

[MS-DACPAC]: Data-Tier Application Schema File Format Structure Specification

Intellectual Property Rights Notice for Open Specifications Documentation

- **Technical Documentation.** Microsoft publishes Open Specifications documentation for protocols, file formats, languages, standards as well as overviews of the interaction among each of these technologies.
- **Copyrights.** This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you may make copies of it in order to develop implementations of the technologies described in the Open Specifications and may distribute portions of it in your implementations using these technologies or your documentation as necessary to properly document the implementation. You may also distribute in your implementation, with or without modification, any schema, IDL's, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications.
- **No Trade Secrets.** Microsoft does not claim any trade secret rights in this documentation.
- **Patents.** Microsoft has patents that may cover your implementations of the technologies described in the Open Specifications. Neither this notice nor Microsoft's delivery of the documentation grants any licenses under those or any other Microsoft patents. However, a given Open Specification may be covered by Microsoft [Open Specification Promise](#) or the [Community Promise](#). If you would prefer a written license, or if the technologies described in the Open Specifications are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting iplg@microsoft.com.
- **Trademarks.** The names of companies and products contained in this documentation may be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights.
- **Fictitious Names.** The example companies, organizations, products, domain names, e-mail addresses, logos, people, places, and events depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

Reservation of Rights. All other rights are reserved, and this notice does not grant any rights other than specifically described above, whether by implication, estoppel, or otherwise.

Tools. The Open Specifications do not require the use of Microsoft programming tools or programming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments you are free to take advantage of them. Certain Open Specifications are intended for use in conjunction with publicly available standard specifications and network programming art, and assumes that the reader either is familiar with the aforementioned material or has immediate access to it.

Revision Summary

Date	Revision History	Revision Class	Comments
06/04/2010	0.1	Major	First release.
09/03/2010	0.1.1	Editorial	Changed language and formatting in the technical content.
02/09/2011	0.2	Minor	Clarified the meaning of the technical content.
07/07/2011	1.0	Major	Significantly changed the technical content.
11/03/2011	2.0	Major	Significantly changed the technical content.

Contents

1	Introduction	5
1.1	Glossary	5
1.2	References	5
1.2.1	Normative References	5
1.2.2	Informative References	6
1.3	Structure Overview	7
1.3.1	Data-Tier Application XML Parts	7
1.3.2	Document Structure	7
1.3.2.1	XML Namespace	7
1.4	Relationship to Protocols and Other Structures	8
1.5	Applicability Statement	8
1.6	Versioning and Localization	8
1.7	Vendor-Extensible Fields	8
2	Structures	9
2.1	Management Model (MM)	9
2.1.1	Instances	9
2.1.2	Reference	11
2.1.3	Key	11
2.1.4	ReferenceKey	12
2.1.5	KeyPatternType	12
2.1.6	InstancesType	12
2.1.7	ReferenceType	12
2.1.8	ReferencesType	13
2.2	Relational Engine (RE)	13
2.2.1	CheckConstraint	13
2.2.2	Column	14
2.2.3	Database	15
2.2.4	DatabaseRole	15
2.2.5	DefaultConstraint	16
2.2.6	DmlTrigger	16
2.2.7	ForeignKeyColumn	17
2.2.8	ForeignKeyConstraint	18
2.2.9	IndexedColumn	18
2.2.10	Login	19
2.2.11	PrimaryKeyConstraint	19
2.2.12	RelationalIndex	19
2.2.13	ScalarParameter	21
2.2.14	ScalarValuedFunction	21
2.2.15	Schema	22
2.2.16	SpatialIndex	22
2.2.17	Statistics	23
2.2.18	StoredProcedure	23
2.2.19	Synonym	24
2.2.20	Table	24
2.2.21	TableParameter	25
2.2.22	TableValuedFunction	25
2.2.23	UniqueConstraint	26
2.2.24	User	26
2.2.25	UserDefinedDataType	27

2.2.26	UserDefinedTableType.....	27
2.2.27	View	28
2.2.28	ActivationOrder	28
2.2.29	BooleanType	28
2.2.30	CompatibilityLevelEnumeration	29
2.2.31	DMLActionEnumeration	29
2.2.32	ExecuteAsEnumeration.....	30
2.2.33	GridDensity.....	30
2.2.34	LoginTypeEnumeration.....	30
2.2.35	PermissionStateEnum	31
2.2.36	PermissionTypeEnum	31
2.2.37	SortOrderEnumeration	33
2.2.38	UserTypeEnumeration	33
2.2.39	FillFactorType.....	33
2.2.40	MaxDopType.....	33
2.2.41	BaseSystemDataType	34
2.2.42	CollationType	34
2.2.43	ComputedColumnType	34
2.2.44	DatabasePermission.....	35
2.2.45	DataType.....	35
2.2.46	ExecutionContextType.....	35
2.2.47	IdentityType	36
2.2.48	Permissions	36
2.2.49	ScalarDataType.....	37
2.2.50	SqlDataType	37
3	Structure Examples	38
3.1	Pubs database (simplified)	38
3.2	Logical object sample	38
3.3	Physical object sample	40
4	Security Considerations.....	43
5	Appendix A: XML Schema	44
5.1	Management Model XML Schema for Version 2009/08	44
5.2	Relational Engine XML Schema for Version 2009/08	47
5.3	Management Model XML Schema for Version 2010/11	58
5.4	Relational Engine XML Schema for Version 2010/11	60
5.5	Management Model XML Schema for Version 2011/03	71
5.6	Relational Engine XML Schema for Version 2011/03	73
6	Appendix B: Product Behavior	127
7	Change Tracking.....	128
8	Index	130

1 Introduction

A data-tier application (DAC) is a self-contained unit for developing, deploying, and managing data-tier objects. A DAC enables data-tier developers and database administrators (DBAs) to package Microsoft® SQL Server® objects, including **database** and instance objects, into a single entity called a DAC package (.dacpac), as specified in [\[MSDN-UNDERDAC\]](#). A DAC package consists of multiple XML parts that represent metadata of the data-tier application and SQL Server object schema.

This document uses XML schema definitions to describe the file format of XML parts in a DAC package. Note that the XML schema [\[XMLSCHEMA1\]](#) definition (**XSD**) in [Appendix A](#) of this document is supplemental to the data portability scenarios that are described in [\[MS-DPDACPAC\]](#).

1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

**database object
XML schema (XSD)**

The following terms are specific to this document:

MIME type: A method that is used by protocol clients to associate files of a certain type with applications that can open or access files of that type.

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as described in [\[RFC2119\]](#). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

References to Microsoft Open Specification documents do not include a publishing year because links are to the latest version of the documents, which are updated frequently. References to other documents include a publishing year when one is available.

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.ietf.org/rfc/rfc2119.txt>

[XML1.0] Bray, T., Paoli, J., Sperberg-McQueen, C.M., and Maler, E., "Extensible Markup Language (XML) 1.0 (Second Edition)", W3C Recommendation, October 2000, <http://www.w3.org/TR/2000/REC-xml-20001006>

[XMLSCHEMA1] Thompson, H.S., Ed., Beech, D., Ed., Maloney, M., Ed., and Mendelsohn, N., Ed., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>

1.2.2 Informative References

- [MS-GLOS] Microsoft Corporation, "[Windows Protocols Master Glossary](#)".
- [MS-DPDPAC] Microsoft Corporation, "[Data-Tier Application Data Portability Overview](#)".
- [MSDN-CDTS] Microsoft Corporation, "Create Database (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms176061\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms176061(v=SQL.105).aspx)
- [MSDN-CFTS] Microsoft Corporation, "Create Function (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms186755\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms186755(v=SQL.105).aspx)
- [MSDN-CHKCNST] Microsoft Corporation, "CHECK constraints", [http://msdn.microsoft.com/en-us/library/ms188258\(SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms188258(SQL.105).aspx)
- [MSDN-CITS] Microsoft Corporation, "Create Index (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms188783\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms188783(v=SQL.105).aspx)
- [MSDN-CLTS] Microsoft Corporation, "Create Login (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms189751\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms189751(v=SQL.105).aspx)
- [MSDN-CNSTS] Microsoft Corporation, "Constraints", [http://msdn.microsoft.com/en-us/library/ms189862\(SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms189862(SQL.105).aspx)
- [MSDN-COLLATE] Microsoft Corporation, "SQL Server Collation Name", [http://msdn.microsoft.com/en-us/library/ms180175\(SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms180175(SQL.105).aspx)
- [MSDN-COLUMNPROPERTY] Microsoft Corporation, "COLUMNPROPERTY (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms174968\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms174968(v=SQL.105).aspx)
- [MSDN-CPRTS] Microsoft Corporation, "Create Procedure (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms187926\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms187926(v=SQL.105).aspx)
- [MSDN-CRTS] Microsoft Corporation, "Create Role (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms187936\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms187936(v=SQL.105).aspx)
- [MSDN-CSTS] Microsoft Corporation, "Create Schema (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms189462\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms189462(v=SQL.105).aspx)
- [MSDN-CTGTS] Microsoft Corporation, "Create Trigger (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms189799\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms189799(v=SQL.105).aspx)
- [MSDN-CTTS] Microsoft Corporation, "Create Table (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms174979\(SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms174979(SQL.105).aspx)
- [MSDN-CTYTS] Microsoft Corporation, "Create Type (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms175007\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms175007(v=SQL.105).aspx)
- [MSDN-CUTS] Microsoft Corporation, "Create User (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms173463\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms173463(v=SQL.105).aspx)
- [MSDN-CVTS] Microsoft Corporation, "Create View (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms187956\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms187956(v=SQL.105).aspx)
- [MSDN-DACAPI] Microsoft Corporation, "Microsoft.SqlServer.Management.DAC Namespace", [http://msdn.microsoft.com/en-us/library/microsoft.sqlserver.management.dac\(SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/microsoft.sqlserver.management.dac(SQL.105).aspx)

[MSDN-DACSUPOB] Microsoft Corporation, "SQL Server Objects Supported in Data-tier Applications", [http://msdn.microsoft.com/en-us/library/ee210549\(SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ee210549(SQL.105).aspx)

[MSDN-DTTS] Microsoft Corporation, "Data Types (Transact-SQL)", <http://msdn.microsoft.com/en-us/library/ms187752.aspx>

[MSDN-EATS] Microsoft Corporation, "Execute As (Transact-SQL)", [http://msdn.microsoft.com/en-us/library/ms181362\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms181362(v=SQL.105).aspx)

[MSDN-TVPDE] Microsoft Corporation, "Table-Valued Parameters (Database Engine)", [http://msdn.microsoft.com/en-us/library/bb510489\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/bb510489(v=SQL.105).aspx)

[MSDN-TVUDF] Microsoft Corporation, "Table-Valued User-Defined Function", [http://msdn.microsoft.com/en-us/library/ms191165\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms191165(v=SQL.105).aspx)

[MSDN-UDTT] Microsoft Corporation, "User-Defined Table Types", [http://msdn.microsoft.com/en-us/library/bb522526\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/bb522526(v=SQL.105).aspx)

[MSDN-UNDERDAC] Microsoft Corporation, "Understanding Data-tier Applications", [http://msdn.microsoft.com/en-us/library/ee240739\(SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ee240739(SQL.105).aspx)

[MSFT-REDACPAC200908] Microsoft Corporation, "Relational Engine XML Schema for Version 2009/08", <http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08>

[MSFT-REDACPAC201111] Microsoft Corporation, "Relational Engine XML Schema for Version 2011/11", <http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2011/11>

[MSFT-REDACPAC201103] Microsoft Corporation, "Relational Engine XML Schema for Version 2013/03", <http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2011/03>

[MSFT-SSPS] Microsoft Corporation, "Microsoft SQL Server Community Projects & Samples", <http://sqlserversamples.codeplex.com/>

1.3 Structure Overview

1.3.1 Data-Tier Application XML Parts

A data-tier application consists of the following two kinds of information to represent database and instance objects:

- **Logical object definition**
- **Physical object definition**

This information is specified in the XML format, as specified in [\[XML1.0\]](#), that complies with the XSD that is specified in this specification.

1.3.2 Document Structure

The root element of a data-tier application XML is an [Instances](#) element. Subelements of the **Instances** element can appear in any order. A collection can have multiple instances of a subelement.

1.3.2.1 XML Namespace

The namespace URIs for a data-tier application XML are:

<http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/yyyy/mm>

<http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/yyyy/mm>

The date component (yyyy/mm) indicates the release date of particular version of data-tier application XML. The standard file name extension for XML parts in a data-tier application is *.xml. The **MIME type** to use for XML files in a data-tier application is text/xml.

1.4 Relationship to Protocols and Other Structures

The data-tier application schema definition in this document supplements the data-portability scenarios that are described in [MS-DPDPAC].

1.5 Applicability Statement

This format is applicable for use as XML parts of a .dacpac file or for use as a user's reference.

1.6 Versioning and Localization

- The XSD version 2009/08 is released in Microsoft® SQL Server® 2008 R2.
- The XSD version 2010/11 is released in the Microsoft® SQL Server® 2008 R2 DAC out-of-band release.
- The XSD version 2011/03 is released in Microsoft® SQL Server® code-named Denali Community Technology Preview 3 (CTP3).
- The XSD versions for [Management Model](#) and [Relational Engine](#) are specified in [Appendix A](#).
- The data-tier application file format contains localization-independent structures.

1.7 Vendor-Extensible Fields

The XML **schema** definition and file structure of a .dacpac file is based on the design and implementation of Microsoft® SQL Server® 2008 R2 Data-Tier Application Framework [[MSDN-DACAPI](#)]. An extension of the XML **schema** in this document can result in unexpected behavior that is not supported by SQL Server 2008 R2 or Microsoft® SQL Server® code-named Denali Community Technology Preview 3 (CTP3).

2 Structures

This section specifies the XML schema model, the [Management Model \(MM\)](#) and [Relation Engine \(RE\) Model](#), of a data-tier application.

2.1 Management Model (MM)

Management Model (MM) is the logical structure definition of a data-tier application instance in XML. **MM** specifies instances of server and database objects. The logical structure and attributes of each server and database object is specified in the [Relational Engine \(RE\)](#) model. **Instance** elements in **MM** are designed to reference **RE** elements.

2.1.1 Instances

MM:Instances is the root element of a data-tier application. The **MM:Instances** element contains the subelements that are listed in the following table.

Subelements
CheckConstraint
Column
Database
DatabaseRole
DefaultConstraint
DmlTrigger
ForeignKeyColumn
ForeignKeyConstraint
IndexedColumn
Login
PrimaryKeyConstraint
RelationalIndex
ScalarParameter
ScalarValuedFunction
Schema
SpatialIndex<1>
Statistics<2>
StoredProcedure
Synonym<3>
Table

Subelements
TableParameter
TableValuedFunction
UniqueConstraint
User
UserDefinedDataType
UserDefinedTableType
View

The following is the XML definition of the **MM:Instances** element for version 2009/08.

```
<xs:element name="Instances"
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08">
  <xs:complexType>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element ref="RE:Database" maxOccurs="1" />
      <xs:element ref="RE:CheckConstraint" />
      <xs:element ref="RE:Column" />
      <xs:element ref="RE:DatabaseRole" />
      <xs:element ref="RE:DefaultConstraint" />
      <xs:element ref="RE:DmlTrigger" />
      <xs:element ref="RE:ForeignKeyColumn" />
      <xs:element ref="RE:ForeignKeyConstraint" />
      <xs:element ref="RE:IndexedColumn" />
      <xs:element ref="RE>Login" />
      <xs:element ref="RE:PrimaryKeyConstraint" />
      <xs:element ref="RE:RelationalIndex" />
      <xs:element ref="RE:ScalarParameter" />
      <xs:element ref="RE:ScalarValuedFunction" />
      <xs:element ref="RE:Schema" />
      <xs:element ref="RE:StoredProcedure" />
      <xs:element ref="RE:Table" />
      <xs:element ref="RE:TableParameter" />
      <xs:element ref="RE:TableValuedFunction" />
      <xs:element ref="RE:UniqueConstraint" />
      <xs:element ref="RE:User" />
      <xs:element ref="RE:UserDefinedDataType" />
      <xs:element ref="RE:UserDefinedTableType" />
      <xs:element ref="RE:View" />
    </xs:choice>
  </xs:complexType>
</xs:element>
```

The following is the XML definition of the **MM:Instances** element for version 2011/03.

```
<xs:element name="Instances"
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2011/03"
```

```

xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2011/03">
  <xs:complexType>
    <!--<xs:sequence>-->
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element ref="RE:Database" maxOccurs="1" />
        <xs:element ref="RE:CheckConstraint" />
        <xs:element ref="RE:Column" />
        <xs:element ref="RE:DatabaseRole" />
        <xs:element ref="RE:DefaultConstraint" />
        <xs:element ref="RE:DmlTrigger" />
        <xs:element ref="RE:ForeignKeyColumn" />
        <xs:element ref="RE:ForeignKeyConstraint" />
        <xs:element ref="RE:IndexedColumn" />
        <xs:element ref="RE:Login" />
        <xs:element ref="RE:PrimaryKeyConstraint" />
        <xs:element ref="RE:RelationalIndex" />
        <xs:element ref="RE:ScalarParameter" />
        <xs:element ref="RE:ScalarValuedFunction" />
        <xs:element ref="RE:Schema" />
        <xs:element ref="RE:SpatialIndex" />
        <xs:element ref="RE:Statistics" />
        <xs:element ref="RE:StoredProcedure" />
        <xs:element ref="RE:Synonym" />
        <xs:element ref="RE:Table" />
        <xs:element ref="RE:TableParameter" />
        <xs:element ref="RE:TableValuedFunction" />
        <xs:element ref="RE:UniqueConstraint" />
        <xs:element ref="RE:User" />
        <xs:element ref="RE:UserDefinedDataType" />
        <xs:element ref="RE:UserDefinedTableType" />
        <xs:element ref="RE:View" />
      </xs:choice>
    <!--</xs:sequence>-->
  </xs:complexType>
</xs:element>

```

2.1.2 Reference

The **MM:Reference** element specifies a referential relationship between two **RE** elements in a data-tier application.

The following is the XML schema definition of the **MM:Reference** element.

```
<xs:element name="Reference" type="MM:ReferenceType" />
```

2.1.3 Key

The **MM:Key** attribute specifies the unique identifier of a **RE** element instance in a data-tier application. All elements that are extended from [InstancesType](#) MUST contain an **MM:Key** attribute.

The following is the XML schema definition of the **MM:Key** attribute.

```
<xs:attribute name="Key" type="MM:KeyPatternType" />
```

2.1.4 ReferenceKey

The **MM:ReferenceKey** attribute specifies the unique identifier of the RE element instance that is referenced by another element in a data-tier application.

The following is the XML schema definition of the **MM:ReferenceKey** attribute.

```
<xs:attribute name="ReferenceKey" type="MM:KeyPatternType" />
```

2.1.5 KeyPatternType

The **MM:KeyPatternType** simple type specifies a regular expression for [MM:Key](#) and [MM:ReferenceKey](#) in a data-tier application.

The following is the XML definition of the **MM:KeyPatternType** simple type.

```
<xs:simpleType name="KeyPatternType">  
  <xs:restriction base="xs:string">  
    <xs:pattern value="(\/.*\[.*\])*" />  
  </xs:restriction>  
</xs:simpleType>
```

2.1.6 InstancesType

The **MM:InstancesType** is a complex type to set the mandatory attributes for all <Instance> elements in a data-tier application.

The following is the XML definition of the **MM:InstancesType** complex type.

```
<xs:complexType name="InstanceType" abstract="true">  
  <xs:attribute ref="MM:Key" use="required"/>  
</xs:complexType>
```

2.1.7 ReferenceType

The **MM:ReferenceType** is a complex type to set the mandatory attributes for all reference elements in a data-tier application.

The following is the XML definition of the **MM:ReferenceType** complex type.

```
<xs:complexType name="ReferenceType">  
  <xs:attribute ref="MM:ReferenceKey" use="required" />  
</xs:complexType>
```

2.1.8 ReferencesType

The **MM:ReferencesType** is a complex type that specifies a collection of multiple reference elements in a data-tier application.

The following is the XML definition of **MM:ReferenceType** complex type.

```
<xs:complexType name="ReferencesType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="unbounded" ref="MM:Reference" />
  </xs:sequence>
</xs:complexType>
```

2.2 Relational Engine (RE)

The **Relational Engine (RE)** model specifies the XML schema of server and database objects and the metadata within a data-tier application.

The following subsections specify the objects supported by the data-tier application.

2.2.1 CheckConstraint

The **RE:CheckConstraint** element specifies the metadata of a check constraint in a data-tier application. For more information, see [\[MSDN-CHKCNST\]](#).

The following is the XML schema definition of the **RE:CheckConstraint** element for version 2009/08 [\[MSFT-DACPACRE200908\]](#).

```
<xs:element name="CheckConstraint">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Text" type="xs:string" />
          <xs:element name="IsChecked" type="RE:BooleanType" />
          <xs:element name="IsEnabled" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

The following is the XML schema definition of the **RE:CheckConstraint** element version 2011/11 [\[MSFT-REDACPAC201111\]](#). This definition adds the **NotForReplication** option property.

```
<xs:element name="CheckConstraint">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

```

    <xs:element name="Name" type="xs:string" />
    <xs:element name="Text" type="xs:string" />
    <xs:element name="IsChecked" type="RE:BooleanType" />
    <xs:element name="IsEnabled" type="RE:BooleanType" />
    <xs:element name="NotForReplication" type="BooleanType" />
  </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

The following is the XML schema definition of the **RE:CheckConstraint** element version 2011/03 [\[MSFT-REDACPAC201103\]](#).

```

<xs:element name="CheckConstraint">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Text" type="xs:string" />
          <xs:element name="IsChecked" type="RE:BooleanType" />
          <xs:element name="IsEnabled" type="RE:BooleanType" />
          <xs:element name="NotForReplication" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.2 Column

The **RE:Column** element specifies the metadata of a table or view column in a data-tier application. For more information, see [\[MSDN-COLUMNPROPERTY\]](#) and [\[MSDN-CTTS\]](#).

The following is the XML schema definition of the **RE:Column** element.

```

<xs:element name="Column">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
          <xs:element name="Nullable" type="RE:BooleanType" />
          <xs:element name="IsColumnSet" type="RE:BooleanType" />
          <xs:element name="IsSparse" type="RE:BooleanType" />
          <xs:element name="RowGuidCol" type="RE:BooleanType" />
          <xs:element name="Collation" type="RE:CollationType" minOccurs="0" />
          <xs:element name="ComputedColumnInfo" type="RE:ComputedColumnType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

```

        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.3 Database

The **RE:Database** element specifies the metadata of a database in a data-tier application. Note that **RE:Database** specifies a subset of attributes that are described in [\[MSDN-CDTS\]](#).

The following is the XML schema definition of the **RE:Database** element.

```

<xs:element name="Database">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Collation" type="RE:CollationType" />
          <xs:element name="CompatibilityLevel" type="RE:CompatibilityLevelEnumeration" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.4 DatabaseRole

The **RE:DatabaseRole** element specifies the metadata of a database role in a data-tier application. For more information, see [\[MSDN-CRTS\]](#).

The following is the XML schema definition of the **RE:DatabaseRole** element for version 2009/08.

```

<xs:element name="DatabaseRole">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Owner" type="MM:ReferenceType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

The following is the XML schema definition of the **RE:DatabaseRole** element for version 2011/03.

```

<xs:element name="DatabaseRole">
  <xs:complexType>

```

```

<xs:complexContent>
  <xs:extension base="MM:InstanceType">
    <xs:all>
      <xs:element name="Parent" type="MM:ReferenceType" />
      <xs:element name="Name" type="xs:string" />
      <xs:element name="Owner" type="MM:ReferenceType" minOccurs="0" />
      <xs:element name="Permissions" type="RE:Permissions" minOccurs="0" />
    </xs:all>
  </xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

2.2.5 DefaultConstraint

The **RE:DefaultConstraint** element specifies the metadata of a default constraint in a data-tier application. For more information, see [\[MSDN-CNSTS\]](#).

The following is the XML schema definition of the **RE:DefaultConstraint** element.

```

<xs:element name="DefaultConstraint">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Text" type="xs:string" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.6 DmlTrigger

The **RE:DmlTrigger** element specifies the metadata of a trigger that is associated with TABLE or VIEW DML statements in a data-tier application. For more information about trigger, see [\[MSDN-CTGTS\]](#).

The following is the XML schema definition of the **RE:DmlTrigger** element for version 2009/08.

```

<xs:element name="DmlTrigger">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="BodyText" type="xs:string" />
          <xs:element name="InsteadOf" type="RE:BooleanType" />
          <xs:element name="IsEncrypted" type="RE:BooleanType" />
          <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```



```

        <xs:element name="NotForReplication" type="RE:BooleanType" />
        <xs:element name="Delete" type="RE:BooleanType" />
        <xs:element name="Insert" type="RE:BooleanType" />
        <xs:element name="Update" type="RE:BooleanType" />
        <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0"
/>
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

The following is the XML schema definition of the **RE:DmlTrigger** element for version 2011/03.

```

<xs:element name="DmlTrigger">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <!-- reference to On {table | view} -->
          <xs:element name="Name" type="xs:string" />
          <xs:element name="BodyText" type="xs:string" />
          <xs:element name="InsteadOf" type="RE:BooleanType" />
          <xs:element name="IsEnabled" type="RE:BooleanType" />
          <xs:element name="IsEncrypted" type="RE:BooleanType" />
          <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
          <xs:element name="NotForReplication" type="RE:BooleanType" />
          <xs:element name="Delete" type="RE:BooleanType" />
          <xs:element name="DeleteActivationOrder" type="RE:ActivationOrder" />
          <xs:element name="Insert" type="RE:BooleanType" />
          <xs:element name="InsertActivationOrder" type="RE:ActivationOrder" />
          <xs:element name="Update" type="RE:BooleanType" />
          <xs:element name="UpdateActivationOrder" type="RE:ActivationOrder" />
          <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0"
/>
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.7 ForeignKeyColumn

The **RE:ForeignKeyColumn** element specifies the metadata of a column that is referenced by a foreign key in a data-tier application. For more information, see [\[MSDN-CNSTS\]](#).

The following is the XML schema definition of the **RE:ForeignKeyColumn** element.

```

<xs:element name="ForeignKeyColumn">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>

```

```

        <xs:element name="ReferencedColumn" type="MM:ReferenceType" />
        <xs:element name="ReferencingColumn" type="MM:ReferenceType" />
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

2.2.8 ForeignKeyConstraint

The **RE:ForeignKeyConstraint** element specifies the metadata of a foreign key in a data-tier application. For more information, see [\[MSDN-CNSTS\]](#).

The following is the XML schema definition of the **RE:ForeignKeyConstraint** element.

```

<xs:element name="ForeignKeyConstraint">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Columns" type="MM:ReferencesType" />
          <xs:element name="ReferencedTable" type="MM:ReferenceType" />
          <xs:element name="IsChecked" type="RE:BooleanType" />
          <xs:element name="IsEnabled" type="RE:BooleanType" />
          <xs:element name="NotForReplication" type="RE:BooleanType" />
          <xs:element name="DeleteAction" type="RE:DMLActionEnumeration" />
          <xs:element name="UpdateAction" type="RE:DMLActionEnumeration" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.9 IndexedColumn

The **RE:IndexedColumn** element specifies the metadata of an indexed column in a data-tier application. For more information, see [\[MSDN-CITS\]](#).

The following is the XML definition of the **RE:IndexedColumn** element.

```

<xs:element name="IndexedColumn">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="ReferencedColumn" type="MM:ReferenceType" />
          <xs:element name="SortOrder" type="RE:SortOrderEnumeration" />
          <xs:element name="IsIncluded" type="xs:string" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

```
</xs:complexType>
</xs:element>
```

2.2.10 Login

The **RE:Login** element specifies the metadata of a login in a data-tier application. For more information, see [\[MSDN-CLTS\]](#). Note that **RE:Login** in data-tier application supports a subset of attributes that are described in [\[MSDN-CLTS\]](#).

The following is the XML schema representation of the **RE:Login** element.

```
<xs:element name="Login">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="LoginType" type="RE:LoginTypeEnum" />
          <xs:element name="Language" type="xs:string" minOccurs="0"/>
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

2.2.11 PrimaryKeyConstraint

The **RE:PrimaryKeyConstraint** element specifies the metadata of a primary key in a data-tier application. For more information, see [\[MSDN-CNSTS\]](#).

The following is the XML schema representation of the **RE:PrimaryKeyConstraint** element.

```
<xs:element name="PrimaryKeyConstraint">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="AssociatedIndex" type="MM:ReferenceType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

2.2.12 RelationalIndex

Applies to DACPAC version [\[MSFT-REDACPAC200908\]](#) and DACPAC version 2011/03 [\[MSFT-REDACPAC201103\]](#)

The **RE:RelationalIndex** element specifies the metadata of an index in a data-tier application. For more information, see [\[MSDN-CITS\]](#).

The following is the XML schema definition of the **RE:RelationalIndex** element for version 2009/08 [MSFT-DACPACRE200908].

```
<xs:element name="RelationalIndex">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="IndexedColumns" type="MM:ReferencesType" />
          <xs:element name="CompactLargeObjects" type="RE:BooleanType" />
          <xs:element name="DisallowPageLocks" type="RE:BooleanType" />
          <xs:element name="DisallowRowLocks" type="RE:BooleanType" />
          <xs:element name="FillFactor" type="RE:FillFactorType" />
          <xs:element name="FilterDefinition" type="xs:string" />
          <xs:element name="IgnoreDuplicateKeys" type="RE:BooleanType" />
          <xs:element name="IndexKey" type="MM:ReferenceType" minOccurs="0" />
          <xs:element name="IsClustered" type="RE:BooleanType" />
          <xs:element name="IsDisabled" type="RE:BooleanType" />
          <xs:element name="IsUnique" type="RE:BooleanType" />
          <xs:element name="MaximumDegreeOfParallelism" type="xs:short" />
          <xs:element name="NoAutomaticRecomputation" type="RE:BooleanType" />
          <xs:element name="OnlineIndexOperation" type="RE:BooleanType" />
          <xs:element name="PadIndex" type="RE:BooleanType" />
          <xs:element name="SortInTempdb" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

The following is the XML schema definition of the **RE:RelationalIndex** element for version 2011/03 [MSFT-REDACPAC201103].

```
<xs:element name="RelationalIndex">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="IndexedColumns" type="MM:ReferencesType" />
          <xs:element name="CompactLargeObjects" type="RE:BooleanType" />
          <xs:element name="DisallowPageLocks" type="RE:BooleanType" />
          <xs:element name="DisallowRowLocks" type="RE:BooleanType" />
          <xs:element name="FillFactor" type="RE:FillFactorType" />
          <xs:element name="FilterDefinition" type="xs:string" />
          <xs:element name="IgnoreDuplicateKeys" type="RE:BooleanType" />
          <xs:element name="IndexKey" type="MM:ReferenceType" minOccurs="0" />
          <xs:element name="IsClustered" type="RE:BooleanType" />
          <xs:element name="IsDisabled" type="RE:BooleanType" />
          <xs:element name="IsUnique" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

```

        <xs:element name="NoAutomaticRecomputation" type="RE:BooleanType" />
        <xs:element name="PadIndex" type="RE:BooleanType" />
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

2.2.13 ScalarParameter

The **RE:ScalarParameter** element specifies the metadata of a function or stored procedure parameter with scalar values in a data-tier application. For more information, refer to parameters in [\[MSDN-CFTS\]](#) or [\[MSDN-CPRTS\]](#).

The following is the XML schema definition of the **RE:ScalarParameter**.

```

<xs:element name="ScalarParameter">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
          <xs:element name="IsOutput" type="RE:BooleanType" />
          <xs:element name="Nullable" type="RE:BooleanType" />
          <xs:element name="DefaultValue" type="xs:string" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.14 ScalarValuedFunction

The **RE:ScalarValuedFunction** element specifies the metadata of a function that returns a scalar value in a data-tier application. For more information on function, see [\[MSDN-CFTS\]](#).

The following is the XML schema definition of the **RE:ScalarValuedFunction** element.

```

<xs:element name="ScalarValuedFunction">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="BodyText" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
          <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
          <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

```

    <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
    <xs:element name="IsSchemaBound" type="RE:BooleanType" />
    <xs:element name="IsSqlClr" type="RE:BooleanType" />
    <xs:element name="Nullable" type="RE:BooleanType" />
    <xs:element name="ReturnsNullOnNullInput" type="RE:BooleanType" />
  </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

2.2.15 Schema

The **RE:Schema** element specifies the metadata of the database schema in a data-tier application. For more information, see [\[MSDN-CSTS\]](#).

The following is the XML schema definition of the **RE:Schema** element.

```

<xs:element name="Schema">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Owner" type="MM:ReferenceType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.16 SpatialIndex

Applies to DACPAC version 2011/03 [\[MSFT-REDACPAC201103\]](#)

The **RE:SpatialIndex** element specifies the metadata of a stored procedure in a data-tier application [<4>](#). For more information, see [\[MSDN-CPRTS\]](#).

The following is the XML schema definition of the **RE: SpatialIndex** element.

```

<xs:element name="SpatialIndex">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="BoundingBoxXMax" type="xs:unsignedInt" />
          <xs:element name="BoundingBoxXMin" type="xs:unsignedInt" />
          <xs:element name="BoundingBoxYMax" type="xs:unsignedInt" />
          <xs:element name="BoundingBoxYMin" type="xs:unsignedInt" />
          <xs:element name="CellsPerObject" type="xs:unsignedInt" />
          <xs:element name="DisallowPageLocks" type="RE:BooleanType" />
          <xs:element name="DisallowRowLocks" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

```

    <xs:element name="FillFactor" type="RE:FillFactorType" />
    <xs:element name="IgnoreDuplicateKeys" type="RE:BooleanType" />
    <xs:element name="IndexedColumn" type="MM:ReferenceType" />
    <xs:element name="IsDisabled" type="RE:BooleanType" />
    <xs:element name="PadIndex" type="RE:BooleanType" />
    <xs:element name="NoAutomaticRecomputation" type="RE:BooleanType" />
    <xs:element name="Level1Density" type="RE:GridDensity" />
    <xs:element name="Level2Density" type="RE:GridDensity" />
    <xs:element name="Level3Density" type="RE:GridDensity" />
    <xs:element name="Level4Density" type="RE:GridDensity" />
    <xs:element name="Name" type="xs:string" />
  </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

2.2.17 Statistics

Applies to DACPAC version 2011/03 [\[MSFT-REDACPAC201103\]](#)

The **RE:Statistics** element specifies the metadata of stored procedure in a data-tier application [<5>](#). For more information, see [\[MSDN-CPRTS\]](#).

The following is the XML schema definition of the **RE:Statistics** element.

```

<xs:element name="Statistics">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Columns" type="MM:ReferencesType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="FilterDefinition" type="xs:string" minOccurs="0" />
          <xs:element name="NoAutomaticRecomputation" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.18 StoredProcedure

The **RE:StoredProcedure** element specifies the metadata of stored procedure in a data-tier application. For more information, see [\[MSDN-CPRTS\]](#).

The following is the XML schema definition of the **RE:StoredProcedure** element.

```

<xs:element name="StoredProcedure">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">

```

```

    <xs:all>
      <xs:element name="Parent" type="MM:ReferenceType" />
      <xs:element name="Name" type="xs:string" />
      <xs:element name="BodyText" type="xs:string" />
      <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
      <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0"
/>

      <xs:element name="ForReplication" type="RE:BooleanType" />
      <xs:element name="IsEncrypted" type="RE:BooleanType" />
      <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
      <xs:element name="IsRecompiled" type="RE:BooleanType" />
      <xs:element name="IsSqlClr" type="RE:BooleanType" />
      <xs:element name="Startup" type="RE:BooleanType" />
    </xs:all>
  </xs:extension>
</xs:complexType>
</xs:complexType>
</xs:element>

```

2.2.19 Synonym

Applies to DACPAC version 2011/03 [\[MSFT-REDACPAC201103\]](#)

The **RE:Synonym** element specifies the metadata of a stored procedure in a data-tier application [<6>](#). For more information, see [\[MSDN-CPRTS\]](#).

The following is the XML schema definition of the **RE:Synonym** element.

```

<xs:element name="Synonym">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="BaseObjectName" type="xs:string" />
          <xs:element name="Name" type="xs:string" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.20 Table

The **RE:Table** element specifies the metadata of a table in a data-tier application. For more information, see [\[MS-CTTS\]](#).

The following is the XML schema definition of the **RE:Table** element.

```

<xs:element name="Table">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>

```



```

        <xs:element name="Parent" type="MM:ReferenceType" />
        <xs:element name="Name" type="xs:string" />
        <xs:element name="Columns" type="MM:ReferencesType" />
        <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

2.2.21 TableParameter

The **RE:TableParameter** element specifies the metadata of a parameter with a table value type in a data-tier application. For more information, see [\[MSDN-TVPDE\]](#).

The following is the XML schema definition of the **RE:TableParameter** element.

```

<xs:element name="TableParameter">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.22 TableValuedFunction

The **RE:TableValueFunction** element specifies the metadata of a function that returns a table value in a data-tier application. For more information, see [\[MSDN-TVUJF\]](#).

The following is the XML schema definition of the **RE:TableValueFunction** element.

```

<xs:element name="TableValuedFunction">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="BodyText" type="xs:string" />
          <xs:element name="Columns" type="MM:ReferencesType" />
          <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
          <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

```

        <xs:element name="IsSqlClr" type="RE:BooleanType" />
        <xs:element name="TableVariableName" type="xs:string" minOccurs="0" />
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

2.2.23 UniqueConstraint

The **RE:UniqueConstraint** element specifies the metadata of a unique constraint in a data-tier application. For more information, see [\[MSDN-CNSTS\]](#).

The following is the XML schema definition of the **RE:UniqueConstraint** element.

```

<xs:element name="UniqueConstraint">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="AssociatedIndex" type="MM:ReferenceType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.24 User

The **RE:User** element specifies the metadata of database user in a data-tier application. For more information, see [\[MSDN-CUTS\]](#).

The following is the XML schema definition of the **RE:User** element for version 2009/08.

```

<xs:element name="User">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="UserType" type="RE:UserTypeEnumeration" />
          <xs:element name="Login" type="MM:ReferenceType" minOccurs="0" />
          <xs:element name="DefaultSchema" type="MM:ReferenceType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="User">
  <xs:complexType>

```

```

<xs:complexContent>
  <xs:extension base="MM:InstanceType">
    <xs:all>
      <xs:element name="Parent" type="MM:ReferenceType" />
      <xs:element name="Name" type="xs:string" />
      <xs:element name="UserType" type="RE:UserTypeEnumeration" />
      <xs:element name="Login" type="MM:ReferenceType" minOccurs="0" />
      <xs:element name="MemberOfRoles" type="MM:ReferenceType" minOccurs="0" />
      <xs:element name="DefaultSchema" type="MM:ReferenceType" minOccurs="0" />
    </xs:all>
  </xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

2.2.25 UserDefinedDataType

The **RE:UserDefinedDataType** element specifies the metadata of a user-defined data type in a data-tier application. For more information, see [\[MSDN-DTTS\]](#) and [\[MSDN-CTYTS\]](#).

The following is the XML schema definition of the **RE:UserDefinedDataType** element.

```

<xs:element name="UserDefinedDataType">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="BaseSystemDataType" type="RE:BaseSystemDataType" />
          <xs:element minOccurs="0" name="Nullable" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.26 UserDefinedTableType

The **RE:UserDefinedTableType** element specifies the metadata of a user-defined table type in a data-tier application. For more information, see [\[MSDN-UDTT\]](#) and [\[MSDN-CTYTS\]](#).

The following is the XML schema definition of the **RE:UserDefinedTableType** element.

```

<xs:element name="UserDefinedTableType">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Columns" type="MM:ReferencesType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

```

    </xs:all>
  </xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

2.2.27 View

The **RE:View** element specifies the metadata of a view in a data-tier application. For more information, see [\[MSDN-CVTS\]](#).

The following is the XML schema definition of the **RE:View** element.

```

<xs:element name="View">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="QueryText" type="xs:string" />
          <xs:element name="Columns" type="MM:ReferencesType" />
          <xs:element name="HasCheckOption" type="RE:BooleanType" />
          <xs:element name="HasColumnSpecification" type="RE:BooleanType" />
          <xs:element name="IsEncrypted" type="RE:BooleanType" />
          <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
          <xs:element name="IsSchemaBound" type="RE:BooleanType" />
          <xs:element name="ReturnsViewMetadata" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

2.2.28 ActivationOrder

Applies to DACPAC version 2011/03 [\[MSFT-REDACPAC201103\]](#)

RE:ActivationOrder is a simple type for a Boolean type in a data-tier application.

The following is the XML schema definition of the **RE:ActivationOrder** simple type.

```

<xs:simpleType name="ActivationOrder">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="First" />
    <xs:enumeration value="Last" />
  </xs:restriction>
</xs:simpleType>

```

2.2.29 BooleanType

RE:BooleanType is a simple type for a Boolean type in a data-tier application.

The following is the XML schema definition of the **RE:BooleanType** simple type.

```
<xs:simpleType name="BooleanType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="True" />
    <xs:enumeration value="False" />
  </xs:restriction>
</xs:simpleType>
```

2.2.30 CompatibilityLevelEnumeration

RE:CompatibilityLevelEnumeration is a simple type that enumerates the database compatibility values in a data-tier application.

The following is the XML schema definition of **RE:CompatibilityLevelEnumeration** for version 2009/08.

```
<xs:simpleType name="CompatibilityLevelEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Version80" />
    <xs:enumeration value="Version90" />
    <xs:enumeration value="Version100" />
    <xs:enumeration value="Current" />
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CompatibilityLevelEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Version80" />
    <xs:enumeration value="Version90" />
    <xs:enumeration value="Version100" />
    <xs:enumeration value="Version110" />
    <xs:enumeration value="Current" />
  </xs:restriction>
</xs:simpleType>
```

2.2.31 DMLActionEnumeration

RE:DMLActionEnumeration is a simple type that enumerates data manipulation language (DML) actions in a data-tier application.

The following is the XML schema definition of the **RE:DMLActionEnumeration** simple type.

```
<xs:simpleType name="DMLActionEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NoAction" />
    <xs:enumeration value="Cascade" />
    <xs:enumeration value="SetNull" />
    <xs:enumeration value="SetDefault" />
  </xs:restriction>
</xs:simpleType>
```

2.2.32 ExecuteAsEnumeration

RE:ExecuteAsEnumeration is a simple type that enumerates "EXECUTE AS" clause values in a data-tier application. For more information, see [\[MSDN-EATS\]](#).

The following is the XML schema definition of the **RE:ExecuteAsEnumeration** simple type for version 2009/08.

```
<xs:simpleType name="ExecuteAsEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Caller" />
    <xs:enumeration value="Self" />
    <xs:enumeration value="Owner" />
    <xs:enumeration value="ExecuteAsUser" />
  </xs:restriction>
</xs:simpleType>
```

The following is the XML schema definition of the **RE:ExecuteAsEnumeration** simple type for version 2011/03.

```
<xs:simpleType name="ExecuteAsEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Caller" />
    <xs:enumeration value="Self" />
    <xs:enumeration value="Owner" />
    <xs:enumeration value="ExecuteAsUser" />
    <xs:enumeration value="ExecuteAsLogin" />
  </xs:restriction>
</xs:simpleType>
```

2.2.33 GridDensity

Applies to DACPAC version 2011/03 [\[MSFT-REDACPAC201103\]](#)

RE:GridDensity is a simple type that enumerates type of logins in a data-tier application [<7>](#). For more information, see [\[MSDN-CLTS\]](#).

The following is the XML schema definition of the **RE:GridDensity** simple type.

```
<xs:simpleType name="GridDensity">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Low" />
    <xs:enumeration value="Medium" />
    <xs:enumeration value="High" />
  </xs:restriction>
</xs:simpleType>
```

2.2.34 LoginTypeEnumeration

RE:LoginTypeEnumeration is a simple type that enumerates type of logins in a data-tier application. For more information, see [\[MSDN-CLTS\]](#).

The following is the XML schema definition of the **RE:LoginTypeEnum** simple type.

```
<xs:simpleType name="LoginTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Sql" />
    <xs:enumeration value="Windows" />
  </xs:restriction>
</xs:simpleType>
```

2.2.35 PermissionStateEnum

Applies to DACPAC version 2011/03 [\[MSFT-REDACPAC201103\]](#)

RE:PermissionStateEnum is a simple type that enumerates type of logins in a data-tier application. For more information, see [\[MSDN-CLTS\]](#).

The following is the XML schema definition of the **RE:PermissionStateEnum** simple type.

```
<xs:simpleType name="PermissionStateEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Deny" />
    <xs:enumeration value="Grant" />
    <xs:enumeration value="GrantWithGrant" />
    <xs:enumeration value="Revoke" />
  </xs:restriction>
</xs:simpleType>
```

2.2.36 PermissionTypeEnum

Applies to DACPAC version 2011/03 [\[MSFT-REDACPAC201103\]](#)

RE:PermissionTypeEnum is a simple type that enumerates type of logins in a data-tier application. For more information, see [\[MSDN-CLTS\]](#).

The following is the XML schema definition of the **RE:PermissionTypeEnum** simple type.

```
<xs:simpleType name="PermissionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Alter" />
    <xs:enumeration value="AlterAnyApplicationRole" />
    <xs:enumeration value="AlterAnyAssembly" />
    <xs:enumeration value="AlterAnyAsymmetricKey" />
    <xs:enumeration value="AlterAnyCertificate" />
    <xs:enumeration value="AlterAnyContract" />
    <xs:enumeration value="AlterAnyDatabaseAudit" />
    <xs:enumeration value="AlterAnyDatabaseDdlTrigger" />
    <xs:enumeration value="AlterAnyDatabaseEventNotification" />
    <xs:enumeration value="AlterAnyDataspaces" />
    <xs:enumeration value="AlterAnyFulltextCatalog" />
    <xs:enumeration value="AlterAnyMessageType" />
    <xs:enumeration value="AlterAnyRemoteServiceBinding" />
    <xs:enumeration value="AlterAnyRole" />
    <xs:enumeration value="AlterAnyRoute" />
  </xs:restriction>
</xs:simpleType>
```

```

<xs:enumeration value="AlterAnySchema" />
<xs:enumeration value="AlterAnyService" />
<xs:enumeration value="AlterAnySymmetricKey" />
<xs:enumeration value="AlterAnyUser" />
<xs:enumeration value="Authenticate" />
<xs:enumeration value="BackupDatabase" />
<xs:enumeration value="BackupLog" />
<xs:enumeration value="Checkpoint" />
<xs:enumeration value="Connect" />
<xs:enumeration value="ConnectReplication" />
<xs:enumeration value="Control" />
<xs:enumeration value="CreateAggregate" />
<xs:enumeration value="CreateAssembly" />
<xs:enumeration value="CreateAsymmetricKey" />
<xs:enumeration value="CreateCertificate" />
<xs:enumeration value="CreateContract" />
<xs:enumeration value="CreateDatabase" />
<xs:enumeration value="CreateDatabaseDdlEventNotification" />
<xs:enumeration value="CreateDefault" />
<xs:enumeration value="CreateFulltextCatalog" />
<xs:enumeration value="CreateFunction" />
<xs:enumeration value="CreateMessageType" />
<xs:enumeration value="CreateProcedure" />
<xs:enumeration value="CreateQueue" />
<xs:enumeration value="CreateRemoteServiceBinding" />
<xs:enumeration value="CreateRole" />
<xs:enumeration value="CreateRoute" />
<xs:enumeration value="CreateRule" />
<xs:enumeration value="CreateSchema" />
<xs:enumeration value="CreateService" />
<xs:enumeration value="CreateSymmetricKey" />
<xs:enumeration value="CreateSynonym" />
<xs:enumeration value="CreateTable" />
<xs:enumeration value="CreateType" />
<xs:enumeration value="CreateView" />
<xs:enumeration value="CreateXmlSchemaCollection" />
<xs:enumeration value="Delete" />
<xs:enumeration value="Execute" />
<xs:enumeration value="Impersonate" />
<xs:enumeration value="Insert" />
<xs:enumeration value="Receive" />
<xs:enumeration value="References" />
<xs:enumeration value="Select" />
<xs:enumeration value="Send" />
<xs:enumeration value="Showplan" />
<xs:enumeration value="SubscribeQueryNotifications" />
<xs:enumeration value="TakeOwnership" />
<xs:enumeration value="Update" />
<xs:enumeration value="ViewChangeTracking" />
<xs:enumeration value="ViewDatabaseState" />
<xs:enumeration value="ViewDefinition" />
</xs:restriction>
</xs:simpleType>

```


2.2.37 SortOrderEnumeration

RE:SortOrderEnumeration is a simple type that enumerates sort-order values in a data-tier application.

The following is the XML schema definition of the **RE:SortOrderEnumeration** simple type.

```
<xs:simpleType name="SortOrderEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Ascending" />
    <xs:enumeration value="Descending" />
  </xs:restriction>
</xs:simpleType>
```

2.2.38 UserTypeEnumeration

Applies to DACPAC XSD version 2009/08 and 2011/03

RE:UserTypeEnumeration is a simple type that enumerates the types of **database** users in a data-tier application.

The following is the XML schema definition of **RE:UserTypeEnumeration** simple type for version 2009/08.

```
<xs:simpleType name="UserTypeEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NoLogin" />
    <xs:enumeration value="SqlLogin" />
  </xs:restriction>
</xs:simpleType>
```

2.2.39 FillFactorType

RE:FillFactorType is a simple type that sets the value range of fill factor in a data-tier application.

The following is the XML schema definition of the **RE:FillFactorType** simple type.

```
<!-- default 0-->
<xs:simpleType name="FillFactorType">
  <xs:restriction base="xs:short">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="100"/>
  </xs:restriction>
</xs:simpleType>
```

2.2.40 MaxDopType

Applies to DACPAC version 2009/08 only [\[MSFT-REDACPAC200908\]](#)

RE:MaxDopType is a simple type that sets the value range of the maximum degree of parallelism in a data-tier application [<8>](#). Note that -1 is used if the maxdop value is not set.

The following is the XML schema definition of the **RE:MaxDopType** simple type.

```
<xs:simpleType name="MaxDopType">
  <xs:restriction base="xs:short">
    <xs:minInclusive value="-1"/>
    <xs:maxInclusive value="64"/>
  </xs:restriction>
</xs:simpleType>
```

2.2.41 BaseSystemDataType

RE:BaseSystemDataType is a complex type for the system data type that is described in [\[MSDN-DTTS\]](#).

The following is the XML schema definition of the **RE:BaseSystemDataType** complex type.

```
<xs:complexType name="BaseSystemDataType">
  <xs:all>
    <xs:element name="SystemDataType" type="RE:SqlDataType" />
  </xs:all>
</xs:complexType>
```

2.2.42 CollationType

RE:CollationType is a complex type definition that specifies the collation value in a data-tier application.

The following is the XML schema definition of the **RE:CollationType** complex type.

```
<xs:complexType name="CollationType">
  <xs:all>
    <xs:element name="Name" type="RE:CollationEnumeration" />
  </xs:all>
</xs:complexType>
```

2.2.43 ComputedColumnType

RE:ComputedColumnType is a complex type that specifies a computed column in a data-tier application.

The following is the XML schema definition of the **RE:ComputedColumnType** complex type.

```
<xs:complexType name="ComputedColumnType">
  <xs:all>
    <xs:element name="Text" type="xs:string" />
    <xs:element name="IsPersisted" type="RE:BooleanType" />
  </xs:all>
</xs:complexType>
```

2.2.44 DatabasePermission

RE:DatabasePermission is a complex type that specifies a computed column in a data-tier application [<9>](#).

The following is the XML schema definition of the **RE:DatabasePermission** complex type.

```
<xs:complexType name="DatabasePermission">
  <xs:all>
    <xs:element name="PermissionState" type="RE:PermissionStateEnum" />
    <xs:element name="PermissionType" type="RE:PermissionTypeEnum" />
    <xs:element name="TargetObject" type="MM:ReferenceType" />
  </xs:all>
</xs:complexType>
```

2.2.45 DataType

Applies to DACPAC version [\[MSFT-DACPACRE200908\]](#) and DACPAC version 2011/03 [\[MSFT-REDACPAC201103\]](#)

RE:DataType is a complex type that specifies all supported data types in a data-tier application.

The following is the XML schema definition of the **RE:DataType** complex type for version 2008/09 [MSFT-DACPACRE200908].

```
<xs:complexType name="DataType">
  <xs:choice minOccurs="1" maxOccurs="1">
    <xs:element name="SystemDataType" type="RE:SqlDataType" />
    <xs:element name="XmlDataType" type="RE:SqlDataType" />
    <xs:element name="ScalarDataType" type="RE:ScalarDataType" />
  </xs:choice>
  <xs:attribute ref="MM:ReferenceKey" use="optional" />
</xs:complexType>
```

The following is the XML schema definition of the **RE:DataType** complex type for 2011/03 [MSFT-REDACPAC201103].

```
<xs:complexType name="DataType">
  <xs:choice minOccurs="1" maxOccurs="1">
    <xs:element name="SystemDataType" type="RE:SqlDataType" />
    <xs:element name="XmlDataType" type="RE:SqlDataType" />
    <xs:element name="SystemCLRDataType" type="RE:SqlDataType" />
    <xs:element name="ScalarDataType" type="RE:ScalarDataType" />
  </xs:choice>
  <xs:attribute ref="MM:ReferenceKey" use="optional" />
</xs:complexType>
```

2.2.46 ExecutionContextType

RE:ExecutionContextType is a complex type that specifies the execution context in the EXECUTE AS clause in a data-tier application.

The following is the XML schema definition of the **RE:ExecutionContextType** complex type.

```
<xs:complexType name="ExecutionContextType">
  <xs:all>
    <xs:element name="ContextType" type="RE:ExecuteAsEnumeration" />
    <xs:element minOccurs="0" name="User" type="MM:ReferenceType" />
  </xs:all>
</xs:complexType>
```

2.2.47 IdentityType

Applies to DACPAC version 2009/08 [\[MSFT-REDACPAC200908\]](#) and **2011/11** [\[MSFT-REDACPAC201111\]](#)

RE:IdentityType is a complex type that specifies the IDENTITY column in a data-tier application.

The following is the [2009/08] XML schema definition of the **RE:IdentityType** complex type [MSFT-REDACPAC200908].

```
<xs:complexType name="IdentityType">
  <xs:sequence>
    <xs:element name="Seed" type="xs:unsignedInt" />
    <xs:element name="Increment" type="xs:unsignedInt" />
  </xs:sequence>
</xs:complexType>
```

The following is the [2011/11] XML schema definition of the **RE:IdentityType** complex type [MSFT-REDACPAC201111]. This definition adds the **NotForReplication** option property.

```
<xs:complexType name="IdentityType">
  <xs:sequence>
    <xs:element name="Seed" type="xs:unsignedInt" />
    <xs:element name="Increment" type="xs:unsignedInt" />
    <xs:element name="NotForReplication" type="xs:BooleanType" />
  </xs:sequence>
</xs:complexType>
```

2.2.48 Permissions

Applies to DACPAC version 2011/03 [\[MSFT-REDACPAC201103\]](#)

RE:Permissions is a complex type that specifies a scalar-valued data type in a data-tier application [<10>](#).

The following is the XML schema definition of the **RE:Permissions** complex type.

```
<xs:complexType name="Permissions">
  <xs:all>
    <xs:element name="DatabasePermission" type="RE:DatabasePermission" />
  </xs:all>
</xs:complexType>
```

2.2.49 ScalarDataType

RE:ScalarDataType is a complex type that specifies a scalar-valued data type in a data-tier application.

The following is the XML schema definition of the **RE:ScalarDataType** complex type.

```
<xs:complexType name="ScalarDataType">
  <xs:all>
    <xs:element name="Name" type="xs:string"/>
  </xs:all>
</xs:complexType>
```

2.2.50 SqlDataType

RE:SqlDataType is a complex type that specifies a common structure of data types in a data-tier application.

The following is the XML schema definition of the **RE:SqlDataType** complex type.

```
<xs:complexType name="SqlDataType">
  <xs:all>
    <xs:element name="Length" type="xs:unsignedByte" />
    <xs:element name="NumericPrecision" type="xs:unsignedByte" />
    <xs:element name="NumericScale" type="xs:unsignedByte" />
    <xs:element name="TypeSpec" type="xs:string" />
  </xs:all>
</xs:complexType>
```

3 Structure Examples

This section provides a sample XML in a data-tier application. A data-tier application consists of logicalobjectstream.xml and physicalobjectstream.xml to specify its management and relational engine model. The following sample consists of a subset of the pubs database to demonstrate the simple usage of a data-tier application. The pubs database can be downloaded from [\[MSFT-SSPS\]](#).

3.1 Pubs database (simplified)

The sample data-tier application XML creates [pubs] database with following objects.

- [pubs] database
- [employee] table in [dbo] schema and its columns
- [empid] user-defined datatype
- PrimaryKey on [emp_id] column
- Default Constraint on [job_id] column

3.2 Logical object sample

```
<?xml version="1.0" encoding="utf-8"?>
<MM:Instances
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08">
  <RE:Database MM:Key="/Database[pubs]">
    <RE:Collation>
      <RE:Name>SQL_Latin1_General_CP1_CI_AS</RE:Name>
    </RE:Collation>
    <RE:CompatibilityLevel>Version100</RE:CompatibilityLevel>
    <RE:Name>pubs</RE:Name>
  </RE:Database>
  <RE:Schema MM:Key="/Database[pubs]/Schema[dbo]">
    <RE:Parent MM:ReferenceKey="/Database[pubs]" />
    <RE:Name>dbo</RE:Name>
    <RE:Owner MM:ReferenceKey="/Database[pubs]/User[dbo]" />
  </RE:Schema>
  <RE:Table MM:Key="/Database[pubs]/Schema[dbo]/Table[employee]">
    <RE:Parent MM:ReferenceKey="/Database[pubs]/Schema[dbo]" />
    <RE:Columns>
      <MM:Reference
MM:ReferenceKey="/Database[pubs]/Schema[dbo]/Table[employee]/Column[emp_id]" />
      <MM:Reference
MM:ReferenceKey="/Database[pubs]/Schema[dbo]/Table[employee]/Column[fname]" />
      <MM:Reference
MM:ReferenceKey="/Database[pubs]/Schema[dbo]/Table[employee]/Column[lname]" />
      <MM:Reference
MM:ReferenceKey="/Database[pubs]/Schema[dbo]/Table[employee]/Column[job_id]" />
    </RE:Columns>
    <RE:IsQuotedIdentifierOn>True</RE:IsQuotedIdentifierOn>
    <RE:Name>employee</RE:Name>
  </RE:Table>
  <RE:UserDefinedDataType MM:Key="/Database[pubs]/Schema[dbo]/UserDefinedDataType[empid]">
    <RE:Parent MM:ReferenceKey="/Database[pubs]/Schema[dbo]" />
  </RE:UserDefinedDataType>
</MM:Instances>
```

```

    <RE:BaseSystemDataType>
      <RE:SystemDataType>
        <RE:Length>9</RE:Length>
        <RE:NumericPrecision>0</RE:NumericPrecision>
        <RE:NumericScale>0</RE:NumericScale>
        <RE:TypeSpec>Char</RE:TypeSpec>
      </RE:SystemDataType>
    </RE:BaseSystemDataType>
    <RE:Name>empid</RE:Name>
    <RE:Nullable>False</RE:Nullable>
  </RE:UserDefinedDataType>
  <RE:Column MM:Key="/Database [pubs] /Schema [dbo] /Table [employee] /Column [emp_id]">
    <RE:Collation>
      <RE:Name>SQL_Latin1_General_CP1_CI_AS</RE:Name>
    </RE:Collation>
    <RE:DataType MM:ReferenceKey="/Database [pubs] /Schema [dbo] /UserDefinedDataType [empid]"
  />

    <RE:IsColumnSet>False</RE:IsColumnSet>
    <RE:IsSparse>False</RE:IsSparse>
    <RE:Name>emp_id</RE:Name>
    <RE:Nullable>False</RE:Nullable>
    <RE:RowGuidCol>False</RE:RowGuidCol>
  </RE:Column>
  <RE:Column MM:Key="/Database [pubs] /Schema [dbo] /Table [employee] /Column [fname]">
    <RE:Collation>
      <RE:Name>SQL_Latin1_General_CP1_CI_AS</RE:Name>
    </RE:Collation>
    <RE:DataType>
      <RE:SystemDataType>
        <RE:Length>20</RE:Length>
        <RE:NumericPrecision>0</RE:NumericPrecision>
        <RE:NumericScale>0</RE:NumericScale>
        <RE:TypeSpec>VarChar</RE:TypeSpec>
      </RE:SystemDataType>
    </RE:DataType>
    <RE:IsColumnSet>False</RE:IsColumnSet>
    <RE:IsSparse>False</RE:IsSparse>
    <RE:Name>fname</RE:Name>
    <RE:Nullable>False</RE:Nullable>
    <RE:RowGuidCol>False</RE:RowGuidCol>
  </RE:Column>
  <RE:Column MM:Key="/Database [pubs] /Schema [dbo] /Table [employee] /Column [lname]">
    <RE:Collation>
      <RE:Name>SQL_Latin1_General_CP1_CI_AS</RE:Name>
    </RE:Collation>
    <RE:DataType>
      <RE:SystemDataType>
        <RE:Length>30</RE:Length>
        <RE:NumericPrecision>0</RE:NumericPrecision>
        <RE:NumericScale>0</RE:NumericScale>
        <RE:TypeSpec>VarChar</RE:TypeSpec>
      </RE:SystemDataType>
    </RE:DataType>
    <RE:IsColumnSet>False</RE:IsColumnSet>
    <RE:IsSparse>False</RE:IsSparse>
    <RE:Name>lname</RE:Name>
    <RE:Nullable>False</RE:Nullable>
    <RE:RowGuidCol>False</RE:RowGuidCol>
  </RE:Column>

```

```

<RE:Column MM:Key="/Database[pubs]/Schema[dbo]/Table[employee]/Column[job_id]">
  <RE:DataType>
    <RE:SystemDataType>
      <RE:Length>0</RE:Length>
      <RE:NumericPrecision>0</RE:NumericPrecision>
      <RE:NumericScale>0</RE:NumericScale>
      <RE:TypeSpec>SmallInt</RE:TypeSpec>
    </RE:SystemDataType>
  </RE:DataType>
  <RE:DefaultValue>
MM:ReferenceKey="/Database[pubs]/Schema[dbo]/Table[employee]/Column[job_id]/DefaultConstraint
[DF_job_id]" />
    <RE:IsColumnSet>False</RE:IsColumnSet>
    <RE:IsSparse>False</RE:IsSparse>
    <RE:Name>job_id</RE:Name>
    <RE:Nullable>False</RE:Nullable>
    <RE:RowGuidCol>False</RE:RowGuidCol>
  </RE:Column>
<RE:CheckConstraint
MM:Key="/Database[pubs]/Schema[dbo]/Table[employee]/CheckConstraint[CK_emp_id]">
  <RE:Parent MM:ReferenceKey="/Database[pubs]/Schema[dbo]/Table[employee]" />
  <RE:IsChecked>True</RE:IsChecked>
  <RE:IsEnabled>True</RE:IsEnabled>
  <RE:Name>CK_emp_id</RE:Name>
  <RE:Text>([emp_id] like '[A-Z][A-Z][A-Z][1-9][0-9][0-9][0-9][0-9][FM]' OR [emp_id]
like '[A-Z]-[A-Z][1-9][0-9][0-9][0-9][0-9][FM]')</RE:Text>
</RE:CheckConstraint>
<RE:PrimaryKeyConstraint
MM:Key="/Database[pubs]/Schema[dbo]/Table[employee]/PrimaryKeyConstraint[PK_emp_id]">
  <RE:Parent MM:ReferenceKey="/Database[pubs]/Schema[dbo]/Table[employee]" />
  <RE:AssociatedIndex>
MM:ReferenceKey="/Database[pubs]/Schema[dbo]/Table[employee]/RelationalIndex[PK_emp_id]" />
    <RE:Name>PK_emp_id</RE:Name>
  </RE:PrimaryKeyConstraint>
  <RE:DefaultConstraint>
MM:Key="/Database[pubs]/Schema[dbo]/Table[employee]/Column[job_id]/DefaultConstraint[DF_job_i
d]">
    <RE:Name>DF_job_id</RE:Name>
    <RE:Text>(1)</RE:Text>
  </RE:DefaultConstraint>
</MM:Instances>

```

3.3 Physical object sample

```

<?xml version="1.0" encoding="utf-8"?>
<MM:Instances
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08">
  <RE:RelationalIndex
MM:Key="/Database[pubs]/Schema[dbo]/Table[employee]/RelationalIndex[employee_ind]">
    <RE:Parent MM:ReferenceKey="/Database[pubs]/Schema[dbo]/Table[employee]" />
    <RE:CompactLargeObjects>True</RE:CompactLargeObjects>
    <RE:DisallowPageLocks>False</RE:DisallowPageLocks>
    <RE:DisallowRowLocks>False</RE:DisallowRowLocks>
    <RE:FillFactor>0</RE:FillFactor>
    <RE:FilterDefinition></RE:FilterDefinition>
    <RE:IgnoreDuplicateKeys>False</RE:IgnoreDuplicateKeys>

```



```

    <RE:IndexedColumns>
      <MM:Reference
MM:ReferenceKey="/Database [pubs] /Schema [dbo] /Table [employee] /RelationalIndex [employee_ind] /In
dexedColumn [lname] " />
      <MM:Reference
MM:ReferenceKey="/Database [pubs] /Schema [dbo] /Table [employee] /RelationalIndex [employee_ind] /In
dexedColumn [fname] " />
    </RE:IndexedColumns>
    <RE:IsClustered>True</RE:IsClustered>
    <RE:IsDisabled>False</RE:IsDisabled>
    <RE:IsUnique>False</RE:IsUnique>
    <RE:MaximumDegreeOfParallelism>-1</RE:MaximumDegreeOfParallelism>
    <RE:Name>employee_ind</RE:Name>
    <RE:NoAutomaticRecomputation>False</RE:NoAutomaticRecomputation>
    <RE:OnlineIndexOperation>False</RE:OnlineIndexOperation>
    <RE:PadIndex>False</RE:PadIndex>
    <RE:SortInTempdb>False</RE:SortInTempdb>
  </RE:RelationalIndex>
  <RE:RelationalIndex
MM:Key="/Database [pubs] /Schema [dbo] /Table [employee] /RelationalIndex [PK_emp_id] ">
    <RE:Parent MM:ReferenceKey="/Database [pubs] /Schema [dbo] /Table [employee] " />
    <RE:CompactLargeObjects>True</RE:CompactLargeObjects>
    <RE:DisallowPageLocks>False</RE:DisallowPageLocks>
    <RE:DisallowRowLocks>False</RE:DisallowRowLocks>
    <RE:FillFactor>0</RE:FillFactor>
    <RE:FilterDefinition></RE:FilterDefinition>
    <RE:IgnoreDuplicateKeys>False</RE:IgnoreDuplicateKeys>
    <RE:IndexKey
MM:ReferenceKey="/Database [pubs] /Schema [dbo] /Table [employee] /PrimaryKeyConstraint [PK_emp_id] "
/>
    <RE:IndexedColumns>
      <MM:Reference
MM:ReferenceKey="/Database [pubs] /Schema [dbo] /Table [employee] /RelationalIndex [PK_emp_id] /Index
edColumn [emp_id] " />
    </RE:IndexedColumns>
    <RE:IsClustered>False</RE:IsClustered>
    <RE:IsDisabled>False</RE:IsDisabled>
    <RE:IsUnique>True</RE:IsUnique>
    <RE:MaximumDegreeOfParallelism>-1</RE:MaximumDegreeOfParallelism>
    <RE:Name>PK_emp_id</RE:Name>
    <RE:NoAutomaticRecomputation>False</RE:NoAutomaticRecomputation>
    <RE:OnlineIndexOperation>False</RE:OnlineIndexOperation>
    <RE:PadIndex>False</RE:PadIndex>
    <RE:SortInTempdb>False</RE:SortInTempdb>
  </RE:RelationalIndex>
  <RE:IndexedColumn
MM:Key="/Database [pubs] /Schema [dbo] /Table [employee] /RelationalIndex [employee_ind] /IndexedColu
mn [lname] ">
    <RE:IsIncluded>False</RE:IsIncluded>
    <RE:ReferencedColumn
MM:ReferenceKey="/Database [pubs] /Schema [dbo] /Table [employee] /Column [lname] " />
    <RE:SortOrder>Ascending</RE:SortOrder>
  </RE:IndexedColumn>
  <RE:IndexedColumn
MM:Key="/Database [pubs] /Schema [dbo] /Table [employee] /RelationalIndex [employee_ind] /IndexedColu
mn [fname] ">
    <RE:IsIncluded>False</RE:IsIncluded>
    <RE:ReferencedColumn
MM:ReferenceKey="/Database [pubs] /Schema [dbo] /Table [employee] /Column [fname] " />
    <RE:SortOrder>Ascending</RE:SortOrder>

```

```
</RE:IndexedColumn>
<RE:IndexedColumn
MM:Key="/Database[pubs]/Schema[dbo]/Table[employee]/RelationalIndex[PK_emp_id]/IndexedColumn[
emp_id]">
  <RE:IsIncluded>False</RE:IsIncluded>
  <RE:ReferencedColumn
MM:ReferenceKey="/Database[pubs]/Schema[dbo]/Table[employee]/Column[emp_id]" />
  <RE:SortOrder>Ascending</RE:SortOrder>
</RE:IndexedColumn>
</MM:Instances>
```

4 Security Considerations

None.

5 Appendix A: XML Schema

For ease of implementation, full XML schemas are provided in the following sections.

Schema name	Prefix	Section
Management Model XML Schema for Version 2009/08	xs:	5.1
Relational Engine XML Schema for Version 2009/08	xs:	5.2
Management Model XML Schema for Version 2011/11	xs:	5.3
Relational Engine XML Schema for Version 2011/11	xs:	5.4
Management Model XML Schema for Version 2011/03	xs:	5.5
Relational Engine XML Schema for Version 2011/03	xs:	5.6

5.1 Management Model XML Schema for Version 2009/08

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
  xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08"
  attributeFormDefault="unqualified" elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
```

Microsoft does not make any representation or warranty regarding the schema or any product or item developed based on the schema. The schema is provided to you on an AS IS basis. Microsoft disclaims all express, implied and statutory warranties, including but not limited to the implied warranties of merchantability, fitness for a particular purpose, and freedom from infringement. Without limiting the generality of the foregoing, Microsoft does not make any warranty of any kind that any item developed based on the schema, or any portion of the schema, will not infringe any copyright, patent, trade secret, or other intellectual property right of any person or entity in any country. It is your responsibility to seek licenses for such intellectual property rights where appropriate.

MICROSOFT SHALL NOT BE LIABLE FOR ANY DAMAGES OF ANY KIND ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE SCHEMA, INCLUDING WITHOUT LIMITATION, ANY DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL (INCLUDING ANY LOST PROFITS), PUNITIVE OR SPECIAL DAMAGES, WHETHER OR NOT MICROSOFT HAS BEEN ADVISED OF SUCH DAMAGES.

(c) Microsoft Corporation. All rights reserved.

```
    </xsd:documentation>
  </xsd:annotation>
  <xs:import
    namespace="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08" />
  <!-- Management Model simpleTypes -->
  <xs:simpleType name="KeyPatternType">
    <xs:restriction base="xs:string">
```

```

        <xs:pattern value="(\/.*\[.*\])*" />
    </xs:restriction>
</xs:simpleType>
<!-- Management Model complexTypes -->
<xs:complexType name="InstanceType" abstract="true">
    <xs:attribute ref="MM:Key" use="required"/>
</xs:complexType>
<xs:complexType name="ReferenceType">
    <xs:attribute ref="MM:ReferenceKey" use="required" />
</xs:complexType>
<xs:complexType name="ReferencesType">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="unbounded" ref="MM:Reference" />
    </xs:sequence>
</xs:complexType>
<!-- Management Model attributes-->
<xs:attribute name="Key" type="MM:KeyPatternType" />
<xs:attribute name="ReferenceKey" type="MM:KeyPatternType" />
<!-- Management Model Elements -->
<!--<xs:element name="Instance" type="MM:InstanceType"/>-->
<xs:element name="Instances"
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08">
    <xs:complexType>
        <!--<xs:sequence>-->
        <xs:choice minOccurs="0" maxOccurs="unbounded">
            <xs:element ref="RE:Database" maxOccurs="1" />
            <xs:element ref="RE:CheckConstraint" />
            <xs:element ref="RE:Column" />
            <xs:element ref="RE:DatabaseRole" />
            <xs:element ref="RE:DefaultConstraint" />
            <xs:element ref="RE:DmlTrigger" />
            <xs:element ref="RE:ForeignKeyColumn" />
            <xs:element ref="RE:ForeignKeyConstraint" />
            <xs:element ref="RE:IndexedColumn" />
            <xs:element ref="RE>Login" />
            <xs:element ref="RE:PrimaryKeyConstraint" />
            <xs:element ref="RE:RelationalIndex" />
            <xs:element ref="RE:ScalarParameter" />
            <xs:element ref="RE:ScalarValuedFunction" />
            <xs:element ref="RE:Schema" />
            <xs:element ref="RE:StoredProcedure" />
            <xs:element ref="RE:Table" />
            <xs:element ref="RE:TableParameter" />
            <xs:element ref="RE:TableValuedFunction" />
            <xs:element ref="RE:UniqueConstraint" />
            <xs:element ref="RE:User" />
            <xs:element ref="RE:UserDefinedDataType" />
            <xs:element ref="RE:UserDefinedTableType" />
            <xs:element ref="RE:View" />
        </xs:choice>
        <!--</xs:sequence>-->
    </xs:complexType>
</xs:element><xs:element name="Reference" type="MM:ReferenceType" />
</xs:schema>

<?xml version="1.0" encoding="utf-8"?>

```

```

<xs:schema
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08"
attributeFormDefault="unqualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

```

Microsoft does not make any representation or warranty regarding the schema or any product or item developed based on the schema. The schema is provided to you on an AS IS basis. Microsoft disclaims all express, implied and statutory warranties, including but not limited to the implied warranties of merchantability, fitness for a particular purpose, and freedom from infringement. Without limiting the generality of the foregoing, Microsoft does not make any warranty of any kind that any item developed based on the schema, or any portion of the schema, will not infringe any copyright, patent, trade secret, or other intellectual property right of any person or entity in any country. It is your responsibility to seek licenses for such intellectual property rights where appropriate.

MICROSOFT SHALL NOT BE LIABLE FOR ANY DAMAGES OF ANY KIND ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE SCHEMA, INCLUDING WITHOUT LIMITATION, ANY DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL (INCLUDING ANY LOST PROFITS), PUNITIVE OR SPECIAL DAMAGES, WHETHER OR NOT MICROSOFT HAS BEEN ADVISED OF SUCH DAMAGES.

(c) Microsoft Corporation. All rights reserved.

```

  </xsd:documentation>
</xsd:annotation>
<xs:import
namespace="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08" />
<!-- Management Model simpleTypes -->
<xs:simpleType name="KeyPatternType">
  <xs:restriction base="xs:string">
    <xs:pattern value="(\\.*\\[.*\\])*" />
  </xs:restriction>
</xs:simpleType>
<!-- Management Model complexTypes -->
<xs:complexType name="InstanceType" abstract="true">
  <xs:attribute ref="MM:Key" use="required"/>
</xs:complexType>
<xs:complexType name="ReferenceType">
  <xs:attribute ref="MM:ReferenceKey" use="required" />
</xs:complexType>
<xs:complexType name="ReferencesType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="unbounded" ref="MM:Reference" />
  </xs:sequence>
</xs:complexType>
<!-- Management Model attributes-->
<xs:attribute name="Key" type="MM:KeyPatternType" />
<xs:attribute name="ReferenceKey" type="MM:KeyPatternType" />
<!-- Management Model Elements -->
<xs:element name="Instances"
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08">
  <xs:complexType>
    <!--<xs:sequence-->

```

```

<xs:choice minOccurs="0" maxOccurs="unbounded">
  <xs:element ref="RE:Database" maxOccurs="1" />
  <xs:element ref="RE:CheckConstraint" />
  <xs:element ref="RE:Column" />
  <xs:element ref="RE:DatabaseRole" />
  <xs:element ref="RE:DefaultConstraint" />
  <xs:element ref="RE:DmlTrigger" />
  <xs:element ref="RE:ForeignKeyColumn" />
  <xs:element ref="RE:ForeignKeyConstraint" />
  <xs:element ref="RE:IndexedColumn" />
  <xs:element ref="RE:Login" />
  <xs:element ref="RE:PrimaryKeyConstraint" />
  <xs:element ref="RE:RelationalIndex" />
  <xs:element ref="RE:ScalarParameter" />
  <xs:element ref="RE:ScalarValuedFunction" />
  <xs:element ref="RE:Schema" />
  <xs:element ref="RE:StoredProcedure" />
  <xs:element ref="RE:Table" />
  <xs:element ref="RE:TableParameter" />
  <xs:element ref="RE:TableValuedFunction" />
  <xs:element ref="RE:UniqueConstraint" />
  <xs:element ref="RE:User" />
  <xs:element ref="RE:UserDefinedDataType" />
  <xs:element ref="RE:UserDefinedTableType" />
  <xs:element ref="RE:View" />
</xs:choice>
<!--</xs:sequence-->
</xs:complexType>
</xs:element><xs:element name="Reference" type="MM:ReferenceType" />
</xs:schema>

```

5.2 Relational Engine XML Schema for Version 2009/08

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08"
  xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
  attributeFormDefault="unqualified" elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:annotation>
    <xs:documentation>
      THE SCHEMA IS PROVIDED TO YOU ON AN "AS IS" BASIS, AND MICROSOFT
      DISCLAIMS ALL WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING,
      WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS
      FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT, AS TO THE SCHEMA OR ANY
      PRODUCT OR OTHER ITEM THAT MAY BE DEVELOPED USING THE SCHEMA.

      Without limiting the generality of the foregoing, Microsoft makes no
      warranty that any product or other item that may be developed using the
      schema, or any portion of the schema, will not infringe any copyright,
      patent, trade secret or other intellectual property right of any
      individual or legal entity in any country. It is your responsibility to
      obtain licenses to use any such intellectual property rights as appropriate.

      MICROSOFT IS NOT LIABLE FOR ANY DAMAGES OF ANY KIND ARISING OUT OF OR IN
      CONNECTION WITH THE USE OF THE SCHEMA, INCLUDING, WITHOUT LIMITATION, ANY

```

DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST REVENUES OR LOST PROFITS), PUNITIVE OR SPECIAL DAMAGES, WHETHER OR NOT MICROSOFT HAS BEEN ADVISED OF SUCH DAMAGES.

(c) Microsoft Corporation. All rights reserved.

```
</xs:documentation>
</xs:annotation>
<xs:import
namespace="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08" />
<!--Relational model simple types: alphabetical order-->
<xs:simpleType name="BooleanType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="True" />
    <xs:enumeration value="False" />
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CompatibilityLevelEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Version80" />
    <xs:enumeration value="Version90" />
    <xs:enumeration value="Version100" />
    <xs:enumeration value="Current" />
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="DMLActionEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NoAction" />
    <xs:enumeration value="Cascade" />
    <xs:enumeration value="SetNull" />
    <xs:enumeration value="SetDefault" />
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ExecuteAsEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Caller" />
    <xs:enumeration value="Self" />
    <xs:enumeration value="Owner" />
    <xs:enumeration value="ExecuteAsUser" />
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="LoginTypeEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Sql" />
    <xs:enumeration value="Windows" />
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="SortOrderEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Ascending" />
    <xs:enumeration value="Descending" />
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="UserTypeEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NoLogin" />
    <xs:enumeration value="SqlLogin" />
  </xs:restriction>
</xs:simpleType>
<!-- default 0-->
```



```

<xs:simpleType name="FillFactorType">
  <xs:restriction base="xs:short">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="100"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="MaxDopType">
  <xs:restriction base="xs:short">
    <xs:minInclusive value="-1"/>
    <xs:maxInclusive value="64"/>
  </xs:restriction>
</xs:simpleType>
<!-- Relational model complex types: alphabetical order-->
<xs:complexType name="BaseSystemDataType">
  <xs:all>
    <xs:element name="SystemDataType" type="RE:SqlDataType" />
  </xs:all>
</xs:complexType>
<xs:complexType name="CollationType">
  <xs:all>
    <xs:element name="Name" type="RE:CollationEnumeration" />
  </xs:all>
</xs:complexType>
<xs:complexType name="ComputedColumnType">
  <xs:all>
    <xs:element name="Text" type="xs:string" />
    <xs:element name="IsPersisted" type="RE:BooleanType" />
  </xs:all>
</xs:complexType>
<xs:complexType name="DataType">
  <xs:sequence minOccurs="0" maxOccurs="1">
    <xs:choice minOccurs="1" maxOccurs="1">
      <xs:element name="SystemDataType" type="RE:SqlDataType" />
      <xs:element name="XmlDataType" type="RE:SqlDataType" />
      <xs:element name="ScalarDataType" type="RE:ScalarDataType" />
    </xs:choice>
  </xs:sequence>
  <xs:attribute ref="MM:ReferenceKey" use="optional" />
</xs:complexType>
<xs:complexType name="ExecutionContextType">
  <xs:all>
    <xs:element name="ContextType" type="RE:ExecuteAsEnumeration" />
    <xs:element minOccurs="0" name="User" type="MM:ReferenceType" />
  </xs:all>
</xs:complexType>
<xs:complexType name="IdentityType">
  <xs:sequence>
    <xs:element name="Seed" type="xs:unsignedInt" />
    <xs:element name="Increment" type="xs:unsignedInt" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ScalarDataType">
  <xs:all>
    <xs:element name="Name" type="xs:string"/>
  </xs:all>
</xs:complexType>
<xs:complexType name="SqlDataType">
  <xs:all>
    <xs:element name="Length" type="xs:unsignedByte" />
  </xs:all>
</xs:complexType>

```

```

    <xs:element name="NumericPrecision" type="xs:unsignedByte" />
    <xs:element name="NumericScale" type="xs:unsignedByte" />
    <xs:element name="TypeSpec" type="xs:string" />
  </xs:all>
</xs:complexType>
<!--Relational model elements: alphabetical order-->
<xs:element name="CheckConstraint">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Text" type="xs:string" />
          <xs:element name="IsChecked" type="RE:BooleanType" />
          <xs:element name="IsEnabled" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="Column">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
          <xs:element name="Nullable" type="RE:BooleanType" />
          <xs:element name="IsColumnSet" type="RE:BooleanType" />
          <xs:element name="IsSparse" type="RE:BooleanType" />
          <xs:element name="RowGuidCol" type="RE:BooleanType" />
          <xs:element name="Collation" type="RE:CollationType" minOccurs="0" />
          <xs:element name="ComputedColumnInfo" type="RE:ComputedColumnType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="Database">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Collation" type="RE:CollationType" />
          <xs:element name="CompatibilityLevel" type="RE:CompatibilityLevelEnumeration" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="DatabaseRole">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">

```

```

        <xs:all>
            <xs:element name="Parent" type="MM:ReferenceType" />
            <xs:element name="Name" type="xs:string" />
            <xs:element name="Owner" type="MM:ReferenceType" minOccurs="0" />
        </xs:all>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="DefaultConstraint">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Text" type="xs:string" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="DmlTrigger">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <!-- reference to On {table | view} -->
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="BodyText" type="xs:string" />
                    <xs:element name="InsteadOf" type="RE:BooleanType" />
                    <xs:element name="IsEncrypted" type="RE:BooleanType" />
                    <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
                    <xs:element name="NotForReplication" type="RE:BooleanType" />
                    <xs:element name="Delete" type="RE:BooleanType" />
                    <xs:element name="Insert" type="RE:BooleanType" />
                    <xs:element name="Update" type="RE:BooleanType" />
                    <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="ForeignKeyColumn">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="ReferencedColumn" type="MM:ReferenceType" />
                    <xs:element name="ReferencingColumn" type="MM:ReferenceType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="ForeignKeyConstraint">
    <xs:complexType>
        <xs:complexContent>

```

```

<xs:extension base="MM:InstanceType">
  <xs:all>
    <xs:element name="Parent" type="MM:ReferenceType" />
    <xs:element name="Name" type="xs:string" />
    <xs:element name="Columns" type="MM:ReferencesType" />
    <xs:element name="ReferencedTable" type="MM:ReferenceType" />
    <xs:element name="IsChecked" type="RE:BooleanType" />
    <xs:element name="IsEnabled" type="RE:BooleanType" />
    <xs:element name="NotForReplication" type="RE:BooleanType" />
    <xs:element name="DeleteAction" type="RE:DMLActionEnumeration" />
    <xs:element name="UpdateAction" type="RE:DMLActionEnumeration" />
  </xs:all>
</xs:extension>
</xs:complexType>
</xs:complexType>
</xs:element>
<xs:element name="IndexedColumn">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="ReferencedColumn" type="MM:ReferenceType" />
          <xs:element name="SortOrder" type="RE:SortOrderEnumeration" />
          <xs:element name="IsIncluded" type="xs:string" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="Login">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="LoginType" type="RE>LoginTypeEnumeration" />
          <xs:element name="Language" type="xs:string" minOccurs="0"/>
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="PrimaryKeyConstraint">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="AssociatedIndex" type="MM:ReferenceType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="RelationalIndex">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">

```

```

<xs:all>
  <xs:element name="Parent" type="MM:ReferenceType" />
  <xs:element name="Name" type="xs:string" />
  <xs:element name="IndexedColumns" type="MM:ReferencesType" />
  <xs:element name="CompactLargeObjects" type="RE:BooleanType" />
  <xs:element name="DisallowPageLocks" type="RE:BooleanType" />
  <xs:element name="DisallowRowLocks" type="RE:BooleanType" />
  <xs:element name="FillFactor" type="RE:FillFactorType" />
  <xs:element name="FilterDefinition" type="xs:string" />
  <xs:element name="IgnoreDuplicateKeys" type="RE:BooleanType" />
  <xs:element name="IndexKey" type="MM:ReferenceType" minOccurs="0" />
  <xs:element name="IsClustered" type="RE:BooleanType" />
  <xs:element name="IsDisabled" type="RE:BooleanType" />
  <xs:element name="IsUnique" type="RE:BooleanType" />
  <xs:element name="MaximumDegreeOfParallelism" type="xs:short" />
  <xs:element name="NoAutomaticRecomputation" type="RE:BooleanType" />
  <xs:element name="OnlineIndexOperation" type="RE:BooleanType" />
  <xs:element name="PadIndex" type="RE:BooleanType" />
  <xs:element name="SortInTempdb" type="RE:BooleanType" />
</xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="ScalarParameter">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
          <xs:element name="IsOutput" type="RE:BooleanType" />
          <xs:element name="Nullable" type="RE:BooleanType" />
          <xs:element name="DefaultValue" type="xs:string" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="ScalarValuedFunction">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="BodyText" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
          <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
          <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="IsEncrypted" type="RE:BooleanType" />
<xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
<xs:element name="IsSchemaBound" type="RE:BooleanType" />
<xs:element name="IsSqlClr" type="RE:BooleanType" />
<xs:element name="Nullable" type="RE:BooleanType" />
<xs:element name="ReturnsNullOnNullInput" type="RE:BooleanType" />
</xs:all>
</xs:extension>

```

```

        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="Schema">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Owner" type="MM:ReferenceType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="StoredProcedure">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="BodyText" type="xs:string" />
                    <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
                    <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="Table">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Columns" type="MM:ReferencesType" />
                    <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="TableParameter">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="DataType" type="RE:DataType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

```

```

        </xs:all>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="TableValuedFunction">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="BodyText" type="xs:string" />
                    <xs:element name="Columns" type="MM:ReferencesType" />
                    <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
                    <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="UniqueConstraint">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="AssociatedIndex" type="MM:ReferenceType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="User">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="UserType" type="RE:UserTypeEnumeration" />
                    <xs:element name="Login" type="MM:ReferenceType" minOccurs="0" />
                    <xs:element name="DefaultSchema" type="MM:ReferenceType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="UserDefinedDataType">
    <xs:complexType>
        <xs:complexContent>

```

```

<xs:extension base="MM:InstanceType">
  <xs:all>
    <xs:element name="Parent" type="MM:ReferenceType" />
    <xs:element name="Name" type="xs:string" />
    <xs:element name="BaseSystemDataType" type="RE:BaseSystemDataType" />
    <xs:element minOccurs="0" name="Nullable" type="RE:BooleanType" />
  </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="UserDefinedTableType">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Columns" type="MM:ReferencesType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="View">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="QueryText" type="xs:string" />
          <xs:element name="Columns" type="MM:ReferencesType" />
          <xs:element name="HasCheckOption" type="RE:BooleanType" />
          <xs:element name="HasColumnSpecification" type="RE:BooleanType" />
          <xs:element name="IsEncrypted" type="RE:BooleanType" />
          <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
          <xs:element name="IsSchemaBound" type="RE:BooleanType" />
          <xs:element name="ReturnsViewMetadata" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:simpleType name="CollationEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="SQL_Latin1_General_CP437_BIN" />
    <xs:enumeration value="SQL_Latin1_General_CP437_CS_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP437_CI_AS" />
    <xs:enumeration value="SQL_Latin1_General_Pref_CP437_CI_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP437_CI_AI" />
    <xs:enumeration value="SQL_Latin1_General_CP850_BIN" />
    <xs:enumeration value="SQL_Latin1_General_CP850_CS_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP850_CI_AS" />
    <xs:enumeration value="SQL_Latin1_General_Pref_CP850_CI_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP850_CI_AI" />
    <xs:enumeration value="SQL_lxcompat_CP850_CI_AS" />
    <xs:enumeration value="Latin1_General_BIN" />
    <xs:enumeration value="SQL_Latin1_General_CP1_CS_AS" />
  </xs:restriction>
</xs:simpleType>

```



```

<xs:enumeration value="SQL_Latin1_General_CP1_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1_CI_AI" />
<xs:enumeration value="SQL_AltDiction_CP850_CS_AS" />
<xs:enumeration value="SQL_AltDiction_Pref_CP850_CI_AS" />
<xs:enumeration value="SQL_AltDiction_CP850_CI_AI" />
<xs:enumeration value="SQL_Scandinavian_Pref_CP850_CI_AS" />
<xs:enumeration value="SQL_Scandinavian_CP850_CS_AS" />
<xs:enumeration value="SQL_Scandinavian_CP850_CI_AS" />
<xs:enumeration value="SQL_AltDiction_CP850_CI_AS" />
<xs:enumeration value="Latin1_General_CS_AS" />
<xs:enumeration value="Latin1_General_CI_AS" />
<xs:enumeration value="Danish_Norwegian_CS_AS" />
<xs:enumeration value="Finnish_Swedish_CS_AS" />
<xs:enumeration value="Icelandic_CS_AS" />
<xs:enumeration value="Hungarian_BIN" />
<xs:enumeration value="Albanian_BIN" />
<xs:enumeration value="Czech_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1250_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1250_CI_AS" />
<xs:enumeration value="SQL_Czech_CP1250_CS_AS" />
<xs:enumeration value="SQL_Czech_CP1250_CI_AS" />
<xs:enumeration value="SQL_Hungarian_CP1250_CS_AS" />
<xs:enumeration value="SQL_Hungarian_CP1250_CI_AS" />
<xs:enumeration value="SQL_Polish_CP1250_CS_AS" />
<xs:enumeration value="SQL_Polish_CP1250_CI_AS" />
<xs:enumeration value="SQL_Romanian_CP1250_CS_AS" />
<xs:enumeration value="SQL_Romanian_CP1250_CI_AS" />
<xs:enumeration value="SQL_Croatian_CP1250_CS_AS" />
<xs:enumeration value="SQL_Croatian_CP1250_CI_AS" />
<xs:enumeration value="SQL_Slovak_CP1250_CS_AS" />
<xs:enumeration value="SQL_Slovak_CP1250_CI_AS" />
<xs:enumeration value="SQL_Slovenian_CP1250_CS_AS" />
<xs:enumeration value="SQL_Slovenian_CP1250_CI_AS" />
<xs:enumeration value="Cyrillic_General_BIN" />
<xs:enumeration value="Ukrainian_BIN" />
<xs:enumeration value="Macedonian_FYROM_90_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1251_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1251_CI_AS" />
<xs:enumeration value="SQL_Ukrainian_CP1251_CS_AS" />
<xs:enumeration value="SQL_Ukrainian_CP1251_CI_AS" />
<xs:enumeration value="Greek_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1253_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1253_CI_AS" />
<xs:enumeration value="SQL_MixDiction_CP1253_CS_AS" />
<xs:enumeration value="SQL_AltDiction_CP1253_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1253_CI_AI" />
<xs:enumeration value="Turkish_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1254_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1254_CI_AS" />
<xs:enumeration value="Hebrew_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1255_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1255_CI_AS" />
<xs:enumeration value="Arabic_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1256_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1256_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1257_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1257_CI_AS" />
<xs:enumeration value="SQL_Estonian_CP1257_CS_AS" />

```

```

<xs:enumeration value="SQL_Estonian_CP1257_CI_AS" />
<xs:enumeration value="SQL_Latvian_CP1257_CS_AS" />
<xs:enumeration value="SQL_Latvian_CP1257_CI_AS" />
<xs:enumeration value="SQL_Lithuanian_CP1257_CS_AS" />
<xs:enumeration value="SQL_Lithuanian_CP1257_CI_AS" />
<xs:enumeration value="SQL_Danish_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_SwedishPhone_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_SwedishStd_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_Icelandic_Pref_CP1_CI_AS" />
<xs:enumeration value="Japanese_BIN" />
<xs:enumeration value="Japanese_CI_AS" />
<xs:enumeration value="Korean_Wansung_BIN" />
<xs:enumeration value="Korean_Wansung_CI_AS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_BIN" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CI_AS" />
<xs:enumeration value="Chinese_PRC_BIN" />
<xs:enumeration value="Chinese_PRC_CI_AS" />
<xs:enumeration value="Japanese_CS_AS" />
<xs:enumeration value="Korean_Wansung_CS_AS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CS_AS" />
<xs:enumeration value="Chinese_PRC_CS_AS" />
<xs:enumeration value="Thai_BIN" />
<xs:enumeration value="Thai_CI_AS" />
<xs:enumeration value="Thai_CS_AS" />
<xs:enumeration value="SQL_EBCDIC037_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC273_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC277_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC278_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC280_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC284_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC285_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC297_CP1_CS_AS" />
</xs:restriction>
</xs:simpleType>
</xs:schema>

```

5.3 Management Model XML Schema for Version 2010/11

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2010/11"
  xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2010/11"
  attributeFormDefault="unqualified" elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2010/11"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:import
    namespace="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2010/11" />

  <!-- Management Model simpleTypes -->
  <xs:simpleType name="KeyPatternType">
    <xs:restriction base="xs:string">
      <xs:pattern value="(\\.*\\[.*\\])*" />
    </xs:restriction>
  </xs:simpleType>

  <!-- Management Model complexTypes -->

```

```

<xs:complexType name="InstanceType" abstract="true">
  <xs:attribute ref="MM:Key" use="required"/>
</xs:complexType>
<xs:complexType name="ReferenceType">
  <xs:attribute ref="MM:ReferenceKey" use="required" />
</xs:complexType>
<xs:complexType name="ReferencesType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="unbounded" ref="MM:Reference" />
  </xs:sequence>
</xs:complexType>

<!-- Management Model attributes-->
<xs:attribute name="Key" type="MM:KeyPatternType" />
<xs:attribute name="ReferenceKey" type="MM:KeyPatternType" />

<!-- Management Model Elements -->
<!--<xs:element name="Instance" type="MM:InstanceType"/>-->

<xs:element name="Instances"
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2010/11"
xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2010/11">
  <xs:complexType>
    <!--<xs:sequence>-->
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element ref="RE:Database" maxOccurs="1" />
      <xs:element ref="RE:CheckConstraint" />
      <xs:element ref="RE:Column" />
      <xs:element ref="RE:DatabaseRole" />
      <xs:element ref="RE:DefaultConstraint" />
      <xs:element ref="RE:DmlTrigger" />
      <xs:element ref="RE:ForeignKeyColumn" />
      <xs:element ref="RE:ForeignKeyConstraint" />
      <xs:element ref="RE:IndexedColumn" />
      <xs:element ref="RE>Login" />
      <xs:element ref="RE:PrimaryKeyConstraint" />
      <xs:element ref="RE:RelationalIndex" />
      <xs:element ref="RE:ScalarParameter" />
      <xs:element ref="RE:ScalarValuedFunction" />
      <xs:element ref="RE:Schema" />
      <xs:element ref="RE:StoredProcedure" />
      <xs:element ref="RE:Table" />
      <xs:element ref="RE:TableParameter" />
      <xs:element ref="RE:TableValuedFunction" />
      <xs:element ref="RE:UniqueConstraint" />
      <xs:element ref="RE:User" />
      <xs:element ref="RE:UserDefinedDataType" />
      <xs:element ref="RE:UserDefinedTableType" />
      <xs:element ref="RE:View" />
    </xs:choice>
    <!--</xs:sequence>-->
  </xs:complexType>
</xs:element>

<xs:element name="Reference" type="MM:ReferenceType" />
</xs:schema>

```

5.4 Relational Engine XML Schema for Version 2010/11

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2010/11"
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2010/11"
attributeFormDefault="unqualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2010/11" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:annotation>
    <xs:documentation>
      THE SCHEMA IS PROVIDED TO YOU ON AN "AS IS" BASIS, AND MICROSOFT
      DISCLAIMS ALL WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING,
      WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS
      FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT, AS TO THE SCHEMA OR ANY
      PRODUCT OR OTHER ITEM THAT MAY BE DEVELOPED USING THE SCHEMA.

      Without limiting the generality of the foregoing, Microsoft makes no
      warranty that any product or other item that may be developed using the
      schema, or any portion of the schema, will not infringe any copyright,
      patent, trade secret or other intellectual property right of any
      individual or legal entity in any country. It is your responsibility to
      obtain licenses to use any such intellectual property rights as appropriate.

      MICROSOFT IS NOT LIABLE FOR ANY DAMAGES OF ANY KIND ARISING OUT OF OR IN
      CONNECTION WITH THE USE OF THE SCHEMA, INCLUDING, WITHOUT LIMITATION, ANY
      DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST REVENUES OR LOST
      PROFITS), PUNITIVE OR SPECIAL DAMAGES, WHETHER OR NOT MICROSOFT HAS BEEN
      ADVISED OF SUCH DAMAGES.

      (c) Microsoft Corporation. All rights reserved.
    </xs:documentation>
  </xs:annotation>
  <xs:import
namespace="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2010/11" />
  <!--Relational model simple types: alphabetical order-->
  <xs:simpleType name="BooleanType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="True" />
      <xs:enumeration value="False" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="CompatibilityLevelEnumeration">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Version80" />
      <xs:enumeration value="Version90" />
      <xs:enumeration value="Version100" />
      <xs:enumeration value="Current" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="DMLActionEnumeration">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NoAction" />
      <xs:enumeration value="Cascade" />
      <xs:enumeration value="SetNull" />
      <xs:enumeration value="SetDefault" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ExecuteAsEnumeration">
```

```

    <xs:restriction base="xs:string">
      <xs:enumeration value="Caller" />
      <xs:enumeration value="Self" />
      <xs:enumeration value="Owner" />
      <xs:enumeration value="ExecuteAsUser" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="LoginTypeEnumeration">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Sql" />
      <xs:enumeration value="Windows" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="SortOrderEnumeration">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Ascending" />
      <xs:enumeration value="Descending" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="UserTypeEnumeration">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NoLogin" />
      <xs:enumeration value="SqlLogin" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="FillFactorType">
    <xs:restriction base="xs:short">
      <xs:minInclusive value="0"/>
      <xs:maxInclusive value="100"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="MaxDopType">
    <xs:restriction base="xs:short">
      <xs:minInclusive value="-1"/>
      <xs:maxInclusive value="64"/>
    </xs:restriction>
  </xs:simpleType>
  <!-- Relational model complex types: alphabetical order-->
  <xs:complexType name="BaseSystemDataType">
    <xs:all>
      <xs:element name="SystemDataType" type="RE:SqlDataType" />
    </xs:all>
  </xs:complexType>
  <xs:complexType name="CollationType">
    <xs:all>
      <xs:element name="Name" type="RE:CollationEnumeration" />
    </xs:all>
  </xs:complexType>
  <xs:complexType name="ComputedColumnType">
    <xs:all>
      <xs:element name="Text" type="xs:string" />
      <xs:element name="IsPersisted" type="RE:BooleanType" />
    </xs:all>
  </xs:complexType>
  <xs:complexType name="DataType">
    <xs:sequence minOccurs="0" maxOccurs="1">
      <xs:choice minOccurs="1" maxOccurs="1">
        <xs:element name="SystemDataType" type="RE:SqlDataType" />
        <xs:element name="XmlDataType" type="RE:SqlDataType" />
      </xs:choice>
    </xs:sequence>
  </xs:complexType>

```

```

        <xs:element name="ScalarDataType" type="RE:ScalarDataType" />
    </xs:choice>
</xs:sequence>
<xs:attribute ref="MM:ReferenceKey" use="optional" />
</xs:complexType>
<xs:complexType name="ExecutionContextType">
    <xs:all>
        <xs:element name="ContextType" type="RE:ExecuteAsEnumeration" />
        <xs:element minOccurs="0" name="User" type="MM:ReferenceType" />
    </xs:all>
</xs:complexType>
<xs:complexType name="IdentityType">
    <xs:sequence>
        <xs:element name="Seed" type="xs:unsignedInt" />
        <xs:element name="Increment" type="xs:unsignedInt" />
        <xs:element name="NotForReplication" type="xs:Boolean" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ScalarDataType">
    <xs:all>
        <xs:element name="Name" type="xs:string"/>
    </xs:all>
</xs:complexType>
<xs:complexType name="SqlDataType">
    <xs:all>
        <xs:element name="Length" type="xs:unsignedByte" />
        <xs:element name="NumericPrecision" type="xs:unsignedByte" />
        <xs:element name="NumericScale" type="xs:unsignedByte" />
        <xs:element name="TypeSpec" type="xs:string" />
    </xs:all>
</xs:complexType>
<!--Relational model elements: alphabetical order-->
<xs:element name="CheckConstraint">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Text" type="xs:string" />
                    <xs:element name="IsChecked" type="RE:BooleanType" />
                    <xs:element name="IsEnabled" type="RE:BooleanType" />
                    <xs:element name="NotForReplication" type="RE:BooleanType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="Column">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="DataType" type="RE:DataType" />
                    <xs:element name="Nullable" type="RE:BooleanType" />
                    <xs:element name="IsColumnSet" type="RE:BooleanType" />
                    <xs:element name="IsSparse" type="RE:BooleanType" />
                    <xs:element name="RowGuidCol" type="RE:BooleanType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

```

```

        <xs:element name="Collation" type="RE:CollationType" minOccurs="0" />
        <xs:element name="ComputedColumnInfo" type="RE:ComputedColumnType" minOccurs="0"
/>
        <xs:element name="IdentityColumnInfo" type="RE:IdentityType" minOccurs="0"/>
        <xs:element name="DefaultValue" type="MM:ReferenceType" minOccurs="0"/>
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="Database">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Collation" type="RE:CollationType" />
                    <xs:element name="CompatibilityLevel" type="RE:CompatibilityLevelEnumeration" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="DatabaseRole">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Owner" type="MM:ReferenceType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="DefaultConstraint">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Text" type="xs:string" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="DmlTrigger">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <!-- reference to On {table | view} -->
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="BodyText" type="xs:string" />
                    <xs:element name="InsteadOf" type="RE:BooleanType" />
                    <xs:element name="IsEncrypted" type="RE:BooleanType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

```

```

        <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
        <xs:element name="NotForReplication" type="RE:BooleanType" />
        <xs:element name="Delete" type="RE:BooleanType" />
        <xs:element name="Insert" type="RE:BooleanType" />
        <xs:element name="Update" type="RE:BooleanType" />
        <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0"
/>
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="ForeignKeyColumn">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="ReferencedColumn" type="MM:ReferenceType" />
                    <xs:element name="ReferencingColumn" type="MM:ReferenceType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="ForeignKeyConstraint">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Columns" type="MM:ReferencesType" />
                    <xs:element name="ReferencedTable" type="MM:ReferenceType" />
                    <xs:element name="IsChecked" type="RE:BooleanType" />
                    <xs:element name="IsEnabled" type="RE:BooleanType" />
                    <xs:element name="NotForReplication" type="RE:BooleanType" />
                    <xs:element name="DeleteAction" type="RE:DMLActionEnumeration" />
                    <xs:element name="UpdateAction" type="RE:DMLActionEnumeration" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="IndexedColumn">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="ReferencedColumn" type="MM:ReferenceType" />
                    <xs:element name="SortOrder" type="RE:SortOrderEnumeration" />
                    <xs:element name="IsIncluded" type="xs:string" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="Login">
    <xs:complexType>
        <xs:complexContent>

```



```

    <xs:extension base="MM:InstanceType">
      <xs:all>
        <xs:element name="Name" type="xs:string" />
        <xs:element name="LoginType" type="RE:LoginTypeEnumeration" />
        <xs:element name="Language" type="xs:string" minOccurs="0"/>
      </xs:all>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="PrimaryKeyConstraint">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="AssociatedIndex" type="MM:ReferenceType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="RelationalIndex">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="IndexedColumns" type="MM:ReferencesType" />
          <xs:element name="CompactLargeObjects" type="RE:BooleanType" />
          <xs:element name="DisallowPageLocks" type="RE:BooleanType" />
          <xs:element name="DisallowRowLocks" type="RE:BooleanType" />
          <xs:element name="FillFactor" type="RE:FillFactorType" />
          <xs:element name="FilterDefinition" type="xs:string" />
          <xs:element name="IgnoreDuplicateKeys" type="RE:BooleanType" />
          <xs:element name="IndexKey" type="MM:ReferenceType" minOccurs="0" />
          <xs:element name="IsClustered" type="RE:BooleanType" />
          <xs:element name="IsDisabled" type="RE:BooleanType" />
          <xs:element name="IsUnique" type="RE:BooleanType" />
          <xs:element name="MaximumDegreeOfParallelism" type="xs:short" />
          <xs:element name="NoAutomaticRecomputation" type="RE:BooleanType" />
          <xs:element name="OnlineIndexOperation" type="RE:BooleanType" />
          <xs:element name="PadIndex" type="RE:BooleanType" />
          <xs:element name="SortInTempdb" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
<xs:element name="ScalarParameter">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
          <xs:element name="IsOutput" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

```

        <xs:element name="Nullable" type="RE:BooleanType" />
        <xs:element name="DefaultValue" type="xs:string" minOccurs="0" />
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="ScalarValuedFunction">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="BodyText" type="xs:string" />
                    <xs:element name="DataType" type="RE:DataType" />
                    <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
                    <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="Schema">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Owner" type="MM:ReferenceType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="StoredProcedure">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="BodyText" type="xs:string" />
                    <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
                    <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="ForReplication" type="RE:BooleanType" />
<xs:element name="IsEncrypted" type="RE:BooleanType" />
<xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
<xs:element name="IsRecompiled" type="RE:BooleanType" />
<xs:element name="IsSqlClr" type="RE:BooleanType" />

```

```

        <xs:element name="Startup" type="RE:BooleanType" />
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="Table">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Columns" type="MM:ReferencesType" />
                    <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="TableParameter">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="DataType" type="RE:DataType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="TableValuedFunction">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="BodyText" type="xs:string" />
                    <xs:element name="Columns" type="MM:ReferencesType" />
                    <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
                    <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="IsEncrypted" type="RE:BooleanType" />
<xs:element name="IsInline" type="RE:BooleanType" />
<xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
<xs:element name="IsSchemaBound" type="RE:BooleanType" />
<xs:element name="IsSqlClr" type="RE:BooleanType" />
<xs:element name="TableVariableName" type="xs:string" minOccurs="0" />
</xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="UniqueConstraint">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">

```

```

        <xs:all>
            <xs:element name="Parent" type="MM:ReferenceType" />
            <xs:element name="Name" type="xs:string" />
            <xs:element name="AssociatedIndex" type="MM:ReferenceType" />
        </xs:all>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="User">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="UserType" type="RE:UserTypeEnumeration" />
                    <xs:element name="Login" type="MM:ReferenceType" minOccurs="0" />
                    <xs:element name="DefaultSchema" type="MM:ReferenceType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="UserDefinedDataType">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="BaseSystemDataType" type="RE:BaseSystemDataType" />
                    <xs:element minOccurs="0" name="Nullable" type="RE:BooleanType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="UserDefinedTableType">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Columns" type="MM:ReferencesType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="View">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="QueryText" type="xs:string" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

```

```

    <xs:element name="Columns" type="MM:ReferencesType" />
    <xs:element name="HasCheckOption" type="RE:BooleanType" />
    <xs:element name="HasColumnSpecification" type="RE:BooleanType" />
    <xs:element name="IsEncrypted" type="RE:BooleanType" />
    <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
    <xs:element name="IsSchemaBound" type="RE:BooleanType" />
    <xs:element name="ReturnsViewMetadata" type="RE:BooleanType" />
  </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:simpleType name="CollationEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="SQL_Latin1_General_CP437_BIN" />
    <xs:enumeration value="SQL_Latin1_General_CP437_CS_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP437_CI_AS" />
    <xs:enumeration value="SQL_Latin1_General_Pref_CP437_CI_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP437_CI_AI" />
    <xs:enumeration value="SQL_Latin1_General_CP850_BIN" />
    <xs:enumeration value="SQL_Latin1_General_CP850_CS_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP850_CI_AS" />
    <xs:enumeration value="SQL_Latin1_General_Pref_CP850_CI_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP850_CI_AI" />
    <xs:enumeration value="SQL_lXcompat_CP850_CI_AS" />
    <xs:enumeration value="Latin1_General_BIN" />
    <xs:enumeration value="SQL_Latin1_General_CP1_CS_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP1_CI_AS" />
    <xs:enumeration value="SQL_Latin1_General_Pref_CP1_CI_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP1_CI_AI" />
    <xs:enumeration value="SQL_AltDiction_CP850_CS_AS" />
    <xs:enumeration value="SQL_AltDiction_Pref_CP850_CI_AS" />
    <xs:enumeration value="SQL_AltDiction_CP850_CI_AI" />
    <xs:enumeration value="SQL_Scandinavian_Pref_CP850_CI_AS" />
    <xs:enumeration value="SQL_Scandinavian_CP850_CS_AS" />
    <xs:enumeration value="SQL_Scandinavian_CP850_CI_AS" />
    <xs:enumeration value="SQL_AltDiction_CP850_CI_AS" />
    <xs:enumeration value="Latin1_General_CS_AS" />
    <xs:enumeration value="Latin1_General_CI_AS" />
    <xs:enumeration value="Danish_Norwegian_CS_AS" />
    <xs:enumeration value="Finnish_Swedish_CS_AS" />
    <xs:enumeration value="Icelandic_CS_AS" />
    <xs:enumeration value="Hungarian_BIN" />
    <xs:enumeration value="Albanian_BIN" />
    <xs:enumeration value="Czech_BIN" />
    <xs:enumeration value="SQL_Latin1_General_CP1250_CS_AS" />
    <xs:enumeration value="SQL_Latin1_General_CP1250_CI_AS" />
    <xs:enumeration value="SQL_Czech_CP1250_CS_AS" />
    <xs:enumeration value="SQL_Czech_CP1250_CI_AS" />
    <xs:enumeration value="SQL_Hungarian_CP1250_CS_AS" />
    <xs:enumeration value="SQL_Hungarian_CP1250_CI_AS" />
    <xs:enumeration value="SQL_Polish_CP1250_CS_AS" />
    <xs:enumeration value="SQL_Polish_CP1250_CI_AS" />
    <xs:enumeration value="SQL_Romanian_CP1250_CS_AS" />
    <xs:enumeration value="SQL_Romanian_CP1250_CI_AS" />
    <xs:enumeration value="SQL_Croatian_CP1250_CS_AS" />
    <xs:enumeration value="SQL_Croatian_CP1250_CI_AS" />
    <xs:enumeration value="SQL_Slovak_CP1250_CS_AS" />
    <xs:enumeration value="SQL_Slovak_CP1250_CI_AS" />
  </xs:restriction>
</xs:simpleType>

```

```

<xs:enumeration value="SQL_Slovenian_CP1250_CS_AS" />
<xs:enumeration value="SQL_Slovenian_CP1250_CI_AS" />
<xs:enumeration value="Cyrillic_General_BIN" />
<xs:enumeration value="Ukrainian_BIN" />
<xs:enumeration value="Macedonian_FYROM_90_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1251_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1251_CI_AS" />
<xs:enumeration value="SQL_Ukrainian_CP1251_CS_AS" />
<xs:enumeration value="SQL_Ukrainian_CP1251_CI_AS" />
<xs:enumeration value="Greek_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1253_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1253_CI_AS" />
<xs:enumeration value="SQL_MixDiction_CP1253_CS_AS" />
<xs:enumeration value="SQL_AltDiction_CP1253_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1253_CI_AI" />
<xs:enumeration value="Turkish_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1254_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1254_CI_AS" />
<xs:enumeration value="Hebrew_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1255_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1255_CI_AS" />
<xs:enumeration value="Arabic_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP1256_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1256_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1257_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1257_CI_AS" />
<xs:enumeration value="SQL_Estonian_CP1257_CS_AS" />
<xs:enumeration value="SQL_Estonian_CP1257_CI_AS" />
<xs:enumeration value="SQL_Latvian_CP1257_CS_AS" />
<xs:enumeration value="SQL_Latvian_CP1257_CI_AS" />
<xs:enumeration value="SQL_Lithuanian_CP1257_CS_AS" />
<xs:enumeration value="SQL_Lithuanian_CP1257_CI_AS" />
<xs:enumeration value="SQL_Danish_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_SwedishPhone_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_SwedishStd_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_Icelandic_Pref_CP1_CI_AS" />
<xs:enumeration value="Japanese_BIN" />
<xs:enumeration value="Japanese_CI_AS" />
<xs:enumeration value="Korean_Wansung_BIN" />
<xs:enumeration value="Korean_Wansung_CI_AS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_BIN" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CI_AS" />
<xs:enumeration value="Chinese_PRC_BIN" />
<xs:enumeration value="Chinese_PRC_CI_AS" />
<xs:enumeration value="Japanese_CS_AS" />
<xs:enumeration value="Korean_Wansung_CS_AS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CS_AS" />
<xs:enumeration value="Chinese_PRC_CS_AS" />
<xs:enumeration value="Thai_BIN" />
<xs:enumeration value="Thai_CI_AS" />
<xs:enumeration value="Thai_CS_AS" />
<xs:enumeration value="SQL_EBCDIC037_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC273_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC277_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC278_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC280_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC284_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC285_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC297_CP1_CS_AS" />

```

```

    </xs:restriction>
</xs:simpleType>
</xs:schema>

```

5.5 Management Model XML Schema for Version 2011/03

```

<?xml version="1.0" encoding="utf-8"?>

<!--
The following schema describes the structure of
LogicalObjectStream and PhysicalObjectStream XML parts of dacpac for Microsoft SQL Server
2008 R2.

THE SCHEMA IS PROVIDED TO YOU ON AN "AS IS" BASIS, AND MICROSOFT
DISCLAIMS ALL WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING,
WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT, AS TO THE SCHEMA OR ANY
PRODUCT OR OTHER ITEM THAT MAY BE DEVELOPED USING THE SCHEMA.

Without limiting the generality of the foregoing, Microsoft makes no
warranty that any product or other item that may be developed using the
schema, or any portion of the schema, will not infringe any copyright,
patent, trade secret or other intellectual property right of any
individual or legal entity in any country. It is your responsibility to
obtain licenses to use any such intellectual property rights as appropriate.

MICROSOFT IS NOT LIABLE FOR ANY DAMAGES OF ANY KIND ARISING OUT OF OR IN
CONNECTION WITH THE USE OF THE SCHEMA, INCLUDING, WITHOUT LIMITATION, ANY
DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST REVENUES OR LOST
PROFITS), PUNITIVE OR SPECIAL DAMAGES, WHETHER OR NOT MICROSOFT HAS BEEN
ADVISED OF SUCH DAMAGES.

(c) Microsoft Corporation. All rights reserved.
-->

<xs:schema
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"

xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08"
attributeFormDefault="unqualified"
elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2009/08"
"
xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:import
namespace="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2009/08" />

  <!-- Management Model simpleTypes -->
  <xs:simpleType name="KeyPatternType">
    <xs:restriction base="xs:string">
      <xs:pattern value="(\\.*\\[.*\\])*" />
    </xs:restriction>
  </xs:simpleType>

  <!-- Management Model complexTypes -->

```

```

<xs:complexType name="InstanceType" abstract="true">
  <xs:attribute ref="MM:Key" use="required"/>
</xs:complexType>

<xs:complexType name="ReferenceType">
  <xs:attribute ref="MM:ReferenceKey" use="required" />
</xs:complexType>

<xs:complexType name="ReferencesType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="unbounded" ref="MM:Reference" />
  </xs:sequence>
</xs:complexType>

<!-- Management Model attributes-->
<xs:attribute name="Key" type="MM:KeyPatternType" />
<xs:attribute name="ReferenceKey" type="MM:KeyPatternType" />

<!-- Management Model Elements -->
<!--<xs:element name="Instance" type="MM:InstanceType"/>-->

<xs:element name="Instances"

xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2011/03"

xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2011/03">
  <xs:complexType>
    <!--<xs:sequence>-->
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element ref="RE:Database" maxOccurs="1" />
        <xs:element ref="RE:CheckConstraint" />
        <xs:element ref="RE:Column" />
        <xs:element ref="RE:DatabaseRole" />
        <xs:element ref="RE:DefaultConstraint" />
        <xs:element ref="RE:DmlTrigger" />
        <xs:element ref="RE:ForeignKeyColumn" />
        <xs:element ref="RE:ForeignKeyConstraint" />
        <xs:element ref="RE:IndexedColumn" />
        <xs:element ref="RE>Login" />
        <xs:element ref="RE:PrimaryKeyConstraint" />
        <xs:element ref="RE:RelationalIndex" />
        <xs:element ref="RE:ScalarParameter" />
        <xs:element ref="RE:ScalarValuedFunction" />
        <xs:element ref="RE:Schema" />
        <xs:element ref="RE:SpatialIndex" />
        <xs:element ref="RE:Statistics" />
        <xs:element ref="RE:StoredProcedure" />
        <xs:element ref="RE:Synonym" />
        <xs:element ref="RE:Table" />
        <xs:element ref="RE:TableParameter" />
        <xs:element ref="RE:TableValuedFunction" />
        <xs:element ref="RE:UniqueConstraint" />
        <xs:element ref="RE:User" />
        <xs:element ref="RE:UserDefinedDataType" />
        <xs:element ref="RE:UserDefinedTableType" />
        <xs:element ref="RE:View" />
      </xs:choice>
    <!--</xs:sequence>-->
  </xs:complexType>

```



```

</xs:element>

<xs:element name="Reference" type="MM:ReferenceType" />
</xs:schema>

```

5.6 Relational Engine XML Schema for Version 2011/03

```

<?xml version="1.0" encoding="utf-8"?>

<!--
The following schema describes the structure of
LogicalObjectStream and PhysicalObjectStream XML parts of dacpac for Microsoft SQL Server
2008 R2.

THE SCHEMA IS PROVIDED TO YOU ON AN "AS IS" BASIS, AND MICROSOFT
DISCLAIMS ALL WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING,
WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT, AS TO THE SCHEMA OR ANY
PRODUCT OR OTHER ITEM THAT MAY BE DEVELOPED USING THE SCHEMA.

Without limiting the generality of the foregoing, Microsoft makes no
warranty that any product or other item that may be developed using the
schema, or any portion of the schema, will not infringe any copyright,
patent, trade secret or other intellectual property right of any
individual or legal entity in any country. It is your responsibility to
obtain licenses to use any such intellectual property rights as appropriate.

MICROSOFT IS NOT LIABLE FOR ANY DAMAGES OF ANY KIND ARISING OUT OF OR IN
CONNECTION WITH THE USE OF THE SCHEMA, INCLUDING, WITHOUT LIMITATION, ANY
DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST REVENUES OR LOST
PROFITS), PUNITIVE OR SPECIAL DAMAGES, WHETHER OR NOT MICROSOFT HAS BEEN
ADVISED OF SUCH DAMAGES.

(c) Microsoft Corporation. All rights reserved.
-->

<xs:schema
xmlns:RE="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2011/03"
xmlns:MM="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2011/03"
attributeFormDefault="unqualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/sqlserver/RelationalEngine/Serialization/2011/03" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:import
namespace="http://schemas.microsoft.com/sqlserver/ManagementModel/Serialization/2011/03" />

  <!--Relational model simple types: alphabetical order-->

  <xs:simpleType name="ActivationOrder">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="First" />
      <xs:enumeration value="Last" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="BooleanType">
    <xs:restriction base="xs:string">

```

```

    <xs:enumeration value="True" />
    <xs:enumeration value="False" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="CompatibilityLevelEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Version80" />
    <xs:enumeration value="Version90" />
    <xs:enumeration value="Version100" />
    <xs:enumeration value="Version110" />
    <xs:enumeration value="Current" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="DMLActionEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NoAction" />
    <xs:enumeration value="Cascade" />
    <xs:enumeration value="SetNull" />
    <xs:enumeration value="SetDefault" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ExecuteAsEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Caller" />
    <xs:enumeration value="Self" />
    <xs:enumeration value="Owner" />
    <xs:enumeration value="ExecuteAsUser" />
    <xs:enumeration value="ExecuteAsLogin" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="GridDensity">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Low" />
    <xs:enumeration value="Medium" />
    <xs:enumeration value="High" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="LoginTypeEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Sql" />
    <xs:enumeration value="Windows" />
    <xs:enumeration value="AsymmetricKey" />
    <xs:enumeration value="Certificate" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="PermissionStateEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Deny" />
    <xs:enumeration value="Grant" />
    <xs:enumeration value="GrantWithGrant" />
    <xs:enumeration value="Revoke" />
  </xs:restriction>
</xs:simpleType>

```

```

<xs:simpleType name="PermissionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Alter" />
    <xs:enumeration value="AlterAnyApplicationRole" />
    <xs:enumeration value="AlterAnyAssembly" />
    <xs:enumeration value="AlterAnyAsymmetricKey" />
    <xs:enumeration value="AlterAnyCertificate" />
    <xs:enumeration value="AlterAnyContract" />
    <xs:enumeration value="AlterAnyDatabaseAudit" />
    <xs:enumeration value="AlterAnyDatabaseDdlTrigger" />
    <xs:enumeration value="AlterAnyDatabaseEventNotification" />
    <xs:enumeration value="AlterAnyDataspaces" />
    <xs:enumeration value="AlterAnyFulltextCatalog" />
    <xs:enumeration value="AlterAnyMessageType" />
    <xs:enumeration value="AlterAnyRemoteServiceBinding" />
    <xs:enumeration value="AlterAnyRole" />
    <xs:enumeration value="AlterAnyRoute" />
    <xs:enumeration value="AlterAnySchema" />
    <xs:enumeration value="AlterAnyService" />
    <xs:enumeration value="AlterAnySymmetricKey" />
    <xs:enumeration value="AlterAnyUser" />
    <xs:enumeration value="Authenticate" />
    <xs:enumeration value="BackupDatabase" />
    <xs:enumeration value="BackupLog" />
    <xs:enumeration value="Checkpoint" />
    <xs:enumeration value="Connect" />
    <xs:enumeration value="ConnectReplication" />
    <xs:enumeration value="Control" />
    <xs:enumeration value="CreateAggregate" />
    <xs:enumeration value="CreateAssembly" />
    <xs:enumeration value="CreateAsymmetricKey" />
    <xs:enumeration value="CreateCertificate" />
    <xs:enumeration value="CreateContract" />
    <xs:enumeration value="CreateDatabase" />
    <xs:enumeration value="CreateDatabaseDdlEventNotification" />
    <xs:enumeration value="CreateDefault" />
    <xs:enumeration value="CreateFulltextCatalog" />
    <xs:enumeration value="CreateFunction" />
    <xs:enumeration value="CreateMessageType" />
    <xs:enumeration value="CreateProcedure" />
    <xs:enumeration value="CreateQueue" />
    <xs:enumeration value="CreateRemoteServiceBinding" />
    <xs:enumeration value="CreateRole" />
    <xs:enumeration value="CreateRoute" />
    <xs:enumeration value="CreateRule" />
    <xs:enumeration value="CreateSchema" />
    <xs:enumeration value="CreateService" />
    <xs:enumeration value="CreateSymmetricKey" />
    <xs:enumeration value="CreateSynonym" />
    <xs:enumeration value="CreateTable" />
    <xs:enumeration value="CreateType" />
    <xs:enumeration value="CreateView" />
    <xs:enumeration value="CreateXmlSchemaCollection" />
    <xs:enumeration value="Delete" />
    <xs:enumeration value="Execute" />
    <xs:enumeration value="Impersonate" />
    <xs:enumeration value="Insert" />
    <xs:enumeration value="Receive" />
  </xs:restriction>
</xs:simpleType>

```

```

    <xs:enumeration value="References" />
    <xs:enumeration value="Select" />
    <xs:enumeration value="Send" />
    <xs:enumeration value="Showplan" />
    <xs:enumeration value="SubscribeQueryNotifications" />
    <xs:enumeration value="TakeOwnership" />
    <xs:enumeration value="Update" />
    <xs:enumeration value="ViewChangeTracking" />
    <xs:enumeration value="ViewDatabaseState" />
    <xs:enumeration value="ViewDefinition" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SortOrderEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Ascending" />
    <xs:enumeration value="Descending" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="UserTypeEnumeration">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NoLogin" />
    <xs:enumeration value="SqlLogin" />
    <xs:enumeration value="AsymmetricKey" />
    <xs:enumeration value="Certificate" />
    <xs:enumeration value="Password" />
  </xs:restriction>
</xs:simpleType>

<!-- default 0-->
<xs:simpleType name="FillFactorType">
  <xs:restriction base="xs:short">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="100"/>
  </xs:restriction>
</xs:simpleType>

<!-- Relational model complex types: alphabetical order-->

<xs:complexType name="BaseSystemDataType">
  <xs:all>
    <xs:element name="SystemDataType" type="RE:SqlDataType" />
  </xs:all>
</xs:complexType>

<xs:complexType name="CollationType">
  <xs:all>
    <xs:element name="Name" type="RE:CollationEnumeration" />
  </xs:all>
</xs:complexType>

<xs:complexType name="ComputedColumnType">
  <xs:all>
    <xs:element name="Text" type="xs:string" />
    <xs:element name="IsPersisted" type="RE:BooleanType" />
  </xs:all>
</xs:complexType>

```

```

<xs:complexType name="DatabasePermission">
  <xs:all>
    <xs:element name="PermissionState" type="RE:PermissionStateEnum" />
    <xs:element name="PermissionType" type="RE:PermissionTypeEnum" />
    <xs:element name="TargetObject" type="MM:ReferenceType" />
  </xs:all>
</xs:complexType>

<xs:complexType name="DataType">
  <xs:sequence minOccurs="0" maxOccurs="1">
    <xs:choice minOccurs="1" maxOccurs="1">
      <xs:element name="SystemDataType" type="RE:SqlDataType" />
      <xs:element name="XmlDataType" type="RE:SqlDataType" />
      <xs:element name="SystemClrDataType" type="RE:SqlDataType" />
      <xs:element name="ScalarDataType" type="RE:ScalarDataType" />
    </xs:choice>
  </xs:sequence>
  <xs:attribute ref="MM:ReferenceKey" use="optional" />
</xs:complexType>

<xs:complexType name="ExecutionContextType">
  <xs:all>
    <xs:element name="ContextType" type="RE:ExecuteAsEnumeration" />
    <xs:element minOccurs="0" name="User" type="MM:ReferenceType" />
  </xs:all>
</xs:complexType>

<xs:complexType name="IdentityType">
  <xs:sequence>
    <xs:element name="Seed" type="xs:unsignedInt" />
    <xs:element name="Increment" type="xs:unsignedInt" />
    <xs:element name="NotForReplication" type="RE:BooleanType" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="Permissions">
  <xs:all>
    <xs:element name="DatabasePermission" type="RE:DatabasePermission" />
  </xs:all>
</xs:complexType>

<xs:complexType name="ScalarDataType">
  <xs:all>
    <xs:element name="Name" type="xs:string"/>
  </xs:all>
</xs:complexType>

<xs:complexType name="SqlDataType">
  <xs:all>
    <xs:element name="Length" type="xs:unsignedByte" />
    <xs:element name="NumericPrecision" type="xs:unsignedByte" />
    <xs:element name="NumericScale" type="xs:unsignedByte" />
    <xs:element name="TypeSpec" type="xs:string" />
  </xs:all>
</xs:complexType>

<!--Relational model elements: alphabetical order-->

<xs:element name="CheckConstraint">

```

```

<xs:complexType>
  <xs:complexContent>
    <xs:extension base="MM:InstanceType">
      <xs:all>
        <xs:element name="Parent" type="MM:ReferenceType" />
        <xs:element name="Name" type="xs:string" />
        <xs:element name="Text" type="xs:string" />
        <xs:element name="IsChecked" type="RE:BooleanType" />
        <xs:element name="IsEnabled" type="RE:BooleanType" />
        <xs:element name="NotForReplication" type="RE:BooleanType" />
      </xs:all>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
</xs:element>

<xs:element name="Column">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
          <xs:element name="Nullable" type="RE:BooleanType" />
          <xs:element name="IsColumnSet" type="RE:BooleanType" />
          <xs:element name="IsSparse" type="RE:BooleanType" />
          <xs:element name="RowGuidCol" type="RE:BooleanType" />
          <xs:element name="Collation" type="RE:CollationType" minOccurs="0" />
          <xs:element name="ComputedColumnInfo" type="RE:ComputedColumnType" minOccurs="0" />
          <xs:element name="IdentityColumnInfo" type="RE:IdentityType" minOccurs="0" />
          <xs:element name="DefaultValue" type="MM:ReferenceType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="Database">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Collation" type="RE:CollationType" />
          <xs:element name="CompatibilityLevel" type="RE:CompatibilityLevelEnumeration" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="DatabaseRole">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />

```

```

        <xs:element name="Owner" type="MM:ReferenceType" minOccurs="0" />
        <xs:element name="Permissions" type="RE:Permissions" minOccurs="0" />
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

<xs:element name="DefaultConstraint">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Text" type="xs:string" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

<xs:element name="DmlTrigger">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <!-- reference to On {table | view} -->
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="BodyText" type="xs:string" />
                    <xs:element name="InsteadOf" type="RE:BooleanType" />
                    <xs:element name="IsEnabled" type="RE:BooleanType" />
                    <xs:element name="IsEncrypted" type="RE:BooleanType" />
                    <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
                    <xs:element name="NotForReplication" type="RE:BooleanType" />
                    <xs:element name="Delete" type="RE:BooleanType" />
                    <xs:element name="DeleteActivationOrder" type="RE:ActivationOrder" />
                    <xs:element name="Insert" type="RE:BooleanType" />
                    <xs:element name="InsertActivationOrder" type="RE:ActivationOrder" />
                    <xs:element name="Update" type="RE:BooleanType" />
                    <xs:element name="UpdateActivationOrder" type="RE:ActivationOrder" />
                    <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

<xs:element name="ForeignKeyColumn">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="ReferencedColumn" type="MM:ReferenceType" />
                    <xs:element name="ReferencingColumn" type="MM:ReferenceType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

```

```

    </xs:complexType>
  </xs:element>

  <xs:element name="ForeignKeyConstraint">
    <xs:complexType>
      <xs:complexContent>
        <xs:extension base="MM:InstanceType">
          <xs:all>
            <xs:element name="Parent" type="MM:ReferenceType" />
            <xs:element name="Name" type="xs:string" />
            <xs:element name="Columns" type="MM:ReferencesType" />
            <xs:element name="ReferencedTable" type="MM:ReferenceType" />
            <xs:element name="IsChecked" type="RE:BooleanType" />
            <xs:element name="IsEnabled" type="RE:BooleanType" />
            <xs:element name="NotForReplication" type="RE:BooleanType" />
            <xs:element name="DeleteAction" type="RE:DMLActionEnumeration" />
            <xs:element name="UpdateAction" type="RE:DMLActionEnumeration" />
          </xs:all>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
  </xs:element>

  <xs:element name="IndexedColumn">
    <xs:complexType>
      <xs:complexContent>
        <xs:extension base="MM:InstanceType">
          <xs:all>
            <xs:element name="ReferencedColumn" type="MM:ReferenceType" />
            <xs:element name="SortOrder" type="RE:SortOrderEnumeration" />
            <xs:element name="IsIncluded" type="xs:string" />
          </xs:all>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
  </xs:element>

  <xs:element name="Login">
    <xs:complexType>
      <xs:complexContent>
        <xs:extension base="MM:InstanceType">
          <xs:all>
            <xs:element name="Name" type="xs:string" />
            <xs:element name="LoginType" type="RE:LoginTypeEnumeration" />
            <xs:element name="Language" type="xs:string" minOccurs="0"/>
          </xs:all>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
  </xs:element>

  <xs:element name="PrimaryKeyConstraint">
    <xs:complexType>
      <xs:complexContent>
        <xs:extension base="MM:InstanceType">
          <xs:all>
            <xs:element name="Parent" type="MM:ReferenceType" />
            <xs:element name="Name" type="xs:string" />
            <xs:element name="AssociatedIndex" type="MM:ReferenceType" />
          </xs:all>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
  </xs:element>

```



```

        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="RelationalIndex">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="IndexedColumns" type="MM:ReferencesType" />
          <xs:element name="CompactLargeObjects" type="RE:BooleanType" />
          <xs:element name="DisallowPageLocks" type="RE:BooleanType" />
          <xs:element name="DisallowRowLocks" type="RE:BooleanType" />
          <xs:element name="FillFactor" type="RE:FillFactorType" />
          <xs:element name="FilterDefinition" type="xs:string" />
          <xs:element name="IgnoreDuplicateKeys" type="RE:BooleanType" />
          <xs:element name="IndexKey" type="MM:ReferenceType" minOccurs="0" />
          <xs:element name="IsClustered" type="RE:BooleanType" />
          <xs:element name="IsDisabled" type="RE:BooleanType" />
          <xs:element name="IsUnique" type="RE:BooleanType" />
          <xs:element name="NoAutomaticRecomputation" type="RE:BooleanType" />
          <xs:element name="PadIndex" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="ScalarParameter">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Name" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
          <xs:element name="IsOutput" type="RE:BooleanType" />
          <xs:element name="Nullable" type="RE:BooleanType" />
          <xs:element name="DefaultValue" type="xs:string" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="ScalarValuedFunction">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="BodyText" type="xs:string" />
          <xs:element name="DataType" type="RE:DataType" />
          <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

```

        <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0"
/>
        <xs:element name="IsEncrypted" type="RE:BooleanType" />
        <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
        <xs:element name="IsSchemaBound" type="RE:BooleanType" />
        <xs:element name="IsSqlClr" type="RE:BooleanType" />
        <xs:element name="Nullable" type="RE:BooleanType" />
        <xs:element name="ReturnsNullOnNullInput" type="RE:BooleanType" />
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

<xs:element name="Schema">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="Owner" type="MM:ReferenceType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

<xs:element name="SpatialIndex">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="BoundingBoxXMax" type="xs:unsignedInt" />
                    <xs:element name="BoundingBoxXMin" type="xs:unsignedInt" />
                    <xs:element name="BoundingBoxYMax" type="xs:unsignedInt" />
                    <xs:element name="BoundingBoxYMin" type="xs:unsignedInt" />
                    <xs:element name="CellsPerObject" type="xs:unsignedInt" />
                    <xs:element name="DisallowPageLocks" type="RE:BooleanType" />
                    <xs:element name="DisallowRowLocks" type="RE:BooleanType" />
                    <xs:element name="FillFactor" type="RE:FillFactorType" />
                    <xs:element name="IgnoreDuplicateKeys" type="RE:BooleanType" />
                    <xs:element name="IndexedColumn" type="MM:ReferenceType" />
                    <xs:element name="IsDisabled" type="RE:BooleanType" />
                    <xs:element name="PadIndex" type="RE:BooleanType" />
                    <xs:element name="NoAutomaticRecomputation" type="RE:BooleanType" />
                    <xs:element name="Level1Density" type="RE:GridDensity" />
                    <xs:element name="Level2Density" type="RE:GridDensity" />
                    <xs:element name="Level3Density" type="RE:GridDensity" />
                    <xs:element name="Level4Density" type="RE:GridDensity" />
                    <xs:element name="Name" type="xs:string" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

```

```

<xs:element name="Statistics">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Columns" type="MM:ReferencesType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="FilterDefinition" type="xs:string" minOccurs="0" />
          <xs:element name="NoAutomaticRecomputation" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="StoredProcedure">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="BodyText" type="xs:string" />
          <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
          <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
          <xs:element name="ForReplication" type="RE:BooleanType" />
          <xs:element name="IsEncrypted" type="RE:BooleanType" />
          <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
          <xs:element name="IsRecompiled" type="RE:BooleanType" />
          <xs:element name="IsSqlClr" type="RE:BooleanType" />
          <xs:element name="Startup" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="Synonym">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="BaseObjectName" type="xs:string" />
          <xs:element name="Name" type="xs:string" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="Table">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

```

        <xs:element name="Name" type="xs:string" />
        <xs:element name="Columns" type="MM:ReferencesType" />
        <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

<xs:element name="TableParameter">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="DataType" type="RE:DataType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

<xs:element name="TableValuedFunction">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="BodyText" type="xs:string" />
                    <xs:element name="Columns" type="MM:ReferencesType" />
                    <xs:element name="Parameters" type="MM:ReferencesType" minOccurs="0" />
                    <xs:element name="ExecutionContext" type="RE:ExecutionContextType" minOccurs="0" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

    <xs:element name="IsEncrypted" type="RE:BooleanType" />
    <xs:element name="IsInline" type="RE:BooleanType" />
    <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
    <xs:element name="IsSchemaBound" type="RE:BooleanType" />
    <xs:element name="IsSqlClr" type="RE:BooleanType" />
    <xs:element name="TableVariableName" type="xs:string" minOccurs="0" />
</xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

<xs:element name="UniqueConstraint">
    <xs:complexType>
        <xs:complexContent>
            <xs:extension base="MM:InstanceType">
                <xs:all>
                    <xs:element name="Parent" type="MM:ReferenceType" />
                    <xs:element name="Name" type="xs:string" />
                    <xs:element name="AssociatedIndex" type="MM:ReferenceType" />
                </xs:all>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>

```

```

<xs:element name="User">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="UserType" type="RE:UserTypeEnumeration" />
          <xs:element name="Login" type="MM:ReferenceType" minOccurs="0" />
          <xs:element name="MemberOfRoles" type="MM:ReferenceType" minOccurs="0" />
          <xs:element name="DefaultSchema" type="MM:ReferenceType" minOccurs="0" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="UserDefinedDataType">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="BaseSystemDataType" type="RE:BaseSystemDataType" />
          <xs:element minOccurs="0" name="Nullable" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="UserDefinedTableType">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="Columns" type="MM:ReferencesType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

<xs:element name="View">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="MM:InstanceType">
        <xs:all>
          <xs:element name="Parent" type="MM:ReferenceType" />
          <xs:element name="Name" type="xs:string" />
          <xs:element name="QueryText" type="xs:string" />
          <xs:element name="Columns" type="MM:ReferencesType" />
          <xs:element name="HasCheckOption" type="RE:BooleanType" />
          <xs:element name="HasColumnSpecification" type="RE:BooleanType" />
          <xs:element name="IsEncrypted" type="RE:BooleanType" />
        </xs:all>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>

```

```

        <xs:element name="IsQuotedIdentifierOn" type="RE:BooleanType" />
        <xs:element name="IsSchemaBound" type="RE:BooleanType" />
        <xs:element name="ReturnsViewMetadata" type="RE:BooleanType" />
    </xs:all>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

<xs:simpleType name="CollationEnumeration">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Albanian_BIN" />
        <xs:enumeration value="Albanian_BIN2" />
        <xs:enumeration value="Albanian_CI_AI" />
        <xs:enumeration value="Albanian_CI_AI_WS" />
        <xs:enumeration value="Albanian_CI_AI_KS" />
        <xs:enumeration value="Albanian_CI_AI_KS_WS" />
        <xs:enumeration value="Albanian_CI_AS" />
        <xs:enumeration value="Albanian_CI_AS_WS" />
        <xs:enumeration value="Albanian_CI_AS_KS" />
        <xs:enumeration value="Albanian_CI_AS_KS_WS" />
        <xs:enumeration value="Albanian_CS_AI" />
        <xs:enumeration value="Albanian_CS_AI_WS" />
        <xs:enumeration value="Albanian_CS_AI_KS" />
        <xs:enumeration value="Albanian_CS_AI_KS_WS" />
        <xs:enumeration value="Albanian_CS_AS" />
        <xs:enumeration value="Albanian_CS_AS_WS" />
        <xs:enumeration value="Albanian_CS_AS_KS" />
        <xs:enumeration value="Albanian_CS_AS_KS_WS" />
        <xs:enumeration value="Albanian_100_BIN" />
        <xs:enumeration value="Albanian_100_BIN2" />
        <xs:enumeration value="Albanian_100_CI_AI" />
        <xs:enumeration value="Albanian_100_CI_AI_WS" />
        <xs:enumeration value="Albanian_100_CI_AI_KS" />
        <xs:enumeration value="Albanian_100_CI_AI_KS_WS" />
        <xs:enumeration value="Albanian_100_CI_AS" />
        <xs:enumeration value="Albanian_100_CI_AS_WS" />
        <xs:enumeration value="Albanian_100_CI_AS_KS" />
        <xs:enumeration value="Albanian_100_CI_AS_KS_WS" />
        <xs:enumeration value="Albanian_100_CS_AI" />
        <xs:enumeration value="Albanian_100_CS_AI_WS" />
        <xs:enumeration value="Albanian_100_CS_AI_KS" />
        <xs:enumeration value="Albanian_100_CS_AI_KS_WS" />
        <xs:enumeration value="Albanian_100_CS_AS" />
        <xs:enumeration value="Albanian_100_CS_AS_WS" />
        <xs:enumeration value="Albanian_100_CS_AS_KS" />
        <xs:enumeration value="Albanian_100_CS_AS_KS_WS" />
        <xs:enumeration value="Arabic_BIN" />
        <xs:enumeration value="Arabic_BIN2" />
        <xs:enumeration value="Arabic_CI_AI" />
        <xs:enumeration value="Arabic_CI_AI_WS" />
        <xs:enumeration value="Arabic_CI_AI_KS" />
        <xs:enumeration value="Arabic_CI_AI_KS_WS" />
        <xs:enumeration value="Arabic_CI_AS" />
        <xs:enumeration value="Arabic_CI_AS_WS" />
        <xs:enumeration value="Arabic_CI_AS_KS" />
        <xs:enumeration value="Arabic_CI_AS_KS_WS" />
        <xs:enumeration value="Arabic_CS_AI" />
        <xs:enumeration value="Arabic_CS_AI_WS" />
    </xs:restriction>
</xs:simpleType>

```

```
<xs:enumeration value="Arabic_CS_AI_KS" />
<xs:enumeration value="Arabic_CS_AI_KS_WS" />
<xs:enumeration value="Arabic_CS_AS" />
<xs:enumeration value="Arabic_CS_AS_WS" />
<xs:enumeration value="Arabic_CS_AS_KS" />
<xs:enumeration value="Arabic_CS_AS_KS_WS" />
<xs:enumeration value="Arabic_100_BIN" />
<xs:enumeration value="Arabic_100_BIN2" />
<xs:enumeration value="Arabic_100_CI_AI" />
<xs:enumeration value="Arabic_100_CI_AI_WS" />
<xs:enumeration value="Arabic_100_CI_AI_KS" />
<xs:enumeration value="Arabic_100_CI_AI_KS_WS" />
<xs:enumeration value="Arabic_100_CI_AS" />
<xs:enumeration value="Arabic_100_CI_AS_WS" />
<xs:enumeration value="Arabic_100_CI_AS_KS" />
<xs:enumeration value="Arabic_100_CI_AS_KS_WS" />
<xs:enumeration value="Arabic_100_CS_AI" />
<xs:enumeration value="Arabic_100_CS_AI_WS" />
<xs:enumeration value="Arabic_100_CS_AI_KS" />
<xs:enumeration value="Arabic_100_CS_AI_KS_WS" />
<xs:enumeration value="Arabic_100_CS_AS" />
<xs:enumeration value="Arabic_100_CS_AS_WS" />
<xs:enumeration value="Arabic_100_CS_AS_KS" />
<xs:enumeration value="Arabic_100_CS_AS_KS_WS" />
<xs:enumeration value="Assamese_100_BIN" />
<xs:enumeration value="Assamese_100_BIN2" />
<xs:enumeration value="Assamese_100_CI_AI" />
<xs:enumeration value="Assamese_100_CI_AI_WS" />
<xs:enumeration value="Assamese_100_CI_AI_KS" />
<xs:enumeration value="Assamese_100_CI_AI_KS_WS" />
<xs:enumeration value="Assamese_100_CI_AS" />
<xs:enumeration value="Assamese_100_CI_AS_WS" />
<xs:enumeration value="Assamese_100_CI_AS_KS" />
<xs:enumeration value="Assamese_100_CI_AS_KS_WS" />
<xs:enumeration value="Assamese_100_CS_AI" />
<xs:enumeration value="Assamese_100_CS_AI_WS" />
<xs:enumeration value="Assamese_100_CS_AI_KS" />
<xs:enumeration value="Assamese_100_CS_AI_KS_WS" />
<xs:enumeration value="Assamese_100_CS_AS" />
<xs:enumeration value="Assamese_100_CS_AS_WS" />
<xs:enumeration value="Assamese_100_CS_AS_KS" />
<xs:enumeration value="Assamese_100_CS_AS_KS_WS" />
<xs:enumeration value="Azeri_Cyrillic_100_BIN" />
<xs:enumeration value="Azeri_Cyrillic_100_BIN2" />
<xs:enumeration value="Azeri_Cyrillic_100_CI_AI" />
<xs:enumeration value="Azeri_Cyrillic_100_CI_AI_WS" />
<xs:enumeration value="Azeri_Cyrillic_100_CI_AI_KS" />
<xs:enumeration value="Azeri_Cyrillic_100_CI_AI_KS_WS" />
<xs:enumeration value="Azeri_Cyrillic_100_CI_AS" />
<xs:enumeration value="Azeri_Cyrillic_100_CI_AS_WS" />
<xs:enumeration value="Azeri_Cyrillic_100_CI_AS_KS" />
<xs:enumeration value="Azeri_Cyrillic_100_CI_AS_KS_WS" />
<xs:enumeration value="Azeri_Cyrillic_100_CS_AI" />
<xs:enumeration value="Azeri_Cyrillic_100_CS_AI_WS" />
<xs:enumeration value="Azeri_Cyrillic_100_CS_AI_KS" />
<xs:enumeration value="Azeri_Cyrillic_100_CS_AI_KS_WS" />
<xs:enumeration value="Azeri_Cyrillic_100_CS_AS" />
<xs:enumeration value="Azeri_Cyrillic_100_CS_AS_WS" />
<xs:enumeration value="Azeri_Cyrillic_100_CS_AS_KS" />
```

```

<xs:enumeration value="Azeri_Cyrillic_100_CS_AS_KS_WS" />
<xs:enumeration value="Azeri_Latin_100_BIN" />
<xs:enumeration value="Azeri_Latin_100_BIN2" />
<xs:enumeration value="Azeri_Latin_100_CI_AI" />
<xs:enumeration value="Azeri_Latin_100_CI_AI_WS" />
<xs:enumeration value="Azeri_Latin_100_CI_AI_KS" />
<xs:enumeration value="Azeri_Latin_100_CI_AI_KS_WS" />
<xs:enumeration value="Azeri_Latin_100_CI_AS" />
<xs:enumeration value="Azeri_Latin_100_CI_AS_WS" />
<xs:enumeration value="Azeri_Latin_100_CI_AS_KS" />
<xs:enumeration value="Azeri_Latin_100_CI_AS_KS_WS" />
<xs:enumeration value="Azeri_Latin_100_CS_AI" />
<xs:enumeration value="Azeri_Latin_100_CS_AI_WS" />
<xs:enumeration value="Azeri_Latin_100_CS_AI_KS" />
<xs:enumeration value="Azeri_Latin_100_CS_AI_KS_WS" />
<xs:enumeration value="Azeri_Latin_100_CS_AS" />
<xs:enumeration value="Azeri_Latin_100_CS_AS_WS" />
<xs:enumeration value="Azeri_Latin_100_CS_AS_KS" />
<xs:enumeration value="Azeri_Latin_100_CS_AS_KS_WS" />
<xs:enumeration value="Bashkir_100_BIN" />
<xs:enumeration value="Bashkir_100_BIN2" />
<xs:enumeration value="Bashkir_100_CI_AI" />
<xs:enumeration value="Bashkir_100_CI_AI_WS" />
<xs:enumeration value="Bashkir_100_CI_AI_KS" />
<xs:enumeration value="Bashkir_100_CI_AI_KS_WS" />
<xs:enumeration value="Bashkir_100_CI_AS" />
<xs:enumeration value="Bashkir_100_CI_AS_WS" />
<xs:enumeration value="Bashkir_100_CI_AS_KS" />
<xs:enumeration value="Bashkir_100_CI_AS_KS_WS" />
<xs:enumeration value="Bashkir_100_CS_AI" />
<xs:enumeration value="Bashkir_100_CS_AI_WS" />
<xs:enumeration value="Bashkir_100_CS_AI_KS" />
<xs:enumeration value="Bashkir_100_CS_AI_KS_WS" />
<xs:enumeration value="Bashkir_100_CS_AS" />
<xs:enumeration value="Bashkir_100_CS_AS_WS" />
<xs:enumeration value="Bashkir_100_CS_AS_KS" />
<xs:enumeration value="Bashkir_100_CS_AS_KS_WS" />
<xs:enumeration value="Bengali_100_BIN" />
<xs:enumeration value="Bengali_100_BIN2" />
<xs:enumeration value="Bengali_100_CI_AI" />
<xs:enumeration value="Bengali_100_CI_AI_WS" />
<xs:enumeration value="Bengali_100_CI_AI_KS" />
<xs:enumeration value="Bengali_100_CI_AI_KS_WS" />
<xs:enumeration value="Bengali_100_CI_AS" />
<xs:enumeration value="Bengali_100_CI_AS_WS" />
<xs:enumeration value="Bengali_100_CI_AS_KS" />
<xs:enumeration value="Bengali_100_CI_AS_KS_WS" />
<xs:enumeration value="Bengali_100_CS_AI" />
<xs:enumeration value="Bengali_100_CS_AI_WS" />
<xs:enumeration value="Bengali_100_CS_AI_KS" />
<xs:enumeration value="Bengali_100_CS_AI_KS_WS" />
<xs:enumeration value="Bengali_100_CS_AS" />
<xs:enumeration value="Bengali_100_CS_AS_WS" />
<xs:enumeration value="Bengali_100_CS_AS_KS" />
<xs:enumeration value="Bengali_100_CS_AS_KS_WS" />
<xs:enumeration value="Bosnian_Cyrillic_100_BIN" />
<xs:enumeration value="Bosnian_Cyrillic_100_BIN2" />
<xs:enumeration value="Bosnian_Cyrillic_100_CI_AI" />
<xs:enumeration value="Bosnian_Cyrillic_100_CI_AI_WS" />

```



```

<xs:enumeration value="Bosnian_Cyrillic_100_CI_AI_KS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CI_AI_KS_WS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CI_AS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CI_AS_WS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CI_AS_KS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CI_AS_KS_WS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CS_AI" />
<xs:enumeration value="Bosnian_Cyrillic_100_CS_AI_WS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CS_AI_KS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CS_AI_KS_WS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CS_AS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CS_AS_WS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CS_AS_KS" />
<xs:enumeration value="Bosnian_Cyrillic_100_CS_AS_KS_WS" />
<xs:enumeration value="Bosnian_Latin_100_BIN" />
<xs:enumeration value="Bosnian_Latin_100_BIN2" />
<xs:enumeration value="Bosnian_Latin_100_CI_AI" />
<xs:enumeration value="Bosnian_Latin_100_CI_AI_WS" />
<xs:enumeration value="Bosnian_Latin_100_CI_AI_KS" />
<xs:enumeration value="Bosnian_Latin_100_CI_AI_KS_WS" />
<xs:enumeration value="Bosnian_Latin_100_CI_AS" />
<xs:enumeration value="Bosnian_Latin_100_CI_AS_WS" />
<xs:enumeration value="Bosnian_Latin_100_CI_AS_KS" />
<xs:enumeration value="Bosnian_Latin_100_CI_AS_KS_WS" />
<xs:enumeration value="Bosnian_Latin_100_CS_AI" />
<xs:enumeration value="Bosnian_Latin_100_CS_AI_WS" />
<xs:enumeration value="Bosnian_Latin_100_CS_AI_KS" />
<xs:enumeration value="Bosnian_Latin_100_CS_AI_KS_WS" />
<xs:enumeration value="Bosnian_Latin_100_CS_AS" />
<xs:enumeration value="Bosnian_Latin_100_CS_AS_WS" />
<xs:enumeration value="Bosnian_Latin_100_CS_AS_KS" />
<xs:enumeration value="Bosnian_Latin_100_CS_AS_KS_WS" />
<xs:enumeration value="Breton_100_BIN" />
<xs:enumeration value="Breton_100_BIN2" />
<xs:enumeration value="Breton_100_CI_AI" />
<xs:enumeration value="Breton_100_CI_AI_WS" />
<xs:enumeration value="Breton_100_CI_AI_KS" />
<xs:enumeration value="Breton_100_CI_AI_KS_WS" />
<xs:enumeration value="Breton_100_CI_AS" />
<xs:enumeration value="Breton_100_CI_AS_WS" />
<xs:enumeration value="Breton_100_CI_AS_KS" />
<xs:enumeration value="Breton_100_CI_AS_KS_WS" />
<xs:enumeration value="Breton_100_CS_AI" />
<xs:enumeration value="Breton_100_CS_AI_WS" />
<xs:enumeration value="Breton_100_CS_AI_KS" />
<xs:enumeration value="Breton_100_CS_AI_KS_WS" />
<xs:enumeration value="Breton_100_CS_AS" />
<xs:enumeration value="Breton_100_CS_AS_WS" />
<xs:enumeration value="Breton_100_CS_AS_KS" />
<xs:enumeration value="Breton_100_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_BIN" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_BIN2" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CI_AI" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CI_AI_WS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CI_AI_KS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CI_AS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CI_AS_WS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CI_AS_KS" />

```

```
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CS_AI" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CS_AI_WS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CS_AI_KS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CS_AS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CS_AS_WS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CS_AS_KS" />
<xs:enumeration value="Chinese_Hong_Kong_Stroke_90_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_PRC_BIN" />
<xs:enumeration value="Chinese_PRC_BIN2" />
<xs:enumeration value="Chinese_PRC_CI_AI" />
<xs:enumeration value="Chinese_PRC_CI_AI_WS" />
<xs:enumeration value="Chinese_PRC_CI_AI_KS" />
<xs:enumeration value="Chinese_PRC_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_PRC_CI_AS" />
<xs:enumeration value="Chinese_PRC_CI_AS_WS" />
<xs:enumeration value="Chinese_PRC_CI_AS_KS" />
<xs:enumeration value="Chinese_PRC_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_PRC_CS_AI" />
<xs:enumeration value="Chinese_PRC_CS_AI_WS" />
<xs:enumeration value="Chinese_PRC_CS_AI_KS" />
<xs:enumeration value="Chinese_PRC_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_PRC_CS_AS" />
<xs:enumeration value="Chinese_PRC_CS_AS_WS" />
<xs:enumeration value="Chinese_PRC_CS_AS_KS" />
<xs:enumeration value="Chinese_PRC_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_PRC_90_BIN" />
<xs:enumeration value="Chinese_PRC_90_BIN2" />
<xs:enumeration value="Chinese_PRC_90_CI_AI" />
<xs:enumeration value="Chinese_PRC_90_CI_AI_WS" />
<xs:enumeration value="Chinese_PRC_90_CI_AI_KS" />
<xs:enumeration value="Chinese_PRC_90_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_PRC_90_CI_AS" />
<xs:enumeration value="Chinese_PRC_90_CI_AS_WS" />
<xs:enumeration value="Chinese_PRC_90_CI_AS_KS" />
<xs:enumeration value="Chinese_PRC_90_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_PRC_90_CS_AI" />
<xs:enumeration value="Chinese_PRC_90_CS_AI_WS" />
<xs:enumeration value="Chinese_PRC_90_CS_AI_KS" />
<xs:enumeration value="Chinese_PRC_90_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_PRC_90_CS_AS" />
<xs:enumeration value="Chinese_PRC_90_CS_AS_WS" />
<xs:enumeration value="Chinese_PRC_90_CS_AS_KS" />
<xs:enumeration value="Chinese_PRC_90_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_BIN" />
<xs:enumeration value="Chinese_PRC_Stroke_BIN2" />
<xs:enumeration value="Chinese_PRC_Stroke_CI_AI" />
<xs:enumeration value="Chinese_PRC_Stroke_CI_AI_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_CI_AI_KS" />
<xs:enumeration value="Chinese_PRC_Stroke_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_CI_AS" />
<xs:enumeration value="Chinese_PRC_Stroke_CI_AS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_CI_AS_KS" />
<xs:enumeration value="Chinese_PRC_Stroke_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_CS_AI" />
<xs:enumeration value="Chinese_PRC_Stroke_CS_AI_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_CS_AI_KS" />
<xs:enumeration value="Chinese_PRC_Stroke_CS_AI_KS_WS" />
```

```

<xs:enumeration value="Chinese_PRC_Stroke_CS_AS" />
<xs:enumeration value="Chinese_PRC_Stroke_CS_AS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_CS_AS_KS" />
<xs:enumeration value="Chinese_PRC_Stroke_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_BIN" />
<xs:enumeration value="Chinese_PRC_Stroke_90_BIN2" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CI_AI" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CI_AI_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CI_AI_KS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CI_AS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CI_AS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CI_AS_KS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CS_AI" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CS_AI_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CS_AI_KS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CS_AS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CS_AS_WS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CS_AS_KS" />
<xs:enumeration value="Chinese_PRC_Stroke_90_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_BIN" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_BIN2" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CI_AI" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CI_AI_WS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CI_AI_KS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CI_AS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CI_AS_WS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CI_AS_KS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CS_AI" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CS_AI_WS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CS_AI_KS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CS_AS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CS_AS_WS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CS_AS_KS" />
<xs:enumeration value="Chinese_Simplified_Pinyin_100_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_BIN" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_BIN2" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CI_AI" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CI_AI_WS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CI_AI_KS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CI_AS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CI_AS_WS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CI_AS_KS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CS_AI" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CS_AI_WS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CS_AI_KS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CS_AS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CS_AS_WS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CS_AS_KS" />
<xs:enumeration value="Chinese_Simplified_Stroke_Order_100_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_BIN" />

```

```

<xs:enumeration value="Chinese_Taiwan_Bopomofo_BIN2" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CI_AI" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CI_AI_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CI_AI_KS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CI_AS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CI_AS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CI_AS_KS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CS_AI" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CS_AI_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CS_AI_KS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CS_AS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CS_AS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CS_AS_KS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_BIN" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_BIN2" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CI_AI" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CI_AI_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CI_AI_KS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CI_AS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CI_AS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CI_AS_KS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CS_AI" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CS_AI_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CS_AI_KS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CS_AS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CS_AS_WS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CS_AS_KS" />
<xs:enumeration value="Chinese_Taiwan_Bopomofo_90_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_BIN" />
<xs:enumeration value="Chinese_Taiwan_Stroke_BIN2" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CI_AI" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CI_AI_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CI_AI_KS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CI_AS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CI_AS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CI_AS_KS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CS_AI" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CS_AI_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CS_AI_KS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CS_AS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CS_AS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CS_AS_KS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_BIN" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_BIN2" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CI_AI" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CI_AI_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CI_AI_KS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CI_AI_KS_WS" />

```

```

<xs:enumeration value="Chinese_Taiwan_Stroke_90_CI_AS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CI_AS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CI_AS_KS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CS_AI" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CS_AI_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CS_AI_KS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CS_AS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CS_AS_WS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CS_AS_KS" />
<xs:enumeration value="Chinese_Taiwan_Stroke_90_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_BIN" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_BIN2" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CI_AI" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CI_AI_WS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CI_AI_KS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CI_AS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CI_AS_WS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CI_AS_KS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CS_AI" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CS_AI_WS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CS_AI_KS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CS_AS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CS_AS_WS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CS_AS_KS" />
<xs:enumeration value="Chinese_Traditional_Bopomofo_100_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_BIN" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_BIN2" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CI_AI" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CI_AI_WS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CI_AI_KS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CI_AS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CI_AS_WS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CI_AS_KS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CS_AI" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CS_AI_WS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CS_AI_KS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CS_AS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CS_AS_WS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CS_AS_KS" />
<xs:enumeration value="Chinese_Traditional_Pinyin_100_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_BIN" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_BIN2" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CI_AI" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CI_AI_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CI_AI_KS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CI_AS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CI_AS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CI_AS_KS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CS_AI" />

```

```

<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CS_AI_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CS_AI_KS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CS_AS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CS_AS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CS_AS_KS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Count_100_CS_AS_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_BIN" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_BIN2" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CI_AI" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CI_AI_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CI_AI_KS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CI_AI_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CI_AS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CI_AS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CI_AS_KS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CI_AS_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CS_AI" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CS_AI_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CS_AI_KS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CS_AI_KS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CS_AS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CS_AS_WS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CS_AS_KS" />
<xs:enumeration value="Chinese_Traditional_Stroke_Order_100_CS_AS_KS_WS" />
<xs:enumeration value="Corsican_100_BIN" />
<xs:enumeration value="Corsican_100_BIN2" />
<xs:enumeration value="Corsican_100_CI_AI" />
<xs:enumeration value="Corsican_100_CI_AI_WS" />
<xs:enumeration value="Corsican_100_CI_AI_KS" />
<xs:enumeration value="Corsican_100_CI_AI_KS_WS" />
<xs:enumeration value="Corsican_100_CI_AS" />
<xs:enumeration value="Corsican_100_CI_AS_WS" />
<xs:enumeration value="Corsican_100_CI_AS_KS" />
<xs:enumeration value="Corsican_100_CI_AS_KS_WS" />
<xs:enumeration value="Corsican_100_CS_AI" />
<xs:enumeration value="Corsican_100_CS_AI_WS" />
<xs:enumeration value="Corsican_100_CS_AI_KS" />
<xs:enumeration value="Corsican_100_CS_AI_KS_WS" />
<xs:enumeration value="Corsican_100_CS_AS" />
<xs:enumeration value="Corsican_100_CS_AS_WS" />
<xs:enumeration value="Corsican_100_CS_AS_KS" />
<xs:enumeration value="Corsican_100_CS_AS_KS_WS" />
<xs:enumeration value="Croatian_BIN" />
<xs:enumeration value="Croatian_BIN2" />
<xs:enumeration value="Croatian_CI_AI" />
<xs:enumeration value="Croatian_CI_AI_WS" />
<xs:enumeration value="Croatian_CI_AI_KS" />
<xs:enumeration value="Croatian_CI_AI_KS_WS" />
<xs:enumeration value="Croatian_CI_AS" />
<xs:enumeration value="Croatian_CI_AS_WS" />
<xs:enumeration value="Croatian_CI_AS_KS" />
<xs:enumeration value="Croatian_CI_AS_KS_WS" />
<xs:enumeration value="Croatian_CS_AI" />
<xs:enumeration value="Croatian_CS_AI_WS" />
<xs:enumeration value="Croatian_CS_AI_KS" />
<xs:enumeration value="Croatian_CS_AI_KS_WS" />
<xs:enumeration value="Croatian_CS_AS" />
<xs:enumeration value="Croatian_CS_AS_WS" />

```

```
<xs:enumeration value="Croatian_CS_AS_KS" />
<xs:enumeration value="Croatian_CS_AS_KS_WS" />
<xs:enumeration value="Croatian_100_BIN" />
<xs:enumeration value="Croatian_100_BIN2" />
<xs:enumeration value="Croatian_100_CI_AI" />
<xs:enumeration value="Croatian_100_CI_AI_WS" />
<xs:enumeration value="Croatian_100_CI_AI_KS" />
<xs:enumeration value="Croatian_100_CI_AI_KS_WS" />
<xs:enumeration value="Croatian_100_CI_AS" />
<xs:enumeration value="Croatian_100_CI_AS_WS" />
<xs:enumeration value="Croatian_100_CI_AS_KS" />
<xs:enumeration value="Croatian_100_CI_AS_KS_WS" />
<xs:enumeration value="Croatian_100_CS_AI" />
<xs:enumeration value="Croatian_100_CS_AI_WS" />
<xs:enumeration value="Croatian_100_CS_AI_KS" />
<xs:enumeration value="Croatian_100_CS_AI_KS_WS" />
<xs:enumeration value="Croatian_100_CS_AS" />
<xs:enumeration value="Croatian_100_CS_AS_WS" />
<xs:enumeration value="Croatian_100_CS_AS_KS" />
<xs:enumeration value="Croatian_100_CS_AS_KS_WS" />
<xs:enumeration value="Cyrillic_General_BIN" />
<xs:enumeration value="Cyrillic_General_BIN2" />
<xs:enumeration value="Cyrillic_General_CI_AI" />
<xs:enumeration value="Cyrillic_General_CI_AI_WS" />
<xs:enumeration value="Cyrillic_General_CI_AI_KS" />
<xs:enumeration value="Cyrillic_General_CI_AI_KS_WS" />
<xs:enumeration value="Cyrillic_General_CI_AS" />
<xs:enumeration value="Cyrillic_General_CI_AS_WS" />
<xs:enumeration value="Cyrillic_General_CI_AS_KS" />
<xs:enumeration value="Cyrillic_General_CI_AS_KS_WS" />
<xs:enumeration value="Cyrillic_General_CS_AI" />
<xs:enumeration value="Cyrillic_General_CS_AI_WS" />
<xs:enumeration value="Cyrillic_General_CS_AI_KS" />
<xs:enumeration value="Cyrillic_General_CS_AI_KS_WS" />
<xs:enumeration value="Cyrillic_General_CS_AS" />
<xs:enumeration value="Cyrillic_General_CS_AS_WS" />
<xs:enumeration value="Cyrillic_General_CS_AS_KS" />
<xs:enumeration value="Cyrillic_General_CS_AS_KS_WS" />
<xs:enumeration value="Cyrillic_General_100_BIN" />
<xs:enumeration value="Cyrillic_General_100_BIN2" />
<xs:enumeration value="Cyrillic_General_100_CI_AI" />
<xs:enumeration value="Cyrillic_General_100_CI_AI_WS" />
<xs:enumeration value="Cyrillic_General_100_CI_AI_KS" />
<xs:enumeration value="Cyrillic_General_100_CI_AI_KS_WS" />
<xs:enumeration value="Cyrillic_General_100_CI_AS" />
<xs:enumeration value="Cyrillic_General_100_CI_AS_WS" />
<xs:enumeration value="Cyrillic_General_100_CI_AS_KS" />
<xs:enumeration value="Cyrillic_General_100_CI_AS_KS_WS" />
<xs:enumeration value="Cyrillic_General_100_CS_AI" />
<xs:enumeration value="Cyrillic_General_100_CS_AI_WS" />
<xs:enumeration value="Cyrillic_General_100_CS_AI_KS" />
<xs:enumeration value="Cyrillic_General_100_CS_AI_KS_WS" />
<xs:enumeration value="Cyrillic_General_100_CS_AS" />
<xs:enumeration value="Cyrillic_General_100_CS_AS_WS" />
<xs:enumeration value="Cyrillic_General_100_CS_AS_KS" />
<xs:enumeration value="Cyrillic_General_100_CS_AS_KS_WS" />
<xs:enumeration value="Czech_BIN" />
<xs:enumeration value="Czech_BIN2" />
<xs:enumeration value="Czech_CI_AI" />
```

```
<xs:enumeration value="Czech_CI_AI_WS" />
<xs:enumeration value="Czech_CI_AI_KS" />
<xs:enumeration value="Czech_CI_AI_KS_WS" />
<xs:enumeration value="Czech_CI_AS" />
<xs:enumeration value="Czech_CI_AS_WS" />
<xs:enumeration value="Czech_CI_AS_KS" />
<xs:enumeration value="Czech_CI_AS_KS_WS" />
<xs:enumeration value="Czech_CS_AI" />
<xs:enumeration value="Czech_CS_AI_WS" />
<xs:enumeration value="Czech_CS_AI_KS" />
<xs:enumeration value="Czech_CS_AI_KS_WS" />
<xs:enumeration value="Czech_CS_AS" />
<xs:enumeration value="Czech_CS_AS_WS" />
<xs:enumeration value="Czech_CS_AS_KS" />
<xs:enumeration value="Czech_CS_AS_KS_WS" />
<xs:enumeration value="Czech_100_BIN" />
<xs:enumeration value="Czech_100_BIN2" />
<xs:enumeration value="Czech_100_CI_AI" />
<xs:enumeration value="Czech_100_CI_AI_WS" />
<xs:enumeration value="Czech_100_CI_AI_KS" />
<xs:enumeration value="Czech_100_CI_AI_KS_WS" />
<xs:enumeration value="Czech_100_CI_AS" />
<xs:enumeration value="Czech_100_CI_AS_WS" />
<xs:enumeration value="Czech_100_CI_AS_KS" />
<xs:enumeration value="Czech_100_CI_AS_KS_WS" />
<xs:enumeration value="Czech_100_CS_AI" />
<xs:enumeration value="Czech_100_CS_AI_WS" />
<xs:enumeration value="Czech_100_CS_AI_KS" />
<xs:enumeration value="Czech_100_CS_AI_KS_WS" />
<xs:enumeration value="Czech_100_CS_AS" />
<xs:enumeration value="Czech_100_CS_AS_WS" />
<xs:enumeration value="Czech_100_CS_AS_KS" />
<xs:enumeration value="Czech_100_CS_AS_KS_WS" />
<xs:enumeration value="Danish_Greenlandic_100_BIN" />
<xs:enumeration value="Danish_Greenlandic_100_BIN2" />
<xs:enumeration value="Danish_Greenlandic_100_CI_AI" />
<xs:enumeration value="Danish_Greenlandic_100_CI_AI_WS" />
<xs:enumeration value="Danish_Greenlandic_100_CI_AI_KS" />
<xs:enumeration value="Danish_Greenlandic_100_CI_AI_KS_WS" />
<xs:enumeration value="Danish_Greenlandic_100_CI_AS" />
<xs:enumeration value="Danish_Greenlandic_100_CI_AS_WS" />
<xs:enumeration value="Danish_Greenlandic_100_CI_AS_KS" />
<xs:enumeration value="Danish_Greenlandic_100_CI_AS_KS_WS" />
<xs:enumeration value="Danish_Greenlandic_100_CS_AI" />
<xs:enumeration value="Danish_Greenlandic_100_CS_AI_WS" />
<xs:enumeration value="Danish_Greenlandic_100_CS_AI_KS" />
<xs:enumeration value="Danish_Greenlandic_100_CS_AI_KS_WS" />
<xs:enumeration value="Danish_Greenlandic_100_CS_AS" />
<xs:enumeration value="Danish_Greenlandic_100_CS_AS_WS" />
<xs:enumeration value="Danish_Greenlandic_100_CS_AS_KS" />
<xs:enumeration value="Danish_Greenlandic_100_CS_AS_KS_WS" />
<xs:enumeration value="Danish_Norwegian_BIN" />
<xs:enumeration value="Danish_Norwegian_BIN2" />
<xs:enumeration value="Danish_Norwegian_CI_AI" />
<xs:enumeration value="Danish_Norwegian_CI_AI_WS" />
<xs:enumeration value="Danish_Norwegian_CI_AI_KS" />
<xs:enumeration value="Danish_Norwegian_CI_AI_KS_WS" />
<xs:enumeration value="Danish_Norwegian_CI_AS" />
<xs:enumeration value="Danish_Norwegian_CI_AS_WS" />
```



```
<xs:enumeration value="Danish_Norwegian_CI_AS_KS" />
<xs:enumeration value="Danish_Norwegian_CI_AS_KS_WS" />
<xs:enumeration value="Danish_Norwegian_CS_AI" />
<xs:enumeration value="Danish_Norwegian_CS_AI_WS" />
<xs:enumeration value="Danish_Norwegian_CS_AI_KS" />
<xs:enumeration value="Danish_Norwegian_CS_AI_KS_WS" />
<xs:enumeration value="Danish_Norwegian_CS_AS" />
<xs:enumeration value="Danish_Norwegian_CS_AS_WS" />
<xs:enumeration value="Danish_Norwegian_CS_AS_KS" />
<xs:enumeration value="Danish_Norwegian_CS_AS_KS_WS" />
<xs:enumeration value="Dari_100_BIN" />
<xs:enumeration value="Dari_100_BIN2" />
<xs:enumeration value="Dari_100_CI_AI" />
<xs:enumeration value="Dari_100_CI_AI_WS" />
<xs:enumeration value="Dari_100_CI_AI_KS" />
<xs:enumeration value="Dari_100_CI_AI_KS_WS" />
<xs:enumeration value="Dari_100_CI_AS" />
<xs:enumeration value="Dari_100_CI_AS_WS" />
<xs:enumeration value="Dari_100_CI_AS_KS" />
<xs:enumeration value="Dari_100_CI_AS_KS_WS" />
<xs:enumeration value="Dari_100_CS_AI" />
<xs:enumeration value="Dari_100_CS_AI_WS" />
<xs:enumeration value="Dari_100_CS_AI_KS" />
<xs:enumeration value="Dari_100_CS_AI_KS_WS" />
<xs:enumeration value="Dari_100_CS_AS" />
<xs:enumeration value="Dari_100_CS_AS_WS" />
<xs:enumeration value="Dari_100_CS_AS_KS" />
<xs:enumeration value="Dari_100_CS_AS_KS_WS" />
<xs:enumeration value="Divehi_90_BIN" />
<xs:enumeration value="Divehi_90_BIN2" />
<xs:enumeration value="Divehi_90_CI_AI" />
<xs:enumeration value="Divehi_90_CI_AI_WS" />
<xs:enumeration value="Divehi_90_CI_AI_KS" />
<xs:enumeration value="Divehi_90_CI_AI_KS_WS" />
<xs:enumeration value="Divehi_90_CI_AS" />
<xs:enumeration value="Divehi_90_CI_AS_WS" />
<xs:enumeration value="Divehi_90_CI_AS_KS" />
<xs:enumeration value="Divehi_90_CI_AS_KS_WS" />
<xs:enumeration value="Divehi_90_CS_AI" />
<xs:enumeration value="Divehi_90_CS_AI_WS" />
<xs:enumeration value="Divehi_90_CS_AI_KS" />
<xs:enumeration value="Divehi_90_CS_AI_KS_WS" />
<xs:enumeration value="Divehi_90_CS_AS" />
<xs:enumeration value="Divehi_90_CS_AS_WS" />
<xs:enumeration value="Divehi_90_CS_AS_KS" />
<xs:enumeration value="Divehi_90_CS_AS_KS_WS" />
<xs:enumeration value="Divehi_100_BIN" />
<xs:enumeration value="Divehi_100_BIN2" />
<xs:enumeration value="Divehi_100_CI_AI" />
<xs:enumeration value="Divehi_100_CI_AI_WS" />
<xs:enumeration value="Divehi_100_CI_AI_KS" />
<xs:enumeration value="Divehi_100_CI_AI_KS_WS" />
<xs:enumeration value="Divehi_100_CI_AS" />
<xs:enumeration value="Divehi_100_CI_AS_WS" />
<xs:enumeration value="Divehi_100_CI_AS_KS" />
<xs:enumeration value="Divehi_100_CI_AS_KS_WS" />
<xs:enumeration value="Divehi_100_CS_AI" />
<xs:enumeration value="Divehi_100_CS_AI_WS" />
<xs:enumeration value="Divehi_100_CS_AI_KS" />
```

```
<xs:enumeration value="Divehi_100_CS_AI_KS_WS" />
<xs:enumeration value="Divehi_100_CS_AS" />
<xs:enumeration value="Divehi_100_CS_AS_WS" />
<xs:enumeration value="Divehi_100_CS_AS_KS" />
<xs:enumeration value="Divehi_100_CS_AS_KS_WS" />
<xs:enumeration value="Estonian_BIN" />
<xs:enumeration value="Estonian_BIN2" />
<xs:enumeration value="Estonian_CI_AI" />
<xs:enumeration value="Estonian_CI_AI_WS" />
<xs:enumeration value="Estonian_CI_AI_KS" />
<xs:enumeration value="Estonian_CI_AI_KS_WS" />
<xs:enumeration value="Estonian_CI_AS" />
<xs:enumeration value="Estonian_CI_AS_WS" />
<xs:enumeration value="Estonian_CI_AS_KS" />
<xs:enumeration value="Estonian_CI_AS_KS_WS" />
<xs:enumeration value="Estonian_CS_AI" />
<xs:enumeration value="Estonian_CS_AI_WS" />
<xs:enumeration value="Estonian_CS_AI_KS" />
<xs:enumeration value="Estonian_CS_AI_KS_WS" />
<xs:enumeration value="Estonian_CS_AS" />
<xs:enumeration value="Estonian_CS_AS_WS" />
<xs:enumeration value="Estonian_CS_AS_KS" />
<xs:enumeration value="Estonian_CS_AS_KS_WS" />
<xs:enumeration value="Estonian_100_BIN" />
<xs:enumeration value="Estonian_100_BIN2" />
<xs:enumeration value="Estonian_100_CI_AI" />
<xs:enumeration value="Estonian_100_CI_AI_WS" />
<xs:enumeration value="Estonian_100_CI_AI_KS" />
<xs:enumeration value="Estonian_100_CI_AI_KS_WS" />
<xs:enumeration value="Estonian_100_CI_AS" />
<xs:enumeration value="Estonian_100_CI_AS_WS" />
<xs:enumeration value="Estonian_100_CI_AS_KS" />
<xs:enumeration value="Estonian_100_CI_AS_KS_WS" />
<xs:enumeration value="Estonian_100_CS_AI" />
<xs:enumeration value="Estonian_100_CS_AI_WS" />
<xs:enumeration value="Estonian_100_CS_AI_KS" />
<xs:enumeration value="Estonian_100_CS_AI_KS_WS" />
<xs:enumeration value="Estonian_100_CS_AS" />
<xs:enumeration value="Estonian_100_CS_AS_WS" />
<xs:enumeration value="Estonian_100_CS_AS_KS" />
<xs:enumeration value="Estonian_100_CS_AS_KS_WS" />
<xs:enumeration value="Finnish_Swedish_BIN" />
<xs:enumeration value="Finnish_Swedish_BIN2" />
<xs:enumeration value="Finnish_Swedish_CI_AI" />
<xs:enumeration value="Finnish_Swedish_CI_AI_WS" />
<xs:enumeration value="Finnish_Swedish_CI_AI_KS" />
<xs:enumeration value="Finnish_Swedish_CI_AI_KS_WS" />
<xs:enumeration value="Finnish_Swedish_CI_AS" />
<xs:enumeration value="Finnish_Swedish_CI_AS_WS" />
<xs:enumeration value="Finnish_Swedish_CI_AS_KS" />
<xs:enumeration value="Finnish_Swedish_CI_AS_KS_WS" />
<xs:enumeration value="Finnish_Swedish_CS_AI" />
<xs:enumeration value="Finnish_Swedish_CS_AI_WS" />
<xs:enumeration value="Finnish_Swedish_CS_AI_KS" />
<xs:enumeration value="Finnish_Swedish_CS_AI_KS_WS" />
<xs:enumeration value="Finnish_Swedish_CS_AS" />
<xs:enumeration value="Finnish_Swedish_CS_AS_WS" />
<xs:enumeration value="Finnish_Swedish_CS_AS_KS" />
<xs:enumeration value="Finnish_Swedish_CS_AS_KS_WS" />
```

```

<xs:enumeration value="Finnish_Swedish_100_BIN" />
<xs:enumeration value="Finnish_Swedish_100_BIN2" />
<xs:enumeration value="Finnish_Swedish_100_CI_AI" />
<xs:enumeration value="Finnish_Swedish_100_CI_AI_WS" />
<xs:enumeration value="Finnish_Swedish_100_CI_AI_KS" />
<xs:enumeration value="Finnish_Swedish_100_CI_AI_KS_WS" />
<xs:enumeration value="Finnish_Swedish_100_CI_AS" />
<xs:enumeration value="Finnish_Swedish_100_CI_AS_WS" />
<xs:enumeration value="Finnish_Swedish_100_CI_AS_KS" />
<xs:enumeration value="Finnish_Swedish_100_CI_AS_KS_WS" />
<xs:enumeration value="Finnish_Swedish_100_CS_AI" />
<xs:enumeration value="Finnish_Swedish_100_CS_AI_WS" />
<xs:enumeration value="Finnish_Swedish_100_CS_AI_KS" />
<xs:enumeration value="Finnish_Swedish_100_CS_AI_KS_WS" />
<xs:enumeration value="Finnish_Swedish_100_CS_AS" />
<xs:enumeration value="Finnish_Swedish_100_CS_AS_WS" />
<xs:enumeration value="Finnish_Swedish_100_CS_AS_KS" />
<xs:enumeration value="Finnish_Swedish_100_CS_AS_KS_WS" />
<xs:enumeration value="French_BIN" />
<xs:enumeration value="French_BIN2" />
<xs:enumeration value="French_CI_AI" />
<xs:enumeration value="French_CI_AI_WS" />
<xs:enumeration value="French_CI_AI_KS" />
<xs:enumeration value="French_CI_AI_KS_WS" />
<xs:enumeration value="French_CI_AS" />
<xs:enumeration value="French_CI_AS_WS" />
<xs:enumeration value="French_CI_AS_KS" />
<xs:enumeration value="French_CI_AS_KS_WS" />
<xs:enumeration value="French_CS_AI" />
<xs:enumeration value="French_CS_AI_WS" />
<xs:enumeration value="French_CS_AI_KS" />
<xs:enumeration value="French_CS_AI_KS_WS" />
<xs:enumeration value="French_CS_AS" />
<xs:enumeration value="French_CS_AS_WS" />
<xs:enumeration value="French_CS_AS_KS" />
<xs:enumeration value="French_CS_AS_KS_WS" />
<xs:enumeration value="French_100_BIN" />
<xs:enumeration value="French_100_BIN2" />
<xs:enumeration value="French_100_CI_AI" />
<xs:enumeration value="French_100_CI_AI_WS" />
<xs:enumeration value="French_100_CI_AI_KS" />
<xs:enumeration value="French_100_CI_AI_KS_WS" />
<xs:enumeration value="French_100_CI_AS" />
<xs:enumeration value="French_100_CI_AS_WS" />
<xs:enumeration value="French_100_CI_AS_KS" />
<xs:enumeration value="French_100_CI_AS_KS_WS" />
<xs:enumeration value="French_100_CS_AI" />
<xs:enumeration value="French_100_CS_AI_WS" />
<xs:enumeration value="French_100_CS_AI_KS" />
<xs:enumeration value="French_100_CS_AI_KS_WS" />
<xs:enumeration value="French_100_CS_AS" />
<xs:enumeration value="French_100_CS_AS_WS" />
<xs:enumeration value="French_100_CS_AS_KS" />
<xs:enumeration value="French_100_CS_AS_KS_WS" />
<xs:enumeration value="Frisian_100_BIN" />
<xs:enumeration value="Frisian_100_BIN2" />
<xs:enumeration value="Frisian_100_CI_AI" />
<xs:enumeration value="Frisian_100_CI_AI_WS" />
<xs:enumeration value="Frisian_100_CI_AI_KS" />

```

```
<xs:enumeration value="Frisian_100_CI_AI_KS_WS" />
<xs:enumeration value="Frisian_100_CI_AS" />
<xs:enumeration value="Frisian_100_CI_AS_WS" />
<xs:enumeration value="Frisian_100_CI_AS_KS" />
<xs:enumeration value="Frisian_100_CI_AS_KS_WS" />
<xs:enumeration value="Frisian_100_CS_AI" />
<xs:enumeration value="Frisian_100_CS_AI_WS" />
<xs:enumeration value="Frisian_100_CS_AI_KS" />
<xs:enumeration value="Frisian_100_CS_AI_KS_WS" />
<xs:enumeration value="Frisian_100_CS_AS" />
<xs:enumeration value="Frisian_100_CS_AS_WS" />
<xs:enumeration value="Frisian_100_CS_AS_KS" />
<xs:enumeration value="Frisian_100_CS_AS_KS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_BIN" />
<xs:enumeration value="Georgian_Modern_Sort_BIN2" />
<xs:enumeration value="Georgian_Modern_Sort_CI_AI" />
<xs:enumeration value="Georgian_Modern_Sort_CI_AI_WS" />
<xs:enumeration value="Georgian_Modern_Sort_CI_AI_KS" />
<xs:enumeration value="Georgian_Modern_Sort_CI_AI_KS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_CI_AS" />
<xs:enumeration value="Georgian_Modern_Sort_CI_AS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_CI_AS_KS" />
<xs:enumeration value="Georgian_Modern_Sort_CI_AS_KS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_CS_AI" />
<xs:enumeration value="Georgian_Modern_Sort_CS_AI_WS" />
<xs:enumeration value="Georgian_Modern_Sort_CS_AI_KS" />
<xs:enumeration value="Georgian_Modern_Sort_CS_AI_KS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_CS_AS" />
<xs:enumeration value="Georgian_Modern_Sort_CS_AS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_CS_AS_KS" />
<xs:enumeration value="Georgian_Modern_Sort_CS_AS_KS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_100_BIN" />
<xs:enumeration value="Georgian_Modern_Sort_100_BIN2" />
<xs:enumeration value="Georgian_Modern_Sort_100_CI_AI" />
<xs:enumeration value="Georgian_Modern_Sort_100_CI_AI_WS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CI_AI_KS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CI_AI_KS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CI_AS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CI_AS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CI_AS_KS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CI_AS_KS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CS_AI" />
<xs:enumeration value="Georgian_Modern_Sort_100_CS_AI_WS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CS_AI_KS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CS_AI_KS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CS_AS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CS_AS_WS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CS_AS_KS" />
<xs:enumeration value="Georgian_Modern_Sort_100_CS_AS_KS_WS" />
<xs:enumeration value="German_PhoneBook_BIN" />
<xs:enumeration value="German_PhoneBook_BIN2" />
<xs:enumeration value="German_PhoneBook_CI_AI" />
<xs:enumeration value="German_PhoneBook_CI_AI_WS" />
<xs:enumeration value="German_PhoneBook_CI_AI_KS" />
<xs:enumeration value="German_PhoneBook_CI_AI_KS_WS" />
<xs:enumeration value="German_PhoneBook_CI_AS" />
<xs:enumeration value="German_PhoneBook_CI_AS_WS" />
<xs:enumeration value="German_PhoneBook_CI_AS_KS" />
<xs:enumeration value="German_PhoneBook_CI_AS_KS_WS" />
```

```

<xs:enumeration value="German_PhoneBook_CS_AI" />
<xs:enumeration value="German_PhoneBook_CS_AI_WS" />
<xs:enumeration value="German_PhoneBook_CS_AI_KS" />
<xs:enumeration value="German_PhoneBook_CS_AI_KS_WS" />
<xs:enumeration value="German_PhoneBook_CS_AS" />
<xs:enumeration value="German_PhoneBook_CS_AS_WS" />
<xs:enumeration value="German_PhoneBook_CS_AS_KS" />
<xs:enumeration value="German_PhoneBook_CS_AS_KS_WS" />
<xs:enumeration value="German_PhoneBook_100_BIN" />
<xs:enumeration value="German_PhoneBook_100_BIN2" />
<xs:enumeration value="German_PhoneBook_100_CI_AI" />
<xs:enumeration value="German_PhoneBook_100_CI_AI_WS" />
<xs:enumeration value="German_PhoneBook_100_CI_AI_KS" />
<xs:enumeration value="German_PhoneBook_100_CI_AI_KS_WS" />
<xs:enumeration value="German_PhoneBook_100_CI_AS" />
<xs:enumeration value="German_PhoneBook_100_CI_AS_WS" />
<xs:enumeration value="German_PhoneBook_100_CI_AS_KS" />
<xs:enumeration value="German_PhoneBook_100_CI_AS_KS_WS" />
<xs:enumeration value="German_PhoneBook_100_CS_AI" />
<xs:enumeration value="German_PhoneBook_100_CS_AI_WS" />
<xs:enumeration value="German_PhoneBook_100_CS_AI_KS" />
<xs:enumeration value="German_PhoneBook_100_CS_AI_KS_WS" />
<xs:enumeration value="German_PhoneBook_100_CS_AS" />
<xs:enumeration value="German_PhoneBook_100_CS_AS_WS" />
<xs:enumeration value="German_PhoneBook_100_CS_AS_KS" />
<xs:enumeration value="German_PhoneBook_100_CS_AS_KS_WS" />
<xs:enumeration value="Greek_BIN" />
<xs:enumeration value="Greek_BIN2" />
<xs:enumeration value="Greek_CI_AI" />
<xs:enumeration value="Greek_CI_AI_WS" />
<xs:enumeration value="Greek_CI_AI_KS" />
<xs:enumeration value="Greek_CI_AI_KS_WS" />
<xs:enumeration value="Greek_CI_AS" />
<xs:enumeration value="Greek_CI_AS_WS" />
<xs:enumeration value="Greek_CI_AS_KS" />
<xs:enumeration value="Greek_CI_AS_KS_WS" />
<xs:enumeration value="Greek_CS_AI" />
<xs:enumeration value="Greek_CS_AI_WS" />
<xs:enumeration value="Greek_CS_AI_KS" />
<xs:enumeration value="Greek_CS_AI_KS_WS" />
<xs:enumeration value="Greek_CS_AS" />
<xs:enumeration value="Greek_CS_AS_WS" />
<xs:enumeration value="Greek_CS_AS_KS" />
<xs:enumeration value="Greek_CS_AS_KS_WS" />
<xs:enumeration value="Greek_100_BIN" />
<xs:enumeration value="Greek_100_BIN2" />
<xs:enumeration value="Greek_100_CI_AI" />
<xs:enumeration value="Greek_100_CI_AI_WS" />
<xs:enumeration value="Greek_100_CI_AI_KS" />
<xs:enumeration value="Greek_100_CI_AI_KS_WS" />
<xs:enumeration value="Greek_100_CI_AS" />
<xs:enumeration value="Greek_100_CI_AS_WS" />
<xs:enumeration value="Greek_100_CI_AS_KS" />
<xs:enumeration value="Greek_100_CI_AS_KS_WS" />
<xs:enumeration value="Greek_100_CS_AI" />
<xs:enumeration value="Greek_100_CS_AI_WS" />
<xs:enumeration value="Greek_100_CS_AI_KS" />
<xs:enumeration value="Greek_100_CS_AI_KS_WS" />
<xs:enumeration value="Greek_100_CS_AS" />

```

```

<xs:enumeration value="Greek_100_CS_AS_WS" />
<xs:enumeration value="Greek_100_CS_AS_KS" />
<xs:enumeration value="Greek_100_CS_AS_KS_WS" />
<xs:enumeration value="Hebrew_BIN" />
<xs:enumeration value="Hebrew_BIN2" />
<xs:enumeration value="Hebrew_CI_AI" />
<xs:enumeration value="Hebrew_CI_AI_WS" />
<xs:enumeration value="Hebrew_CI_AI_KS" />
<xs:enumeration value="Hebrew_CI_AI_KS_WS" />
<xs:enumeration value="Hebrew_CI_AS" />
<xs:enumeration value="Hebrew_CI_AS_WS" />
<xs:enumeration value="Hebrew_CI_AS_KS" />
<xs:enumeration value="Hebrew_CI_AS_KS_WS" />
<xs:enumeration value="Hebrew_CS_AI" />
<xs:enumeration value="Hebrew_CS_AI_WS" />
<xs:enumeration value="Hebrew_CS_AI_KS" />
<xs:enumeration value="Hebrew_CS_AI_KS_WS" />
<xs:enumeration value="Hebrew_CS_AS" />
<xs:enumeration value="Hebrew_CS_AS_WS" />
<xs:enumeration value="Hebrew_CS_AS_KS" />
<xs:enumeration value="Hebrew_CS_AS_KS_WS" />
<xs:enumeration value="Hebrew_100_BIN" />
<xs:enumeration value="Hebrew_100_BIN2" />
<xs:enumeration value="Hebrew_100_CI_AI" />
<xs:enumeration value="Hebrew_100_CI_AI_WS" />
<xs:enumeration value="Hebrew_100_CI_AI_KS" />
<xs:enumeration value="Hebrew_100_CI_AI_KS_WS" />
<xs:enumeration value="Hebrew_100_CI_AS" />
<xs:enumeration value="Hebrew_100_CI_AS_WS" />
<xs:enumeration value="Hebrew_100_CI_AS_KS" />
<xs:enumeration value="Hebrew_100_CI_AS_KS_WS" />
<xs:enumeration value="Hebrew_100_CS_AI" />
<xs:enumeration value="Hebrew_100_CS_AI_WS" />
<xs:enumeration value="Hebrew_100_CS_AI_KS" />
<xs:enumeration value="Hebrew_100_CS_AI_KS_WS" />
<xs:enumeration value="Hebrew_100_CS_AS" />
<xs:enumeration value="Hebrew_100_CS_AS_WS" />
<xs:enumeration value="Hebrew_100_CS_AS_KS" />
<xs:enumeration value="Hebrew_100_CS_AS_KS_WS" />
<xs:enumeration value="Hungarian_BIN" />
<xs:enumeration value="Hungarian_BIN2" />
<xs:enumeration value="Hungarian_CI_AI" />
<xs:enumeration value="Hungarian_CI_AI_WS" />
<xs:enumeration value="Hungarian_CI_AI_KS" />
<xs:enumeration value="Hungarian_CI_AI_KS_WS" />
<xs:enumeration value="Hungarian_CI_AS" />
<xs:enumeration value="Hungarian_CI_AS_WS" />
<xs:enumeration value="Hungarian_CI_AS_KS" />
<xs:enumeration value="Hungarian_CI_AS_KS_WS" />
<xs:enumeration value="Hungarian_CS_AI" />
<xs:enumeration value="Hungarian_CS_AI_WS" />
<xs:enumeration value="Hungarian_CS_AI_KS" />
<xs:enumeration value="Hungarian_CS_AI_KS_WS" />
<xs:enumeration value="Hungarian_CS_AS" />
<xs:enumeration value="Hungarian_CS_AS_WS" />
<xs:enumeration value="Hungarian_CS_AS_KS" />
<xs:enumeration value="Hungarian_CS_AS_KS_WS" />
<xs:enumeration value="Hungarian_100_BIN" />
<xs:enumeration value="Hungarian_100_BIN2" />

```

```

<xs:enumeration value="Hungarian_100_CI_AI" />
<xs:enumeration value="Hungarian_100_CI_AI_WS" />
<xs:enumeration value="Hungarian_100_CI_AI_KS" />
<xs:enumeration value="Hungarian_100_CI_AI_KS_WS" />
<xs:enumeration value="Hungarian_100_CI_AS" />
<xs:enumeration value="Hungarian_100_CI_AS_WS" />
<xs:enumeration value="Hungarian_100_CI_AS_KS" />
<xs:enumeration value="Hungarian_100_CI_AS_KS_WS" />
<xs:enumeration value="Hungarian_100_CS_AI" />
<xs:enumeration value="Hungarian_100_CS_AI_WS" />
<xs:enumeration value="Hungarian_100_CS_AI_KS" />
<xs:enumeration value="Hungarian_100_CS_AI_KS_WS" />
<xs:enumeration value="Hungarian_100_CS_AS" />
<xs:enumeration value="Hungarian_100_CS_AS_WS" />
<xs:enumeration value="Hungarian_100_CS_AS_KS" />
<xs:enumeration value="Hungarian_100_CS_AS_KS_WS" />
<xs:enumeration value="Hungarian_Technical_BIN" />
<xs:enumeration value="Hungarian_Technical_BIN2" />
<xs:enumeration value="Hungarian_Technical_CI_AI" />
<xs:enumeration value="Hungarian_Technical_CI_AI_WS" />
<xs:enumeration value="Hungarian_Technical_CI_AI_KS" />
<xs:enumeration value="Hungarian_Technical_CI_AI_KS_WS" />
<xs:enumeration value="Hungarian_Technical_CI_AS" />
<xs:enumeration value="Hungarian_Technical_CI_AS_WS" />
<xs:enumeration value="Hungarian_Technical_CI_AS_KS" />
<xs:enumeration value="Hungarian_Technical_CI_AS_KS_WS" />
<xs:enumeration value="Hungarian_Technical_CS_AI" />
<xs:enumeration value="Hungarian_Technical_CS_AI_WS" />
<xs:enumeration value="Hungarian_Technical_CS_AI_KS" />
<xs:enumeration value="Hungarian_Technical_CS_AI_KS_WS" />
<xs:enumeration value="Hungarian_Technical_CS_AS" />
<xs:enumeration value="Hungarian_Technical_CS_AS_WS" />
<xs:enumeration value="Hungarian_Technical_CS_AS_KS" />
<xs:enumeration value="Hungarian_Technical_CS_AS_KS_WS" />
<xs:enumeration value="Hungarian_Technical_100_BIN" />
<xs:enumeration value="Hungarian_Technical_100_BIN2" />
<xs:enumeration value="Hungarian_Technical_100_CI_AI" />
<xs:enumeration value="Hungarian_Technical_100_CI_AI_WS" />
<xs:enumeration value="Hungarian_Technical_100_CI_AI_KS" />
<xs:enumeration value="Hungarian_Technical_100_CI_AI_KS_WS" />
<xs:enumeration value="Hungarian_Technical_100_CI_AS" />
<xs:enumeration value="Hungarian_Technical_100_CI_AS_WS" />
<xs:enumeration value="Hungarian_Technical_100_CI_AS_KS" />
<xs:enumeration value="Hungarian_Technical_100_CI_AS_KS_WS" />
<xs:enumeration value="Hungarian_Technical_100_CS_AI" />
<xs:enumeration value="Hungarian_Technical_100_CS_AI_WS" />
<xs:enumeration value="Hungarian_Technical_100_CS_AI_KS" />
<xs:enumeration value="Hungarian_Technical_100_CS_AI_KS_WS" />
<xs:enumeration value="Hungarian_Technical_100_CS_AS" />
<xs:enumeration value="Hungarian_Technical_100_CS_AS_WS" />
<xs:enumeration value="Hungarian_Technical_100_CS_AS_KS" />
<xs:enumeration value="Hungarian_Technical_100_CS_AS_KS_WS" />
<xs:enumeration value="Icelandic_BIN" />
<xs:enumeration value="Icelandic_BIN2" />
<xs:enumeration value="Icelandic_CI_AI" />
<xs:enumeration value="Icelandic_CI_AI_WS" />
<xs:enumeration value="Icelandic_CI_AI_KS" />
<xs:enumeration value="Icelandic_CI_AI_KS_WS" />
<xs:enumeration value="Icelandic_CI_AS" />

```

```
<xs:enumeration value="Icelandic_CI_AS_WS" />
<xs:enumeration value="Icelandic_CI_AS_KS" />
<xs:enumeration value="Icelandic_CI_AS_KS_WS" />
<xs:enumeration value="Icelandic_CS_AI" />
<xs:enumeration value="Icelandic_CS_AI_WS" />
<xs:enumeration value="Icelandic_CS_AI_KS" />
<xs:enumeration value="Icelandic_CS_AI_KS_WS" />
<xs:enumeration value="Icelandic_CS_AS" />
<xs:enumeration value="Icelandic_CS_AS_WS" />
<xs:enumeration value="Icelandic_CS_AS_KS" />
<xs:enumeration value="Icelandic_CS_AS_KS_WS" />
<xs:enumeration value="Icelandic_100_BIN" />
<xs:enumeration value="Icelandic_100_BIN2" />
<xs:enumeration value="Icelandic_100_CI_AI" />
<xs:enumeration value="Icelandic_100_CI_AI_WS" />
<xs:enumeration value="Icelandic_100_CI_AI_KS" />
<xs:enumeration value="Icelandic_100_CI_AI_KS_WS" />
<xs:enumeration value="Icelandic_100_CI_AS" />
<xs:enumeration value="Icelandic_100_CI_AS_WS" />
<xs:enumeration value="Icelandic_100_CI_AS_KS" />
<xs:enumeration value="Icelandic_100_CI_AS_KS_WS" />
<xs:enumeration value="Icelandic_100_CS_AI" />
<xs:enumeration value="Icelandic_100_CS_AI_WS" />
<xs:enumeration value="Icelandic_100_CS_AI_KS" />
<xs:enumeration value="Icelandic_100_CS_AI_KS_WS" />
<xs:enumeration value="Icelandic_100_CS_AS" />
<xs:enumeration value="Icelandic_100_CS_AS_WS" />
<xs:enumeration value="Icelandic_100_CS_AS_KS" />
<xs:enumeration value="Icelandic_100_CS_AS_KS_WS" />
<xs:enumeration value="Indic_General_90_BIN" />
<xs:enumeration value="Indic_General_90_BIN2" />
<xs:enumeration value="Indic_General_90_CI_AI" />
<xs:enumeration value="Indic_General_90_CI_AI_WS" />
<xs:enumeration value="Indic_General_90_CI_AI_KS" />
<xs:enumeration value="Indic_General_90_CI_AI_KS_WS" />
<xs:enumeration value="Indic_General_90_CI_AS" />
<xs:enumeration value="Indic_General_90_CI_AS_WS" />
<xs:enumeration value="Indic_General_90_CI_AS_KS" />
<xs:enumeration value="Indic_General_90_CI_AS_KS_WS" />
<xs:enumeration value="Indic_General_90_CS_AI" />
<xs:enumeration value="Indic_General_90_CS_AI_WS" />
<xs:enumeration value="Indic_General_90_CS_AI_KS" />
<xs:enumeration value="Indic_General_90_CS_AI_KS_WS" />
<xs:enumeration value="Indic_General_90_CS_AS" />
<xs:enumeration value="Indic_General_90_CS_AS_WS" />
<xs:enumeration value="Indic_General_90_CS_AS_KS" />
<xs:enumeration value="Indic_General_90_CS_AS_KS_WS" />
<xs:enumeration value="Indic_General_100_BIN" />
<xs:enumeration value="Indic_General_100_BIN2" />
<xs:enumeration value="Indic_General_100_CI_AI" />
<xs:enumeration value="Indic_General_100_CI_AI_WS" />
<xs:enumeration value="Indic_General_100_CI_AI_KS" />
<xs:enumeration value="Indic_General_100_CI_AI_KS_WS" />
<xs:enumeration value="Indic_General_100_CI_AS" />
<xs:enumeration value="Indic_General_100_CI_AS_WS" />
<xs:enumeration value="Indic_General_100_CI_AS_KS" />
<xs:enumeration value="Indic_General_100_CI_AS_KS_WS" />
<xs:enumeration value="Indic_General_100_CS_AI" />
<xs:enumeration value="Indic_General_100_CS_AI_WS" />
```



```

<xs:enumeration value="Indic_General_100_CS_AI_KS" />
<xs:enumeration value="Indic_General_100_CS_AI_KS_WS" />
<xs:enumeration value="Indic_General_100_CS_AS" />
<xs:enumeration value="Indic_General_100_CS_AS_WS" />
<xs:enumeration value="Indic_General_100_CS_AS_KS" />
<xs:enumeration value="Indic_General_100_CS_AS_KS_WS" />
<xs:enumeration value="Japanese_BIN" />
<xs:enumeration value="Japanese_BIN2" />
<xs:enumeration value="Japanese_CI_AI" />
<xs:enumeration value="Japanese_CI_AI_WS" />
<xs:enumeration value="Japanese_CI_AI_KS" />
<xs:enumeration value="Japanese_CI_AI_KS_WS" />
<xs:enumeration value="Japanese_CI_AS" />
<xs:enumeration value="Japanese_CI_AS_WS" />
<xs:enumeration value="Japanese_CI_AS_KS" />
<xs:enumeration value="Japanese_CI_AS_KS_WS" />
<xs:enumeration value="Japanese_CS_AI" />
<xs:enumeration value="Japanese_CS_AI_WS" />
<xs:enumeration value="Japanese_CS_AI_KS" />
<xs:enumeration value="Japanese_CS_AI_KS_WS" />
<xs:enumeration value="Japanese_CS_AS" />
<xs:enumeration value="Japanese_CS_AS_WS" />
<xs:enumeration value="Japanese_CS_AS_KS" />
<xs:enumeration value="Japanese_CS_AS_KS_WS" />
<xs:enumeration value="Japanese_90_BIN" />
<xs:enumeration value="Japanese_90_BIN2" />
<xs:enumeration value="Japanese_90_CI_AI" />
<xs:enumeration value="Japanese_90_CI_AI_WS" />
<xs:enumeration value="Japanese_90_CI_AI_KS" />
<xs:enumeration value="Japanese_90_CI_AI_KS_WS" />
<xs:enumeration value="Japanese_90_CI_AS" />
<xs:enumeration value="Japanese_90_CI_AS_WS" />
<xs:enumeration value="Japanese_90_CI_AS_KS" />
<xs:enumeration value="Japanese_90_CI_AS_KS_WS" />
<xs:enumeration value="Japanese_90_CS_AI" />
<xs:enumeration value="Japanese_90_CS_AI_WS" />
<xs:enumeration value="Japanese_90_CS_AI_KS" />
<xs:enumeration value="Japanese_90_CS_AI_KS_WS" />
<xs:enumeration value="Japanese_90_CS_AS" />
<xs:enumeration value="Japanese_90_CS_AS_WS" />
<xs:enumeration value="Japanese_90_CS_AS_KS" />
<xs:enumeration value="Japanese_90_CS_AS_KS_WS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_BIN" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_BIN2" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CI_AI" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CI_AI_WS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CI_AI_KS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CI_AI_KS_WS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CI_AS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CI_AS_WS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CI_AS_KS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CI_AS_KS_WS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CS_AI" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CS_AI_WS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CS_AI_KS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CS_AI_KS_WS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CS_AS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CS_AS_WS" />
<xs:enumeration value="Japanese_Bushu_Kakusu_100_CS_AS_KS" />

```

```

<xs:enumeration value="Japanese_Bushu_Kakusu_100_CS_AS_KS_WS" />
<xs:enumeration value="Japanese_Unicode_BIN" />
<xs:enumeration value="Japanese_Unicode_BIN2" />
<xs:enumeration value="Japanese_Unicode_CI_AI" />
<xs:enumeration value="Japanese_Unicode_CI_AI_WS" />
<xs:enumeration value="Japanese_Unicode_CI_AI_KS" />
<xs:enumeration value="Japanese_Unicode_CI_AI_KS_WS" />
<xs:enumeration value="Japanese_Unicode_CI_AS" />
<xs:enumeration value="Japanese_Unicode_CI_AS_WS" />
<xs:enumeration value="Japanese_Unicode_CI_AS_KS" />
<xs:enumeration value="Japanese_Unicode_CI_AS_KS_WS" />
<xs:enumeration value="Japanese_Unicode_CS_AI" />
<xs:enumeration value="Japanese_Unicode_CS_AI_WS" />
<xs:enumeration value="Japanese_Unicode_CS_AI_KS" />
<xs:enumeration value="Japanese_Unicode_CS_AI_KS_WS" />
<xs:enumeration value="Japanese_Unicode_CS_AS" />
<xs:enumeration value="Japanese_Unicode_CS_AS_WS" />
<xs:enumeration value="Japanese_Unicode_CS_AS_KS" />
<xs:enumeration value="Japanese_Unicode_CS_AS_KS_WS" />
<xs:enumeration value="Japanese_XJIS_100_BIN" />
<xs:enumeration value="Japanese_XJIS_100_BIN2" />
<xs:enumeration value="Japanese_XJIS_100_CI_AI" />
<xs:enumeration value="Japanese_XJIS_100_CI_AI_WS" />
<xs:enumeration value="Japanese_XJIS_100_CI_AI_KS" />
<xs:enumeration value="Japanese_XJIS_100_CI_AI_KS_WS" />
<xs:enumeration value="Japanese_XJIS_100_CI_AS" />
<xs:enumeration value="Japanese_XJIS_100_CI_AS_WS" />
<xs:enumeration value="Japanese_XJIS_100_CI_AS_KS" />
<xs:enumeration value="Japanese_XJIS_100_CI_AS_KS_WS" />
<xs:enumeration value="Japanese_XJIS_100_CS_AI" />
<xs:enumeration value="Japanese_XJIS_100_CS_AI_WS" />
<xs:enumeration value="Japanese_XJIS_100_CS_AI_KS" />
<xs:enumeration value="Japanese_XJIS_100_CS_AI_KS_WS" />
<xs:enumeration value="Japanese_XJIS_100_CS_AS" />
<xs:enumeration value="Japanese_XJIS_100_CS_AS_WS" />
<xs:enumeration value="Japanese_XJIS_100_CS_AS_KS" />
<xs:enumeration value="Japanese_XJIS_100_CS_AS_KS_WS" />
<xs:enumeration value="Kazakh_90_BIN" />
<xs:enumeration value="Kazakh_90_BIN2" />
<xs:enumeration value="Kazakh_90_CI_AI" />
<xs:enumeration value="Kazakh_90_CI_AI_WS" />
<xs:enumeration value="Kazakh_90_CI_AI_KS" />
<xs:enumeration value="Kazakh_90_CI_AI_KS_WS" />
<xs:enumeration value="Kazakh_90_CI_AS" />
<xs:enumeration value="Kazakh_90_CI_AS_WS" />
<xs:enumeration value="Kazakh_90_CI_AS_KS" />
<xs:enumeration value="Kazakh_90_CI_AS_KS_WS" />
<xs:enumeration value="Kazakh_90_CS_AI" />
<xs:enumeration value="Kazakh_90_CS_AI_WS" />
<xs:enumeration value="Kazakh_90_CS_AI_KS" />
<xs:enumeration value="Kazakh_90_CS_AI_KS_WS" />
<xs:enumeration value="Kazakh_90_CS_AS" />
<xs:enumeration value="Kazakh_90_CS_AS_WS" />
<xs:enumeration value="Kazakh_90_CS_AS_KS" />
<xs:enumeration value="Kazakh_90_CS_AS_KS_WS" />
<xs:enumeration value="Kazakh_100_BIN" />
<xs:enumeration value="Kazakh_100_BIN2" />
<xs:enumeration value="Kazakh_100_CI_AI" />
<xs:enumeration value="Kazakh_100_CI_AI_WS" />

```

```
<xs:enumeration value="Kazakh_100_CI_AI_KS" />
<xs:enumeration value="Kazakh_100_CI_AI_KS_WS" />
<xs:enumeration value="Kazakh_100_CI_AS" />
<xs:enumeration value="Kazakh_100_CI_AS_WS" />
<xs:enumeration value="Kazakh_100_CI_AS_KS" />
<xs:enumeration value="Kazakh_100_CI_AS_KS_WS" />
<xs:enumeration value="Kazakh_100_CS_AI" />
<xs:enumeration value="Kazakh_100_CS_AI_WS" />
<xs:enumeration value="Kazakh_100_CS_AI_KS" />
<xs:enumeration value="Kazakh_100_CS_AI_KS_WS" />
<xs:enumeration value="Kazakh_100_CS_AS" />
<xs:enumeration value="Kazakh_100_CS_AS_WS" />
<xs:enumeration value="Kazakh_100_CS_AS_KS" />
<xs:enumeration value="Kazakh_100_CS_AS_KS_WS" />
<xs:enumeration value="Khmer_100_BIN" />
<xs:enumeration value="Khmer_100_BIN2" />
<xs:enumeration value="Khmer_100_CI_AI" />
<xs:enumeration value="Khmer_100_CI_AI_WS" />
<xs:enumeration value="Khmer_100_CI_AI_KS" />
<xs:enumeration value="Khmer_100_CI_AI_KS_WS" />
<xs:enumeration value="Khmer_100_CI_AS" />
<xs:enumeration value="Khmer_100_CI_AS_WS" />
<xs:enumeration value="Khmer_100_CI_AS_KS" />
<xs:enumeration value="Khmer_100_CI_AS_KS_WS" />
<xs:enumeration value="Khmer_100_CS_AI" />
<xs:enumeration value="Khmer_100_CS_AI_WS" />
<xs:enumeration value="Khmer_100_CS_AI_KS" />
<xs:enumeration value="Khmer_100_CS_AI_KS_WS" />
<xs:enumeration value="Khmer_100_CS_AS" />
<xs:enumeration value="Khmer_100_CS_AS_WS" />
<xs:enumeration value="Khmer_100_CS_AS_KS" />
<xs:enumeration value="Khmer_100_CS_AS_KS_WS" />
<xs:enumeration value="Korean_90_BIN" />
<xs:enumeration value="Korean_90_BIN2" />
<xs:enumeration value="Korean_90_CI_AI" />
<xs:enumeration value="Korean_90_CI_AI_WS" />
<xs:enumeration value="Korean_90_CI_AI_KS" />
<xs:enumeration value="Korean_90_CI_AI_KS_WS" />
<xs:enumeration value="Korean_90_CI_AS" />
<xs:enumeration value="Korean_90_CI_AS_WS" />
<xs:enumeration value="Korean_90_CI_AS_KS" />
<xs:enumeration value="Korean_90_CI_AS_KS_WS" />
<xs:enumeration value="Korean_90_CS_AI" />
<xs:enumeration value="Korean_90_CS_AI_WS" />
<xs:enumeration value="Korean_90_CS_AI_KS" />
<xs:enumeration value="Korean_90_CS_AI_KS_WS" />
<xs:enumeration value="Korean_90_CS_AS" />
<xs:enumeration value="Korean_90_CS_AS_WS" />
<xs:enumeration value="Korean_90_CS_AS_KS" />
<xs:enumeration value="Korean_90_CS_AS_KS_WS" />
<xs:enumeration value="Korean_100_BIN" />
<xs:enumeration value="Korean_100_BIN2" />
<xs:enumeration value="Korean_100_CI_AI" />
<xs:enumeration value="Korean_100_CI_AI_WS" />
<xs:enumeration value="Korean_100_CI_AI_KS" />
<xs:enumeration value="Korean_100_CI_AI_KS_WS" />
<xs:enumeration value="Korean_100_CI_AS" />
<xs:enumeration value="Korean_100_CI_AS_WS" />
<xs:enumeration value="Korean_100_CI_AS_KS" />
```

```
<xs:enumeration value="Korean_100_CI_AS_KS_WS" />
<xs:enumeration value="Korean_100_CS_AI" />
<xs:enumeration value="Korean_100_CS_AI_WS" />
<xs:enumeration value="Korean_100_CS_AI_KS" />
<xs:enumeration value="Korean_100_CS_AI_KS_WS" />
<xs:enumeration value="Korean_100_CS_AS" />
<xs:enumeration value="Korean_100_CS_AS_WS" />
<xs:enumeration value="Korean_100_CS_AS_KS" />
<xs:enumeration value="Korean_100_CS_AS_KS_WS" />
<xs:enumeration value="Korean_Wansung_BIN" />
<xs:enumeration value="Korean_Wansung_BIN2" />
<xs:enumeration value="Korean_Wansung_CI_AI" />
<xs:enumeration value="Korean_Wansung_CI_AI_WS" />
<xs:enumeration value="Korean_Wansung_CI_AI_KS" />
<xs:enumeration value="Korean_Wansung_CI_AI_KS_WS" />
<xs:enumeration value="Korean_Wansung_CI_AS" />
<xs:enumeration value="Korean_Wansung_CI_AS_WS" />
<xs:enumeration value="Korean_Wansung_CI_AS_KS" />
<xs:enumeration value="Korean_Wansung_CI_AS_KS_WS" />
<xs:enumeration value="Korean_Wansung_CS_AI" />
<xs:enumeration value="Korean_Wansung_CS_AI_WS" />
<xs:enumeration value="Korean_Wansung_CS_AI_KS" />
<xs:enumeration value="Korean_Wansung_CS_AI_KS_WS" />
<xs:enumeration value="Korean_Wansung_CS_AS" />
<xs:enumeration value="Korean_Wansung_CS_AS_WS" />
<xs:enumeration value="Korean_Wansung_CS_AS_KS" />
<xs:enumeration value="Korean_Wansung_CS_AS_KS_WS" />
<xs:enumeration value="Lao_100_BIN" />
<xs:enumeration value="Lao_100_BIN2" />
<xs:enumeration value="Lao_100_CI_AI" />
<xs:enumeration value="Lao_100_CI_AI_WS" />
<xs:enumeration value="Lao_100_CI_AI_KS" />
<xs:enumeration value="Lao_100_CI_AI_KS_WS" />
<xs:enumeration value="Lao_100_CI_AS" />
<xs:enumeration value="Lao_100_CI_AS_WS" />
<xs:enumeration value="Lao_100_CI_AS_KS" />
<xs:enumeration value="Lao_100_CI_AS_KS_WS" />
<xs:enumeration value="Lao_100_CS_AI" />
<xs:enumeration value="Lao_100_CS_AI_WS" />
<xs:enumeration value="Lao_100_CS_AI_KS" />
<xs:enumeration value="Lao_100_CS_AI_KS_WS" />
<xs:enumeration value="Lao_100_CS_AS" />
<xs:enumeration value="Lao_100_CS_AS_WS" />
<xs:enumeration value="Lao_100_CS_AS_KS" />
<xs:enumeration value="Lao_100_CS_AS_KS_WS" />
<xs:enumeration value="Latin1_General_BIN" />
<xs:enumeration value="Latin1_General_BIN2" />
<xs:enumeration value="Latin1_General_CI_AI" />
<xs:enumeration value="Latin1_General_CI_AI_WS" />
<xs:enumeration value="Latin1_General_CI_AI_KS" />
<xs:enumeration value="Latin1_General_CI_AI_KS_WS" />
<xs:enumeration value="Latin1_General_CI_AS" />
<xs:enumeration value="Latin1_General_CI_AS_WS" />
<xs:enumeration value="Latin1_General_CI_AS_KS" />
<xs:enumeration value="Latin1_General_CI_AS_KS_WS" />
<xs:enumeration value="Latin1_General_CS_AI" />
<xs:enumeration value="Latin1_General_CS_AI_WS" />
<xs:enumeration value="Latin1_General_CS_AI_KS" />
<xs:enumeration value="Latin1_General_CS_AI_KS_WS" />
```

```
<xs:enumeration value="Latin1_General_CS_AS" />
<xs:enumeration value="Latin1_General_CS_AS_WS" />
<xs:enumeration value="Latin1_General_CS_AS_KS" />
<xs:enumeration value="Latin1_General_CS_AS_KS_WS" />
<xs:enumeration value="Latin1_General_100_BIN" />
<xs:enumeration value="Latin1_General_100_BIN2" />
<xs:enumeration value="Latin1_General_100_CI_AI" />
<xs:enumeration value="Latin1_General_100_CI_AI_WS" />
<xs:enumeration value="Latin1_General_100_CI_AI_KS" />
<xs:enumeration value="Latin1_General_100_CI_AI_KS_WS" />
<xs:enumeration value="Latin1_General_100_CI_AS" />
<xs:enumeration value="Latin1_General_100_CI_AS_WS" />
<xs:enumeration value="Latin1_General_100_CI_AS_KS" />
<xs:enumeration value="Latin1_General_100_CI_AS_KS_WS" />
<xs:enumeration value="Latin1_General_100_CS_AI" />
<xs:enumeration value="Latin1_General_100_CS_AI_WS" />
<xs:enumeration value="Latin1_General_100_CS_AI_KS" />
<xs:enumeration value="Latin1_General_100_CS_AI_KS_WS" />
<xs:enumeration value="Latin1_General_100_CS_AS" />
<xs:enumeration value="Latin1_General_100_CS_AS_WS" />
<xs:enumeration value="Latin1_General_100_CS_AS_KS" />
<xs:enumeration value="Latin1_General_100_CS_AS_KS_WS" />
<xs:enumeration value="Latvian_BIN" />
<xs:enumeration value="Latvian_BIN2" />
<xs:enumeration value="Latvian_CI_AI" />
<xs:enumeration value="Latvian_CI_AI_WS" />
<xs:enumeration value="Latvian_CI_AI_KS" />
<xs:enumeration value="Latvian_CI_AI_KS_WS" />
<xs:enumeration value="Latvian_CI_AS" />
<xs:enumeration value="Latvian_CI_AS_WS" />
<xs:enumeration value="Latvian_CI_AS_KS" />
<xs:enumeration value="Latvian_CI_AS_KS_WS" />
<xs:enumeration value="Latvian_CS_AI" />
<xs:enumeration value="Latvian_CS_AI_WS" />
<xs:enumeration value="Latvian_CS_AI_KS" />
<xs:enumeration value="Latvian_CS_AI_KS_WS" />
<xs:enumeration value="Latvian_CS_AS" />
<xs:enumeration value="Latvian_CS_AS_WS" />
<xs:enumeration value="Latvian_CS_AS_KS" />
<xs:enumeration value="Latvian_CS_AS_KS_WS" />
<xs:enumeration value="Latvian_100_BIN" />
<xs:enumeration value="Latvian_100_BIN2" />
<xs:enumeration value="Latvian_100_CI_AI" />
<xs:enumeration value="Latvian_100_CI_AI_WS" />
<xs:enumeration value="Latvian_100_CI_AI_KS" />
<xs:enumeration value="Latvian_100_CI_AI_KS_WS" />
<xs:enumeration value="Latvian_100_CI_AS" />
<xs:enumeration value="Latvian_100_CI_AS_WS" />
<xs:enumeration value="Latvian_100_CI_AS_KS" />
<xs:enumeration value="Latvian_100_CI_AS_KS_WS" />
<xs:enumeration value="Latvian_100_CS_AI" />
<xs:enumeration value="Latvian_100_CS_AI_WS" />
<xs:enumeration value="Latvian_100_CS_AI_KS" />
<xs:enumeration value="Latvian_100_CS_AI_KS_WS" />
<xs:enumeration value="Latvian_100_CS_AS" />
<xs:enumeration value="Latvian_100_CS_AS_WS" />
<xs:enumeration value="Latvian_100_CS_AS_KS" />
<xs:enumeration value="Latvian_100_CS_AS_KS_WS" />
<xs:enumeration value="Lithuanian_BIN" />
```

```
<xs:enumeration value="Lithuanian_BIN2" />
<xs:enumeration value="Lithuanian_CI_AI" />
<xs:enumeration value="Lithuanian_CI_AI_WS" />
<xs:enumeration value="Lithuanian_CI_AI_KS" />
<xs:enumeration value="Lithuanian_CI_AI_KS_WS" />
<xs:enumeration value="Lithuanian_CI_AS" />
<xs:enumeration value="Lithuanian_CI_AS_WS" />
<xs:enumeration value="Lithuanian_CI_AS_KS" />
<xs:enumeration value="Lithuanian_CI_AS_KS_WS" />
<xs:enumeration value="Lithuanian_CS_AI" />
<xs:enumeration value="Lithuanian_CS_AI_WS" />
<xs:enumeration value="Lithuanian_CS_AI_KS" />
<xs:enumeration value="Lithuanian_CS_AI_KS_WS" />
<xs:enumeration value="Lithuanian_CS_AS" />
<xs:enumeration value="Lithuanian_CS_AS_WS" />
<xs:enumeration value="Lithuanian_CS_AS_KS" />
<xs:enumeration value="Lithuanian_CS_AS_KS_WS" />
<xs:enumeration value="Lithuanian_100_BIN" />
<xs:enumeration value="Lithuanian_100_BIN2" />
<xs:enumeration value="Lithuanian_100_CI_AI" />
<xs:enumeration value="Lithuanian_100_CI_AI_WS" />
<xs:enumeration value="Lithuanian_100_CI_AI_KS" />
<xs:enumeration value="Lithuanian_100_CI_AI_KS_WS" />
<xs:enumeration value="Lithuanian_100_CI_AS" />
<xs:enumeration value="Lithuanian_100_CI_AS_WS" />
<xs:enumeration value="Lithuanian_100_CI_AS_KS" />
<xs:enumeration value="Lithuanian_100_CI_AS_KS_WS" />
<xs:enumeration value="Lithuanian_100_CS_AI" />
<xs:enumeration value="Lithuanian_100_CS_AI_WS" />
<xs:enumeration value="Lithuanian_100_CS_AI_KS" />
<xs:enumeration value="Lithuanian_100_CS_AI_KS_WS" />
<xs:enumeration value="Lithuanian_100_CS_AS" />
<xs:enumeration value="Lithuanian_100_CS_AS_WS" />
<xs:enumeration value="Lithuanian_100_CS_AS_KS" />
<xs:enumeration value="Lithuanian_100_CS_AS_KS_WS" />
<xs:enumeration value="Macedonian_FYROM_90_BIN" />
<xs:enumeration value="Macedonian_FYROM_90_BIN2" />
<xs:enumeration value="Macedonian_FYROM_90_CI_AI" />
<xs:enumeration value="Macedonian_FYROM_90_CI_AI_WS" />
<xs:enumeration value="Macedonian_FYROM_90_CI_AI_KS" />
<xs:enumeration value="Macedonian_FYROM_90_CI_AI_KS_WS" />
<xs:enumeration value="Macedonian_FYROM_90_CI_AS" />
<xs:enumeration value="Macedonian_FYROM_90_CI_AS_WS" />
<xs:enumeration value="Macedonian_FYROM_90_CI_AS_KS" />
<xs:enumeration value="Macedonian_FYROM_90_CI_AS_KS_WS" />
<xs:enumeration value="Macedonian_FYROM_90_CS_AI" />
<xs:enumeration value="Macedonian_FYROM_90_CS_AI_WS" />
<xs:enumeration value="Macedonian_FYROM_90_CS_AI_KS" />
<xs:enumeration value="Macedonian_FYROM_90_CS_AI_KS_WS" />
<xs:enumeration value="Macedonian_FYROM_90_CS_AS" />
<xs:enumeration value="Macedonian_FYROM_90_CS_AS_WS" />
<xs:enumeration value="Macedonian_FYROM_90_CS_AS_KS" />
<xs:enumeration value="Macedonian_FYROM_90_CS_AS_KS_WS" />
<xs:enumeration value="Macedonian_FYROM_100_BIN" />
<xs:enumeration value="Macedonian_FYROM_100_BIN2" />
<xs:enumeration value="Macedonian_FYROM_100_CI_AI" />
<xs:enumeration value="Macedonian_FYROM_100_CI_AI_WS" />
<xs:enumeration value="Macedonian_FYROM_100_CI_AI_KS" />
<xs:enumeration value="Macedonian_FYROM_100_CI_AI_KS_WS" />
```

```
<xs:enumeration value="Macedonian_FYROM_100_CI_AS" />
<xs:enumeration value="Macedonian_FYROM_100_CI_AS_WS" />
<xs:enumeration value="Macedonian_FYROM_100_CI_AS_KS" />
<xs:enumeration value="Macedonian_FYROM_100_CI_AS_KS_WS" />
<xs:enumeration value="Macedonian_FYROM_100_CS_AI" />
<xs:enumeration value="Macedonian_FYROM_100_CS_AI_WS" />
<xs:enumeration value="Macedonian_FYROM_100_CS_AI_KS" />
<xs:enumeration value="Macedonian_FYROM_100_CS_AI_KS_WS" />
<xs:enumeration value="Macedonian_FYROM_100_CS_AS" />
<xs:enumeration value="Macedonian_FYROM_100_CS_AS_WS" />
<xs:enumeration value="Macedonian_FYROM_100_CS_AS_KS" />
<xs:enumeration value="Macedonian_FYROM_100_CS_AS_KS_WS" />
<xs:enumeration value="Maltese_100_BIN" />
<xs:enumeration value="Maltese_100_BIN2" />
<xs:enumeration value="Maltese_100_CI_AI" />
<xs:enumeration value="Maltese_100_CI_AI_WS" />
<xs:enumeration value="Maltese_100_CI_AI_KS" />
<xs:enumeration value="Maltese_100_CI_AI_KS_WS" />
<xs:enumeration value="Maltese_100_CI_AS" />
<xs:enumeration value="Maltese_100_CI_AS_WS" />
<xs:enumeration value="Maltese_100_CI_AS_KS" />
<xs:enumeration value="Maltese_100_CI_AS_KS_WS" />
<xs:enumeration value="Maltese_100_CS_AI" />
<xs:enumeration value="Maltese_100_CS_AI_WS" />
<xs:enumeration value="Maltese_100_CS_AI_KS" />
<xs:enumeration value="Maltese_100_CS_AI_KS_WS" />
<xs:enumeration value="Maltese_100_CS_AS" />
<xs:enumeration value="Maltese_100_CS_AS_WS" />
<xs:enumeration value="Maltese_100_CS_AS_KS" />
<xs:enumeration value="Maltese_100_CS_AS_KS_WS" />
<xs:enumeration value="Maori_100_BIN" />
<xs:enumeration value="Maori_100_BIN2" />
<xs:enumeration value="Maori_100_CI_AI" />
<xs:enumeration value="Maori_100_CI_AI_WS" />
<xs:enumeration value="Maori_100_CI_AI_KS" />
<xs:enumeration value="Maori_100_CI_AI_KS_WS" />
<xs:enumeration value="Maori_100_CI_AS" />
<xs:enumeration value="Maori_100_CI_AS_WS" />
<xs:enumeration value="Maori_100_CI_AS_KS" />
<xs:enumeration value="Maori_100_CI_AS_KS_WS" />
<xs:enumeration value="Maori_100_CS_AI" />
<xs:enumeration value="Maori_100_CS_AI_WS" />
<xs:enumeration value="Maori_100_CS_AI_KS" />
<xs:enumeration value="Maori_100_CS_AI_KS_WS" />
<xs:enumeration value="Maori_100_CS_AS" />
<xs:enumeration value="Maori_100_CS_AS_WS" />
<xs:enumeration value="Maori_100_CS_AS_KS" />
<xs:enumeration value="Maori_100_CS_AS_KS_WS" />
<xs:enumeration value="Mapudungan_100_BIN" />
<xs:enumeration value="Mapudungan_100_BIN2" />
<xs:enumeration value="Mapudungan_100_CI_AI" />
<xs:enumeration value="Mapudungan_100_CI_AI_WS" />
<xs:enumeration value="Mapudungan_100_CI_AI_KS" />
<xs:enumeration value="Mapudungan_100_CI_AI_KS_WS" />
<xs:enumeration value="Mapudungan_100_CI_AS" />
<xs:enumeration value="Mapudungan_100_CI_AS_WS" />
<xs:enumeration value="Mapudungan_100_CI_AS_KS" />
<xs:enumeration value="Mapudungan_100_CI_AS_KS_WS" />
<xs:enumeration value="Mapudungan_100_CS_AI" />
```

```
<xs:enumeration value="Mapudungan_100_CS_AI_WS" />
<xs:enumeration value="Mapudungan_100_CS_AI_KS" />
<xs:enumeration value="Mapudungan_100_CS_AI_KS_WS" />
<xs:enumeration value="Mapudungan_100_CS_AS" />
<xs:enumeration value="Mapudungan_100_CS_AS_WS" />
<xs:enumeration value="Mapudungan_100_CS_AS_KS" />
<xs:enumeration value="Mapudungan_100_CS_AS_KS_WS" />
<xs:enumeration value="Modern_Spanish_BIN" />
<xs:enumeration value="Modern_Spanish_BIN2" />
<xs:enumeration value="Modern_Spanish_CI_AI" />
<xs:enumeration value="Modern_Spanish_CI_AI_WS" />
<xs:enumeration value="Modern_Spanish_CI_AI_KS" />
<xs:enumeration value="Modern_Spanish_CI_AI_KS_WS" />
<xs:enumeration value="Modern_Spanish_CI_AS" />
<xs:enumeration value="Modern_Spanish_CI_AS_WS" />
<xs:enumeration value="Modern_Spanish_CI_AS_KS" />
<xs:enumeration value="Modern_Spanish_CI_AS_KS_WS" />
<xs:enumeration value="Modern_Spanish_CS_AI" />
<xs:enumeration value="Modern_Spanish_CS_AI_WS" />
<xs:enumeration value="Modern_Spanish_CS_AI_KS" />
<xs:enumeration value="Modern_Spanish_CS_AI_KS_WS" />
<xs:enumeration value="Modern_Spanish_CS_AS" />
<xs:enumeration value="Modern_Spanish_CS_AS_WS" />
<xs:enumeration value="Modern_Spanish_CS_AS_KS" />
<xs:enumeration value="Modern_Spanish_CS_AS_KS_WS" />
<xs:enumeration value="Modern_Spanish_100_BIN" />
<xs:enumeration value="Modern_Spanish_100_BIN2" />
<xs:enumeration value="Modern_Spanish_100_CI_AI" />
<xs:enumeration value="Modern_Spanish_100_CI_AI_WS" />
<xs:enumeration value="Modern_Spanish_100_CI_AI_KS" />
<xs:enumeration value="Modern_Spanish_100_CI_AI_KS_WS" />
<xs:enumeration value="Modern_Spanish_100_CI_AS" />
<xs:enumeration value="Modern_Spanish_100_CI_AS_WS" />
<xs:enumeration value="Modern_Spanish_100_CI_AS_KS" />
<xs:enumeration value="Modern_Spanish_100_CI_AS_KS_WS" />
<xs:enumeration value="Modern_Spanish_100_CS_AI" />
<xs:enumeration value="Modern_Spanish_100_CS_AI_WS" />
<xs:enumeration value="Modern_Spanish_100_CS_AI_KS" />
<xs:enumeration value="Modern_Spanish_100_CS_AI_KS_WS" />
<xs:enumeration value="Modern_Spanish_100_CS_AS" />
<xs:enumeration value="Modern_Spanish_100_CS_AS_WS" />
<xs:enumeration value="Modern_Spanish_100_CS_AS_KS" />
<xs:enumeration value="Modern_Spanish_100_CS_AS_KS_WS" />
<xs:enumeration value="Mohawk_100_BIN" />
<xs:enumeration value="Mohawk_100_BIN2" />
<xs:enumeration value="Mohawk_100_CI_AI" />
<xs:enumeration value="Mohawk_100_CI_AI_WS" />
<xs:enumeration value="Mohawk_100_CI_AI_KS" />
<xs:enumeration value="Mohawk_100_CI_AI_KS_WS" />
<xs:enumeration value="Mohawk_100_CI_AS" />
<xs:enumeration value="Mohawk_100_CI_AS_WS" />
<xs:enumeration value="Mohawk_100_CI_AS_KS" />
<xs:enumeration value="Mohawk_100_CI_AS_KS_WS" />
<xs:enumeration value="Mohawk_100_CS_AI" />
<xs:enumeration value="Mohawk_100_CS_AI_WS" />
<xs:enumeration value="Mohawk_100_CS_AI_KS" />
<xs:enumeration value="Mohawk_100_CS_AI_KS_WS" />
<xs:enumeration value="Mohawk_100_CS_AS" />
<xs:enumeration value="Mohawk_100_CS_AS_WS" />
```



```

<xs:enumeration value="Mohawk_100_CS_AS_KS" />
<xs:enumeration value="Mohawk_100_CS_AS_KS_WS" />
<xs:enumeration value="Nepali_100_BIN" />
<xs:enumeration value="Nepali_100_BIN2" />
<xs:enumeration value="Nepali_100_CI_AI" />
<xs:enumeration value="Nepali_100_CI_AI_WS" />
<xs:enumeration value="Nepali_100_CI_AI_KS" />
<xs:enumeration value="Nepali_100_CI_AI_KS_WS" />
<xs:enumeration value="Nepali_100_CI_AS" />
<xs:enumeration value="Nepali_100_CI_AS_WS" />
<xs:enumeration value="Nepali_100_CI_AS_KS" />
<xs:enumeration value="Nepali_100_CI_AS_KS_WS" />
<xs:enumeration value="Nepali_100_CS_AI" />
<xs:enumeration value="Nepali_100_CS_AI_WS" />
<xs:enumeration value="Nepali_100_CS_AI_KS" />
<xs:enumeration value="Nepali_100_CS_AI_KS_WS" />
<xs:enumeration value="Nepali_100_CS_AS" />
<xs:enumeration value="Nepali_100_CS_AS_WS" />
<xs:enumeration value="Nepali_100_CS_AS_KS" />
<xs:enumeration value="Nepali_100_CS_AS_KS_WS" />
<xs:enumeration value="Norwegian_100_BIN" />
<xs:enumeration value="Norwegian_100_BIN2" />
<xs:enumeration value="Norwegian_100_CI_AI" />
<xs:enumeration value="Norwegian_100_CI_AI_WS" />
<xs:enumeration value="Norwegian_100_CI_AI_KS" />
<xs:enumeration value="Norwegian_100_CI_AI_KS_WS" />
<xs:enumeration value="Norwegian_100_CI_AS" />
<xs:enumeration value="Norwegian_100_CI_AS_WS" />
<xs:enumeration value="Norwegian_100_CI_AS_KS" />
<xs:enumeration value="Norwegian_100_CI_AS_KS_WS" />
<xs:enumeration value="Norwegian_100_CS_AI" />
<xs:enumeration value="Norwegian_100_CS_AI_WS" />
<xs:enumeration value="Norwegian_100_CS_AI_KS" />
<xs:enumeration value="Norwegian_100_CS_AI_KS_WS" />
<xs:enumeration value="Norwegian_100_CS_AS" />
<xs:enumeration value="Norwegian_100_CS_AS_WS" />
<xs:enumeration value="Norwegian_100_CS_AS_KS" />
<xs:enumeration value="Norwegian_100_CS_AS_KS_WS" />
<xs:enumeration value="Pashto_100_BIN" />
<xs:enumeration value="Pashto_100_BIN2" />
<xs:enumeration value="Pashto_100_CI_AI" />
<xs:enumeration value="Pashto_100_CI_AI_WS" />
<xs:enumeration value="Pashto_100_CI_AI_KS" />
<xs:enumeration value="Pashto_100_CI_AI_KS_WS" />
<xs:enumeration value="Pashto_100_CI_AS" />
<xs:enumeration value="Pashto_100_CI_AS_WS" />
<xs:enumeration value="Pashto_100_CI_AS_KS" />
<xs:enumeration value="Pashto_100_CI_AS_KS_WS" />
<xs:enumeration value="Pashto_100_CS_AI" />
<xs:enumeration value="Pashto_100_CS_AI_WS" />
<xs:enumeration value="Pashto_100_CS_AI_KS" />
<xs:enumeration value="Pashto_100_CS_AI_KS_WS" />
<xs:enumeration value="Pashto_100_CS_AS" />
<xs:enumeration value="Pashto_100_CS_AS_WS" />
<xs:enumeration value="Pashto_100_CS_AS_KS" />
<xs:enumeration value="Pashto_100_CS_AS_KS_WS" />
<xs:enumeration value="Persian_100_BIN" />
<xs:enumeration value="Persian_100_BIN2" />
<xs:enumeration value="Persian_100_CI_AI" />

```

```
<xs:enumeration value="Persian_100_CI_AI_WS" />
<xs:enumeration value="Persian_100_CI_AI_KS" />
<xs:enumeration value="Persian_100_CI_AI_KS_WS" />
<xs:enumeration value="Persian_100_CI_AS" />
<xs:enumeration value="Persian_100_CI_AS_WS" />
<xs:enumeration value="Persian_100_CI_AS_KS" />
<xs:enumeration value="Persian_100_CI_AS_KS_WS" />
<xs:enumeration value="Persian_100_CS_AI" />
<xs:enumeration value="Persian_100_CS_AI_WS" />
<xs:enumeration value="Persian_100_CS_AI_KS" />
<xs:enumeration value="Persian_100_CS_AI_KS_WS" />
<xs:enumeration value="Persian_100_CS_AS" />
<xs:enumeration value="Persian_100_CS_AS_WS" />
<xs:enumeration value="Persian_100_CS_AS_KS" />
<xs:enumeration value="Persian_100_CS_AS_KS_WS" />
<xs:enumeration value="Polish_BIN" />
<xs:enumeration value="Polish_BIN2" />
<xs:enumeration value="Polish_CI_AI" />
<xs:enumeration value="Polish_CI_AI_WS" />
<xs:enumeration value="Polish_CI_AI_KS" />
<xs:enumeration value="Polish_CI_AI_KS_WS" />
<xs:enumeration value="Polish_CI_AS" />
<xs:enumeration value="Polish_CI_AS_WS" />
<xs:enumeration value="Polish_CI_AS_KS" />
<xs:enumeration value="Polish_CI_AS_KS_WS" />
<xs:enumeration value="Polish_CS_AI" />
<xs:enumeration value="Polish_CS_AI_WS" />
<xs:enumeration value="Polish_CS_AI_KS" />
<xs:enumeration value="Polish_CS_AI_KS_WS" />
<xs:enumeration value="Polish_CS_AS" />
<xs:enumeration value="Polish_CS_AS_WS" />
<xs:enumeration value="Polish_CS_AS_KS" />
<xs:enumeration value="Polish_CS_AS_KS_WS" />
<xs:enumeration value="Polish_100_BIN" />
<xs:enumeration value="Polish_100_BIN2" />
<xs:enumeration value="Polish_100_CI_AI" />
<xs:enumeration value="Polish_100_CI_AI_WS" />
<xs:enumeration value="Polish_100_CI_AI_KS" />
<xs:enumeration value="Polish_100_CI_AI_KS_WS" />
<xs:enumeration value="Polish_100_CI_AS" />
<xs:enumeration value="Polish_100_CI_AS_WS" />
<xs:enumeration value="Polish_100_CI_AS_KS" />
<xs:enumeration value="Polish_100_CI_AS_KS_WS" />
<xs:enumeration value="Polish_100_CS_AI" />
<xs:enumeration value="Polish_100_CS_AI_WS" />
<xs:enumeration value="Polish_100_CS_AI_KS" />
<xs:enumeration value="Polish_100_CS_AI_KS_WS" />
<xs:enumeration value="Polish_100_CS_AS" />
<xs:enumeration value="Polish_100_CS_AS_WS" />
<xs:enumeration value="Polish_100_CS_AS_KS" />
<xs:enumeration value="Polish_100_CS_AS_KS_WS" />
<xs:enumeration value="Romanian_BIN" />
<xs:enumeration value="Romanian_BIN2" />
<xs:enumeration value="Romanian_CI_AI" />
<xs:enumeration value="Romanian_CI_AI_WS" />
<xs:enumeration value="Romanian_CI_AI_KS" />
<xs:enumeration value="Romanian_CI_AI_KS_WS" />
<xs:enumeration value="Romanian_CI_AS" />
<xs:enumeration value="Romanian_CI_AS_WS" />
```

```

<xs:enumeration value="Romanian_CI_AS_KS" />
<xs:enumeration value="Romanian_CI_AS_KS_WS" />
<xs:enumeration value="Romanian_CS_AI" />
<xs:enumeration value="Romanian_CS_AI_WS" />
<xs:enumeration value="Romanian_CS_AI_KS" />
<xs:enumeration value="Romanian_CS_AI_KS_WS" />
<xs:enumeration value="Romanian_CS_AS" />
<xs:enumeration value="Romanian_CS_AS_WS" />
<xs:enumeration value="Romanian_CS_AS_KS" />
<xs:enumeration value="Romanian_CS_AS_KS_WS" />
<xs:enumeration value="Romanian_100_BIN" />
<xs:enumeration value="Romanian_100_BIN2" />
<xs:enumeration value="Romanian_100_CI_AI" />
<xs:enumeration value="Romanian_100_CI_AI_WS" />
<xs:enumeration value="Romanian_100_CI_AI_KS" />
<xs:enumeration value="Romanian_100_CI_AI_KS_WS" />
<xs:enumeration value="Romanian_100_CI_AS" />
<xs:enumeration value="Romanian_100_CI_AS_WS" />
<xs:enumeration value="Romanian_100_CI_AS_KS" />
<xs:enumeration value="Romanian_100_CI_AS_KS_WS" />
<xs:enumeration value="Romanian_100_CS_AI" />
<xs:enumeration value="Romanian_100_CS_AI_WS" />
<xs:enumeration value="Romanian_100_CS_AI_KS" />
<xs:enumeration value="Romanian_100_CS_AI_KS_WS" />
<xs:enumeration value="Romanian_100_CS_AS" />
<xs:enumeration value="Romanian_100_CS_AS_WS" />
<xs:enumeration value="Romanian_100_CS_AS_KS" />
<xs:enumeration value="Romanian_100_CS_AS_KS_WS" />
<xs:enumeration value="Romansh_100_BIN" />
<xs:enumeration value="Romansh_100_BIN2" />
<xs:enumeration value="Romansh_100_CI_AI" />
<xs:enumeration value="Romansh_100_CI_AI_WS" />
<xs:enumeration value="Romansh_100_CI_AI_KS" />
<xs:enumeration value="Romansh_100_CI_AI_KS_WS" />
<xs:enumeration value="Romansh_100_CI_AS" />
<xs:enumeration value="Romansh_100_CI_AS_WS" />
<xs:enumeration value="Romansh_100_CI_AS_KS" />
<xs:enumeration value="Romansh_100_CI_AS_KS_WS" />
<xs:enumeration value="Romansh_100_CS_AI" />
<xs:enumeration value="Romansh_100_CS_AI_WS" />
<xs:enumeration value="Romansh_100_CS_AI_KS" />
<xs:enumeration value="Romansh_100_CS_AI_KS_WS" />
<xs:enumeration value="Romansh_100_CS_AS" />
<xs:enumeration value="Romansh_100_CS_AS_WS" />
<xs:enumeration value="Romansh_100_CS_AS_KS" />
<xs:enumeration value="Romansh_100_CS_AS_KS_WS" />
<xs:enumeration value="Sami_Norway_100_BIN" />
<xs:enumeration value="Sami_Norway_100_BIN2" />
<xs:enumeration value="Sami_Norway_100_CI_AI" />
<xs:enumeration value="Sami_Norway_100_CI_AI_WS" />
<xs:enumeration value="Sami_Norway_100_CI_AI_KS" />
<xs:enumeration value="Sami_Norway_100_CI_AI_KS_WS" />
<xs:enumeration value="Sami_Norway_100_CI_AS" />
<xs:enumeration value="Sami_Norway_100_CI_AS_WS" />
<xs:enumeration value="Sami_Norway_100_CI_AS_KS" />
<xs:enumeration value="Sami_Norway_100_CI_AS_KS_WS" />
<xs:enumeration value="Sami_Norway_100_CS_AI" />
<xs:enumeration value="Sami_Norway_100_CS_AI_WS" />
<xs:enumeration value="Sami_Norway_100_CS_AI_KS" />

```

```
<xs:enumeration value="Sami_Norway_100_CS_AI_KS_WS" />
<xs:enumeration value="Sami_Norway_100_CS_AS" />
<xs:enumeration value="Sami_Norway_100_CS_AS_WS" />
<xs:enumeration value="Sami_Norway_100_CS_AS_KS" />
<xs:enumeration value="Sami_Norway_100_CS_AS_KS_WS" />
<xs:enumeration value="Sami_Sweden_Finland_100_BIN" />
<xs:enumeration value="Sami_Sweden_Finland_100_BIN2" />
<xs:enumeration value="Sami_Sweden_Finland_100_CI_AI" />
<xs:enumeration value="Sami_Sweden_Finland_100_CI_AI_WS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CI_AI_KS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CI_AI_KS_WS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CI_AS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CI_AS_WS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CI_AS_KS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CI_AS_KS_WS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CS_AI" />
<xs:enumeration value="Sami_Sweden_Finland_100_CS_AI_WS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CS_AI_KS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CS_AI_KS_WS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CS_AS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CS_AS_WS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CS_AS_KS" />
<xs:enumeration value="Sami_Sweden_Finland_100_CS_AS_KS_WS" />
<xs:enumeration value="Serbian_Cyrillic_100_BIN" />
<xs:enumeration value="Serbian_Cyrillic_100_BIN2" />
<xs:enumeration value="Serbian_Cyrillic_100_CI_AI" />
<xs:enumeration value="Serbian_Cyrillic_100_CI_AI_WS" />
<xs:enumeration value="Serbian_Cyrillic_100_CI_AI_KS" />
<xs:enumeration value="Serbian_Cyrillic_100_CI_AI_KS_WS" />
<xs:enumeration value="Serbian_Cyrillic_100_CI_AS" />
<xs:enumeration value="Serbian_Cyrillic_100_CI_AS_WS" />
<xs:enumeration value="Serbian_Cyrillic_100_CI_AS_KS" />
<xs:enumeration value="Serbian_Cyrillic_100_CI_AS_KS_WS" />
<xs:enumeration value="Serbian_Cyrillic_100_CS_AI" />
<xs:enumeration value="Serbian_Cyrillic_100_CS_AI_WS" />
<xs:enumeration value="Serbian_Cyrillic_100_CS_AI_KS" />
<xs:enumeration value="Serbian_Cyrillic_100_CS_AI_KS_WS" />
<xs:enumeration value="Serbian_Cyrillic_100_CS_AS" />
<xs:enumeration value="Serbian_Cyrillic_100_CS_AS_WS" />
<xs:enumeration value="Serbian_Cyrillic_100_CS_AS_KS" />
<xs:enumeration value="Serbian_Cyrillic_100_CS_AS_KS_WS" />
<xs:enumeration value="Serbian_Latin_100_BIN" />
<xs:enumeration value="Serbian_Latin_100_BIN2" />
<xs:enumeration value="Serbian_Latin_100_CI_AI" />
<xs:enumeration value="Serbian_Latin_100_CI_AI_WS" />
<xs:enumeration value="Serbian_Latin_100_CI_AI_KS" />
<xs:enumeration value="Serbian_Latin_100_CI_AI_KS_WS" />
<xs:enumeration value="Serbian_Latin_100_CI_AS" />
<xs:enumeration value="Serbian_Latin_100_CI_AS_WS" />
<xs:enumeration value="Serbian_Latin_100_CI_AS_KS" />
<xs:enumeration value="Serbian_Latin_100_CI_AS_KS_WS" />
<xs:enumeration value="Serbian_Latin_100_CS_AI" />
<xs:enumeration value="Serbian_Latin_100_CS_AI_WS" />
<xs:enumeration value="Serbian_Latin_100_CS_AI_KS" />
<xs:enumeration value="Serbian_Latin_100_CS_AI_KS_WS" />
<xs:enumeration value="Serbian_Latin_100_CS_AS" />
<xs:enumeration value="Serbian_Latin_100_CS_AS_WS" />
<xs:enumeration value="Serbian_Latin_100_CS_AS_KS" />
<xs:enumeration value="Serbian_Latin_100_CS_AS_KS_WS" />
```

```
<xs:enumeration value="Slovak_BIN" />
<xs:enumeration value="Slovak_BIN2" />
<xs:enumeration value="Slovak_CI_AI" />
<xs:enumeration value="Slovak_CI_AI_WS" />
<xs:enumeration value="Slovak_CI_AI_KS" />
<xs:enumeration value="Slovak_CI_AI_KS_WS" />
<xs:enumeration value="Slovak_CI_AS" />
<xs:enumeration value="Slovak_CI_AS_WS" />
<xs:enumeration value="Slovak_CI_AS_KS" />
<xs:enumeration value="Slovak_CI_AS_KS_WS" />
<xs:enumeration value="Slovak_CS_AI" />
<xs:enumeration value="Slovak_CS_AI_WS" />
<xs:enumeration value="Slovak_CS_AI_KS" />
<xs:enumeration value="Slovak_CS_AI_KS_WS" />
<xs:enumeration value="Slovak_CS_AS" />
<xs:enumeration value="Slovak_CS_AS_WS" />
<xs:enumeration value="Slovak_CS_AS_KS" />
<xs:enumeration value="Slovak_CS_AS_KS_WS" />
<xs:enumeration value="Slovak_100_BIN" />
<xs:enumeration value="Slovak_100_BIN2" />
<xs:enumeration value="Slovak_100_CI_AI" />
<xs:enumeration value="Slovak_100_CI_AI_WS" />
<xs:enumeration value="Slovak_100_CI_AI_KS" />
<xs:enumeration value="Slovak_100_CI_AI_KS_WS" />
<xs:enumeration value="Slovak_100_CI_AS" />
<xs:enumeration value="Slovak_100_CI_AS_WS" />
<xs:enumeration value="Slovak_100_CI_AS_KS" />
<xs:enumeration value="Slovak_100_CI_AS_KS_WS" />
<xs:enumeration value="Slovak_100_CS_AI" />
<xs:enumeration value="Slovak_100_CS_AI_WS" />
<xs:enumeration value="Slovak_100_CS_AI_KS" />
<xs:enumeration value="Slovak_100_CS_AI_KS_WS" />
<xs:enumeration value="Slovak_100_CS_AS" />
<xs:enumeration value="Slovak_100_CS_AS_WS" />
<xs:enumeration value="Slovak_100_CS_AS_KS" />
<xs:enumeration value="Slovak_100_CS_AS_KS_WS" />
<xs:enumeration value="Slovenian_BIN" />
<xs:enumeration value="Slovenian_BIN2" />
<xs:enumeration value="Slovenian_CI_AI" />
<xs:enumeration value="Slovenian_CI_AI_WS" />
<xs:enumeration value="Slovenian_CI_AI_KS" />
<xs:enumeration value="Slovenian_CI_AI_KS_WS" />
<xs:enumeration value="Slovenian_CI_AS" />
<xs:enumeration value="Slovenian_CI_AS_WS" />
<xs:enumeration value="Slovenian_CI_AS_KS" />
<xs:enumeration value="Slovenian_CI_AS_KS_WS" />
<xs:enumeration value="Slovenian_CS_AI" />
<xs:enumeration value="Slovenian_CS_AI_WS" />
<xs:enumeration value="Slovenian_CS_AI_KS" />
<xs:enumeration value="Slovenian_CS_AI_KS_WS" />
<xs:enumeration value="Slovenian_CS_AS" />
<xs:enumeration value="Slovenian_CS_AS_WS" />
<xs:enumeration value="Slovenian_CS_AS_KS" />
<xs:enumeration value="Slovenian_CS_AS_KS_WS" />
<xs:enumeration value="Slovenian_100_BIN" />
<xs:enumeration value="Slovenian_100_BIN2" />
<xs:enumeration value="Slovenian_100_CI_AI" />
<xs:enumeration value="Slovenian_100_CI_AI_WS" />
<xs:enumeration value="Slovenian_100_CI_AI_KS" />
```

```
<xs:enumeration value="Slovenian_100_CI_AI_KS_WS" />
<xs:enumeration value="Slovenian_100_CI_AS" />
<xs:enumeration value="Slovenian_100_CI_AS_WS" />
<xs:enumeration value="Slovenian_100_CI_AS_KS" />
<xs:enumeration value="Slovenian_100_CI_AS_KS_WS" />
<xs:enumeration value="Slovenian_100_CS_AI" />
<xs:enumeration value="Slovenian_100_CS_AI_WS" />
<xs:enumeration value="Slovenian_100_CS_AI_KS" />
<xs:enumeration value="Slovenian_100_CS_AI_KS_WS" />
<xs:enumeration value="Slovenian_100_CS_AS" />
<xs:enumeration value="Slovenian_100_CS_AS_WS" />
<xs:enumeration value="Slovenian_100_CS_AS_KS" />
<xs:enumeration value="Slovenian_100_CS_AS_KS_WS" />
<xs:enumeration value="Syriac_90_BIN" />
<xs:enumeration value="Syriac_90_BIN2" />
<xs:enumeration value="Syriac_90_CI_AI" />
<xs:enumeration value="Syriac_90_CI_AI_WS" />
<xs:enumeration value="Syriac_90_CI_AI_KS" />
<xs:enumeration value="Syriac_90_CI_AI_KS_WS" />
<xs:enumeration value="Syriac_90_CI_AS" />
<xs:enumeration value="Syriac_90_CI_AS_WS" />
<xs:enumeration value="Syriac_90_CI_AS_KS" />
<xs:enumeration value="Syriac_90_CI_AS_KS_WS" />
<xs:enumeration value="Syriac_90_CS_AI" />
<xs:enumeration value="Syriac_90_CS_AI_WS" />
<xs:enumeration value="Syriac_90_CS_AI_KS" />
<xs:enumeration value="Syriac_90_CS_AI_KS_WS" />
<xs:enumeration value="Syriac_90_CS_AS" />
<xs:enumeration value="Syriac_90_CS_AS_WS" />
<xs:enumeration value="Syriac_90_CS_AS_KS" />
<xs:enumeration value="Syriac_90_CS_AS_KS_WS" />
<xs:enumeration value="Syriac_100_BIN" />
<xs:enumeration value="Syriac_100_BIN2" />
<xs:enumeration value="Syriac_100_CI_AI" />
<xs:enumeration value="Syriac_100_CI_AI_WS" />
<xs:enumeration value="Syriac_100_CI_AI_KS" />
<xs:enumeration value="Syriac_100_CI_AI_KS_WS" />
<xs:enumeration value="Syriac_100_CI_AS" />
<xs:enumeration value="Syriac_100_CI_AS_WS" />
<xs:enumeration value="Syriac_100_CI_AS_KS" />
<xs:enumeration value="Syriac_100_CI_AS_KS_WS" />
<xs:enumeration value="Syriac_100_CS_AI" />
<xs:enumeration value="Syriac_100_CS_AI_WS" />
<xs:enumeration value="Syriac_100_CS_AI_KS" />
<xs:enumeration value="Syriac_100_CS_AI_KS_WS" />
<xs:enumeration value="Syriac_100_CS_AS" />
<xs:enumeration value="Syriac_100_CS_AS_WS" />
<xs:enumeration value="Syriac_100_CS_AS_KS" />
<xs:enumeration value="Syriac_100_CS_AS_KS_WS" />
<xs:enumeration value="Tamazight_100_BIN" />
<xs:enumeration value="Tamazight_100_BIN2" />
<xs:enumeration value="Tamazight_100_CI_AI" />
<xs:enumeration value="Tamazight_100_CI_AI_WS" />
<xs:enumeration value="Tamazight_100_CI_AI_KS" />
<xs:enumeration value="Tamazight_100_CI_AI_KS_WS" />
<xs:enumeration value="Tamazight_100_CI_AS" />
<xs:enumeration value="Tamazight_100_CI_AS_WS" />
<xs:enumeration value="Tamazight_100_CI_AS_KS" />
<xs:enumeration value="Tamazight_100_CI_AS_KS_WS" />
```

```

<xs:enumeration value="Tamazight_100_CS_AI" />
<xs:enumeration value="Tamazight_100_CS_AI_WS" />
<xs:enumeration value="Tamazight_100_CS_AI_KS" />
<xs:enumeration value="Tamazight_100_CS_AI_KS_WS" />
<xs:enumeration value="Tamazight_100_CS_AS" />
<xs:enumeration value="Tamazight_100_CS_AS_WS" />
<xs:enumeration value="Tamazight_100_CS_AS_KS" />
<xs:enumeration value="Tamazight_100_CS_AS_KS_WS" />
<xs:enumeration value="Tatar_90_BIN" />
<xs:enumeration value="Tatar_90_BIN2" />
<xs:enumeration value="Tatar_90_CI_AI" />
<xs:enumeration value="Tatar_90_CI_AI_WS" />
<xs:enumeration value="Tatar_90_CI_AI_KS" />
<xs:enumeration value="Tatar_90_CI_AI_KS_WS" />
<xs:enumeration value="Tatar_90_CI_AS" />
<xs:enumeration value="Tatar_90_CI_AS_WS" />
<xs:enumeration value="Tatar_90_CI_AS_KS" />
<xs:enumeration value="Tatar_90_CI_AS_KS_WS" />
<xs:enumeration value="Tatar_90_CS_AI" />
<xs:enumeration value="Tatar_90_CS_AI_WS" />
<xs:enumeration value="Tatar_90_CS_AI_KS" />
<xs:enumeration value="Tatar_90_CS_AI_KS_WS" />
<xs:enumeration value="Tatar_90_CS_AS" />
<xs:enumeration value="Tatar_90_CS_AS_WS" />
<xs:enumeration value="Tatar_90_CS_AS_KS" />
<xs:enumeration value="Tatar_90_CS_AS_KS_WS" />
<xs:enumeration value="Tatar_100_BIN" />
<xs:enumeration value="Tatar_100_BIN2" />
<xs:enumeration value="Tatar_100_CI_AI" />
<xs:enumeration value="Tatar_100_CI_AI_WS" />
<xs:enumeration value="Tatar_100_CI_AI_KS" />
<xs:enumeration value="Tatar_100_CI_AI_KS_WS" />
<xs:enumeration value="Tatar_100_CI_AS" />
<xs:enumeration value="Tatar_100_CI_AS_WS" />
<xs:enumeration value="Tatar_100_CI_AS_KS" />
<xs:enumeration value="Tatar_100_CI_AS_KS_WS" />
<xs:enumeration value="Tatar_100_CS_AI" />
<xs:enumeration value="Tatar_100_CS_AI_WS" />
<xs:enumeration value="Tatar_100_CS_AI_KS" />
<xs:enumeration value="Tatar_100_CS_AI_KS_WS" />
<xs:enumeration value="Tatar_100_CS_AS" />
<xs:enumeration value="Tatar_100_CS_AS_WS" />
<xs:enumeration value="Tatar_100_CS_AS_KS" />
<xs:enumeration value="Tatar_100_CS_AS_KS_WS" />
<xs:enumeration value="Thai_BIN" />
<xs:enumeration value="Thai_BIN2" />
<xs:enumeration value="Thai_CI_AI" />
<xs:enumeration value="Thai_CI_AI_WS" />
<xs:enumeration value="Thai_CI_AI_KS" />
<xs:enumeration value="Thai_CI_AI_KS_WS" />
<xs:enumeration value="Thai_CI_AS" />
<xs:enumeration value="Thai_CI_AS_WS" />
<xs:enumeration value="Thai_CI_AS_KS" />
<xs:enumeration value="Thai_CI_AS_KS_WS" />
<xs:enumeration value="Thai_CS_AI" />
<xs:enumeration value="Thai_CS_AI_WS" />
<xs:enumeration value="Thai_CS_AI_KS" />
<xs:enumeration value="Thai_CS_AI_KS_WS" />
<xs:enumeration value="Thai_CS_AS" />

```

```
<xs:enumeration value="Thai_CS_AS_WS" />
<xs:enumeration value="Thai_CS_AS_KS" />
<xs:enumeration value="Thai_CS_AS_KS_WS" />
<xs:enumeration value="Thai_100_BIN" />
<xs:enumeration value="Thai_100_BIN2" />
<xs:enumeration value="Thai_100_CI_AI" />
<xs:enumeration value="Thai_100_CI_AI_WS" />
<xs:enumeration value="Thai_100_CI_AI_KS" />
<xs:enumeration value="Thai_100_CI_AI_KS_WS" />
<xs:enumeration value="Thai_100_CI_AS" />
<xs:enumeration value="Thai_100_CI_AS_WS" />
<xs:enumeration value="Thai_100_CI_AS_KS" />
<xs:enumeration value="Thai_100_CI_AS_KS_WS" />
<xs:enumeration value="Thai_100_CS_AI" />
<xs:enumeration value="Thai_100_CS_AI_WS" />
<xs:enumeration value="Thai_100_CS_AI_KS" />
<xs:enumeration value="Thai_100_CS_AI_KS_WS" />
<xs:enumeration value="Thai_100_CS_AS" />
<xs:enumeration value="Thai_100_CS_AS_WS" />
<xs:enumeration value="Thai_100_CS_AS_KS" />
<xs:enumeration value="Thai_100_CS_AS_KS_WS" />
<xs:enumeration value="Tibetan_100_BIN" />
<xs:enumeration value="Tibetan_100_BIN2" />
<xs:enumeration value="Tibetan_100_CI_AI" />
<xs:enumeration value="Tibetan_100_CI_AI_WS" />
<xs:enumeration value="Tibetan_100_CI_AI_KS" />
<xs:enumeration value="Tibetan_100_CI_AI_KS_WS" />
<xs:enumeration value="Tibetan_100_CI_AS" />
<xs:enumeration value="Tibetan_100_CI_AS_WS" />
<xs:enumeration value="Tibetan_100_CI_AS_KS" />
<xs:enumeration value="Tibetan_100_CI_AS_KS_WS" />
<xs:enumeration value="Tibetan_100_CS_AI" />
<xs:enumeration value="Tibetan_100_CS_AI_WS" />
<xs:enumeration value="Tibetan_100_CS_AI_KS" />
<xs:enumeration value="Tibetan_100_CS_AI_KS_WS" />
<xs:enumeration value="Tibetan_100_CS_AS" />
<xs:enumeration value="Tibetan_100_CS_AS_WS" />
<xs:enumeration value="Tibetan_100_CS_AS_KS" />
<xs:enumeration value="Tibetan_100_CS_AS_KS_WS" />
<xs:enumeration value="Traditional_Spanish_BIN" />
<xs:enumeration value="Traditional_Spanish_BIN2" />
<xs:enumeration value="Traditional_Spanish_CI_AI" />
<xs:enumeration value="Traditional_Spanish_CI_AI_WS" />
<xs:enumeration value="Traditional_Spanish_CI_AI_KS" />
<xs:enumeration value="Traditional_Spanish_CI_AI_KS_WS" />
<xs:enumeration value="Traditional_Spanish_CI_AS" />
<xs:enumeration value="Traditional_Spanish_CI_AS_WS" />
<xs:enumeration value="Traditional_Spanish_CI_AS_KS" />
<xs:enumeration value="Traditional_Spanish_CI_AS_KS_WS" />
<xs:enumeration value="Traditional_Spanish_CS_AI" />
<xs:enumeration value="Traditional_Spanish_CS_AI_WS" />
<xs:enumeration value="Traditional_Spanish_CS_AI_KS" />
<xs:enumeration value="Traditional_Spanish_CS_AI_KS_WS" />
<xs:enumeration value="Traditional_Spanish_CS_AS" />
<xs:enumeration value="Traditional_Spanish_CS_AS_WS" />
<xs:enumeration value="Traditional_Spanish_CS_AS_KS" />
<xs:enumeration value="Traditional_Spanish_CS_AS_KS_WS" />
<xs:enumeration value="Traditional_Spanish_100_BIN" />
<xs:enumeration value="Traditional_Spanish_100_BIN2" />
```



```
<xs:enumeration value="Traditional_Spanish_100_CI_AI" />
<xs:enumeration value="Traditional_Spanish_100_CI_AI_WS" />
<xs:enumeration value="Traditional_Spanish_100_CI_AI_KS" />
<xs:enumeration value="Traditional_Spanish_100_CI_AI_KS_WS" />
<xs:enumeration value="Traditional_Spanish_100_CI_AS" />
<xs:enumeration value="Traditional_Spanish_100_CI_AS_WS" />
<xs:enumeration value="Traditional_Spanish_100_CI_AS_KS" />
<xs:enumeration value="Traditional_Spanish_100_CI_AS_KS_WS" />
<xs:enumeration value="Traditional_Spanish_100_CS_AI" />
<xs:enumeration value="Traditional_Spanish_100_CS_AI_WS" />
<xs:enumeration value="Traditional_Spanish_100_CS_AI_KS" />
<xs:enumeration value="Traditional_Spanish_100_CS_AI_KS_WS" />
<xs:enumeration value="Traditional_Spanish_100_CS_AS" />
<xs:enumeration value="Traditional_Spanish_100_CS_AS_WS" />
<xs:enumeration value="Traditional_Spanish_100_CS_AS_KS" />
<xs:enumeration value="Traditional_Spanish_100_CS_AS_KS_WS" />
<xs:enumeration value="Turkish_BIN" />
<xs:enumeration value="Turkish_BIN2" />
<xs:enumeration value="Turkish_CI_AI" />
<xs:enumeration value="Turkish_CI_AI_WS" />
<xs:enumeration value="Turkish_CI_AI_KS" />
<xs:enumeration value="Turkish_CI_AI_KS_WS" />
<xs:enumeration value="Turkish_CI_AS" />
<xs:enumeration value="Turkish_CI_AS_WS" />
<xs:enumeration value="Turkish_CI_AS_KS" />
<xs:enumeration value="Turkish_CI_AS_KS_WS" />
<xs:enumeration value="Turkish_CS_AI" />
<xs:enumeration value="Turkish_CS_AI_WS" />
<xs:enumeration value="Turkish_CS_AI_KS" />
<xs:enumeration value="Turkish_CS_AI_KS_WS" />
<xs:enumeration value="Turkish_CS_AS" />
<xs:enumeration value="Turkish_CS_AS_WS" />
<xs:enumeration value="Turkish_CS_AS_KS" />
<xs:enumeration value="Turkish_CS_AS_KS_WS" />
<xs:enumeration value="Turkish_100_BIN" />
<xs:enumeration value="Turkish_100_BIN2" />
<xs:enumeration value="Turkish_100_CI_AI" />
<xs:enumeration value="Turkish_100_CI_AI_WS" />
<xs:enumeration value="Turkish_100_CI_AI_KS" />
<xs:enumeration value="Turkish_100_CI_AI_KS_WS" />
<xs:enumeration value="Turkish_100_CI_AS" />
<xs:enumeration value="Turkish_100_CI_AS_WS" />
<xs:enumeration value="Turkish_100_CI_AS_KS" />
<xs:enumeration value="Turkish_100_CI_AS_KS_WS" />
<xs:enumeration value="Turkish_100_CS_AI" />
<xs:enumeration value="Turkish_100_CS_AI_WS" />
<xs:enumeration value="Turkish_100_CS_AI_KS" />
<xs:enumeration value="Turkish_100_CS_AI_KS_WS" />
<xs:enumeration value="Turkish_100_CS_AS" />
<xs:enumeration value="Turkish_100_CS_AS_WS" />
<xs:enumeration value="Turkish_100_CS_AS_KS" />
<xs:enumeration value="Turkish_100_CS_AS_KS_WS" />
<xs:enumeration value="Turkmen_100_BIN" />
<xs:enumeration value="Turkmen_100_BIN2" />
<xs:enumeration value="Turkmen_100_CI_AI" />
<xs:enumeration value="Turkmen_100_CI_AI_WS" />
<xs:enumeration value="Turkmen_100_CI_AI_KS" />
<xs:enumeration value="Turkmen_100_CI_AI_KS_WS" />
<xs:enumeration value="Turkmen_100_CI_AS" />
```

```
<xs:enumeration value="Turkmen_100_CI_AS_WS" />
<xs:enumeration value="Turkmen_100_CI_AS_KS" />
<xs:enumeration value="Turkmen_100_CI_AS_KS_WS" />
<xs:enumeration value="Turkmen_100_CS_AI" />
<xs:enumeration value="Turkmen_100_CS_AI_WS" />
<xs:enumeration value="Turkmen_100_CS_AI_KS" />
<xs:enumeration value="Turkmen_100_CS_AI_KS_WS" />
<xs:enumeration value="Turkmen_100_CS_AS" />
<xs:enumeration value="Turkmen_100_CS_AS_WS" />
<xs:enumeration value="Turkmen_100_CS_AS_KS" />
<xs:enumeration value="Turkmen_100_CS_AS_KS_WS" />
<xs:enumeration value="Uighur_100_BIN" />
<xs:enumeration value="Uighur_100_BIN2" />
<xs:enumeration value="Uighur_100_CI_AI" />
<xs:enumeration value="Uighur_100_CI_AI_WS" />
<xs:enumeration value="Uighur_100_CI_AI_KS" />
<xs:enumeration value="Uighur_100_CI_AI_KS_WS" />
<xs:enumeration value="Uighur_100_CI_AS" />
<xs:enumeration value="Uighur_100_CI_AS_WS" />
<xs:enumeration value="Uighur_100_CI_AS_KS" />
<xs:enumeration value="Uighur_100_CI_AS_KS_WS" />
<xs:enumeration value="Uighur_100_CS_AI" />
<xs:enumeration value="Uighur_100_CS_AI_WS" />
<xs:enumeration value="Uighur_100_CS_AI_KS" />
<xs:enumeration value="Uighur_100_CS_AI_KS_WS" />
<xs:enumeration value="Uighur_100_CS_AS" />
<xs:enumeration value="Uighur_100_CS_AS_WS" />
<xs:enumeration value="Uighur_100_CS_AS_KS" />
<xs:enumeration value="Uighur_100_CS_AS_KS_WS" />
<xs:enumeration value="Ukrainian_BIN" />
<xs:enumeration value="Ukrainian_BIN2" />
<xs:enumeration value="Ukrainian_CI_AI" />
<xs:enumeration value="Ukrainian_CI_AI_WS" />
<xs:enumeration value="Ukrainian_CI_AI_KS" />
<xs:enumeration value="Ukrainian_CI_AI_KS_WS" />
<xs:enumeration value="Ukrainian_CI_AS" />
<xs:enumeration value="Ukrainian_CI_AS_WS" />
<xs:enumeration value="Ukrainian_CI_AS_KS" />
<xs:enumeration value="Ukrainian_CI_AS_KS_WS" />
<xs:enumeration value="Ukrainian_CS_AI" />
<xs:enumeration value="Ukrainian_CS_AI_WS" />
<xs:enumeration value="Ukrainian_CS_AI_KS" />
<xs:enumeration value="Ukrainian_CS_AI_KS_WS" />
<xs:enumeration value="Ukrainian_CS_AS" />
<xs:enumeration value="Ukrainian_CS_AS_WS" />
<xs:enumeration value="Ukrainian_CS_AS_KS" />
<xs:enumeration value="Ukrainian_CS_AS_KS_WS" />
<xs:enumeration value="Ukrainian_100_BIN" />
<xs:enumeration value="Ukrainian_100_BIN2" />
<xs:enumeration value="Ukrainian_100_CI_AI" />
<xs:enumeration value="Ukrainian_100_CI_AI_WS" />
<xs:enumeration value="Ukrainian_100_CI_AI_KS" />
<xs:enumeration value="Ukrainian_100_CI_AI_KS_WS" />
<xs:enumeration value="Ukrainian_100_CI_AS" />
<xs:enumeration value="Ukrainian_100_CI_AS_WS" />
<xs:enumeration value="Ukrainian_100_CI_AS_KS" />
<xs:enumeration value="Ukrainian_100_CI_AS_KS_WS" />
<xs:enumeration value="Ukrainian_100_CS_AI" />
<xs:enumeration value="Ukrainian_100_CS_AI_WS" />
```

```
<xs:enumeration value="Ukrainian_100_CS_AI_KS" />
<xs:enumeration value="Ukrainian_100_CS_AI_KS_WS" />
<xs:enumeration value="Ukrainian_100_CS_AS" />
<xs:enumeration value="Ukrainian_100_CS_AS_WS" />
<xs:enumeration value="Ukrainian_100_CS_AS_KS" />
<xs:enumeration value="Ukrainian_100_CS_AS_KS_WS" />
<xs:enumeration value="Upper_Sorbian_100_BIN" />
<xs:enumeration value="Upper_Sorbian_100_BIN2" />
<xs:enumeration value="Upper_Sorbian_100_CI_AI" />
<xs:enumeration value="Upper_Sorbian_100_CI_AI_WS" />
<xs:enumeration value="Upper_Sorbian_100_CI_AI_KS" />
<xs:enumeration value="Upper_Sorbian_100_CI_AI_KS_WS" />
<xs:enumeration value="Upper_Sorbian_100_CI_AS" />
<xs:enumeration value="Upper_Sorbian_100_CI_AS_WS" />
<xs:enumeration value="Upper_Sorbian_100_CI_AS_KS" />
<xs:enumeration value="Upper_Sorbian_100_CI_AS_KS_WS" />
<xs:enumeration value="Upper_Sorbian_100_CS_AI" />
<xs:enumeration value="Upper_Sorbian_100_CS_AI_WS" />
<xs:enumeration value="Upper_Sorbian_100_CS_AI_KS" />
<xs:enumeration value="Upper_Sorbian_100_CS_AI_KS_WS" />
<xs:enumeration value="Upper_Sorbian_100_CS_AS" />
<xs:enumeration value="Upper_Sorbian_100_CS_AS_WS" />
<xs:enumeration value="Upper_Sorbian_100_CS_AS_KS" />
<xs:enumeration value="Upper_Sorbian_100_CS_AS_KS_WS" />
<xs:enumeration value="Urdu_100_BIN" />
<xs:enumeration value="Urdu_100_BIN2" />
<xs:enumeration value="Urdu_100_CI_AI" />
<xs:enumeration value="Urdu_100_CI_AI_WS" />
<xs:enumeration value="Urdu_100_CI_AI_KS" />
<xs:enumeration value="Urdu_100_CI_AI_KS_WS" />
<xs:enumeration value="Urdu_100_CI_AS" />
<xs:enumeration value="Urdu_100_CI_AS_WS" />
<xs:enumeration value="Urdu_100_CI_AS_KS" />
<xs:enumeration value="Urdu_100_CI_AS_KS_WS" />
<xs:enumeration value="Urdu_100_CS_AI" />
<xs:enumeration value="Urdu_100_CS_AI_WS" />
<xs:enumeration value="Urdu_100_CS_AI_KS" />
<xs:enumeration value="Urdu_100_CS_AI_KS_WS" />
<xs:enumeration value="Urdu_100_CS_AS" />
<xs:enumeration value="Urdu_100_CS_AS_WS" />
<xs:enumeration value="Urdu_100_CS_AS_KS" />
<xs:enumeration value="Urdu_100_CS_AS_KS_WS" />
<xs:enumeration value="Uzbek_Latin_90_BIN" />
<xs:enumeration value="Uzbek_Latin_90_BIN2" />
<xs:enumeration value="Uzbek_Latin_90_CI_AI" />
<xs:enumeration value="Uzbek_Latin_90_CI_AI_WS" />
<xs:enumeration value="Uzbek_Latin_90_CI_AI_KS" />
<xs:enumeration value="Uzbek_Latin_90_CI_AI_KS_WS" />
<xs:enumeration value="Uzbek_Latin_90_CI_AS" />
<xs:enumeration value="Uzbek_Latin_90_CI_AS_WS" />
<xs:enumeration value="Uzbek_Latin_90_CI_AS_KS" />
<xs:enumeration value="Uzbek_Latin_90_CI_AS_KS_WS" />
<xs:enumeration value="Uzbek_Latin_90_CS_AI" />
<xs:enumeration value="Uzbek_Latin_90_CS_AI_WS" />
<xs:enumeration value="Uzbek_Latin_90_CS_AI_KS" />
<xs:enumeration value="Uzbek_Latin_90_CS_AI_KS_WS" />
<xs:enumeration value="Uzbek_Latin_90_CS_AS" />
<xs:enumeration value="Uzbek_Latin_90_CS_AS_WS" />
<xs:enumeration value="Uzbek_Latin_90_CS_AS_KS" />
```

```
<xs:enumeration value="Uzbek_Latin_90_CS_AS_KS_WS" />
<xs:enumeration value="Uzbek_Latin_100_BIN" />
<xs:enumeration value="Uzbek_Latin_100_BIN2" />
<xs:enumeration value="Uzbek_Latin_100_CI_AI" />
<xs:enumeration value="Uzbek_Latin_100_CI_AI_WS" />
<xs:enumeration value="Uzbek_Latin_100_CI_AI_KS" />
<xs:enumeration value="Uzbek_Latin_100_CI_AI_KS_WS" />
<xs:enumeration value="Uzbek_Latin_100_CI_AS" />
<xs:enumeration value="Uzbek_Latin_100_CI_AS_WS" />
<xs:enumeration value="Uzbek_Latin_100_CI_AS_KS" />
<xs:enumeration value="Uzbek_Latin_100_CI_AS_KS_WS" />
<xs:enumeration value="Uzbek_Latin_100_CS_AI" />
<xs:enumeration value="Uzbek_Latin_100_CS_AI_WS" />
<xs:enumeration value="Uzbek_Latin_100_CS_AI_KS" />
<xs:enumeration value="Uzbek_Latin_100_CS_AI_KS_WS" />
<xs:enumeration value="Uzbek_Latin_100_CS_AS" />
<xs:enumeration value="Uzbek_Latin_100_CS_AS_WS" />
<xs:enumeration value="Uzbek_Latin_100_CS_AS_KS" />
<xs:enumeration value="Uzbek_Latin_100_CS_AS_KS_WS" />
<xs:enumeration value="Vietnamese_BIN" />
<xs:enumeration value="Vietnamese_BIN2" />
<xs:enumeration value="Vietnamese_CI_AI" />
<xs:enumeration value="Vietnamese_CI_AI_WS" />
<xs:enumeration value="Vietnamese_CI_AI_KS" />
<xs:enumeration value="Vietnamese_CI_AI_KS_WS" />
<xs:enumeration value="Vietnamese_CI_AS" />
<xs:enumeration value="Vietnamese_CI_AS_WS" />
<xs:enumeration value="Vietnamese_CI_AS_KS" />
<xs:enumeration value="Vietnamese_CI_AS_KS_WS" />
<xs:enumeration value="Vietnamese_CS_AI" />
<xs:enumeration value="Vietnamese_CS_AI_WS" />
<xs:enumeration value="Vietnamese_CS_AI_KS" />
<xs:enumeration value="Vietnamese_CS_AI_KS_WS" />
<xs:enumeration value="Vietnamese_CS_AS" />
<xs:enumeration value="Vietnamese_CS_AS_WS" />
<xs:enumeration value="Vietnamese_CS_AS_KS" />
<xs:enumeration value="Vietnamese_CS_AS_KS_WS" />
<xs:enumeration value="Vietnamese_100_BIN" />
<xs:enumeration value="Vietnamese_100_BIN2" />
<xs:enumeration value="Vietnamese_100_CI_AI" />
<xs:enumeration value="Vietnamese_100_CI_AI_WS" />
<xs:enumeration value="Vietnamese_100_CI_AI_KS" />
<xs:enumeration value="Vietnamese_100_CI_AI_KS_WS" />
<xs:enumeration value="Vietnamese_100_CI_AS" />
<xs:enumeration value="Vietnamese_100_CI_AS_WS" />
<xs:enumeration value="Vietnamese_100_CI_AS_KS" />
<xs:enumeration value="Vietnamese_100_CI_AS_KS_WS" />
<xs:enumeration value="Vietnamese_100_CS_AI" />
<xs:enumeration value="Vietnamese_100_CS_AI_WS" />
<xs:enumeration value="Vietnamese_100_CS_AI_KS" />
<xs:enumeration value="Vietnamese_100_CS_AI_KS_WS" />
<xs:enumeration value="Vietnamese_100_CS_AS" />
<xs:enumeration value="Vietnamese_100_CS_AS_WS" />
<xs:enumeration value="Vietnamese_100_CS_AS_KS" />
<xs:enumeration value="Vietnamese_100_CS_AS_KS_WS" />
<xs:enumeration value="Welsh_100_BIN" />
<xs:enumeration value="Welsh_100_BIN2" />
<xs:enumeration value="Welsh_100_CI_AI" />
<xs:enumeration value="Welsh_100_CI_AI_WS" />
```

```

<xs:enumeration value="Welsh_100_CI_AI_KS" />
<xs:enumeration value="Welsh_100_CI_AI_KS_WS" />
<xs:enumeration value="Welsh_100_CI_AS" />
<xs:enumeration value="Welsh_100_CI_AS_WS" />
<xs:enumeration value="Welsh_100_CI_AS_KS" />
<xs:enumeration value="Welsh_100_CI_AS_KS_WS" />
<xs:enumeration value="Welsh_100_CS_AI" />
<xs:enumeration value="Welsh_100_CS_AI_WS" />
<xs:enumeration value="Welsh_100_CS_AI_KS" />
<xs:enumeration value="Welsh_100_CS_AI_KS_WS" />
<xs:enumeration value="Welsh_100_CS_AS" />
<xs:enumeration value="Welsh_100_CS_AS_WS" />
<xs:enumeration value="Welsh_100_CS_AS_KS" />
<xs:enumeration value="Welsh_100_CS_AS_KS_WS" />
<xs:enumeration value="Yakut_100_BIN" />
<xs:enumeration value="Yakut_100_BIN2" />
<xs:enumeration value="Yakut_100_CI_AI" />
<xs:enumeration value="Yakut_100_CI_AI_WS" />
<xs:enumeration value="Yakut_100_CI_AI_KS" />
<xs:enumeration value="Yakut_100_CI_AI_KS_WS" />
<xs:enumeration value="Yakut_100_CI_AS" />
<xs:enumeration value="Yakut_100_CI_AS_WS" />
<xs:enumeration value="Yakut_100_CI_AS_KS" />
<xs:enumeration value="Yakut_100_CI_AS_KS_WS" />
<xs:enumeration value="Yakut_100_CS_AI" />
<xs:enumeration value="Yakut_100_CS_AI_WS" />
<xs:enumeration value="Yakut_100_CS_AI_KS" />
<xs:enumeration value="Yakut_100_CS_AI_KS_WS" />
<xs:enumeration value="Yakut_100_CS_AS" />
<xs:enumeration value="Yakut_100_CS_AS_WS" />
<xs:enumeration value="Yakut_100_CS_AS_KS" />
<xs:enumeration value="Yakut_100_CS_AS_KS_WS" />
<xs:enumeration value="SQL_lxCompat_CP850_CI_AS" />
<xs:enumeration value="SQL_AltDiction_CP850_CI_AI" />
<xs:enumeration value="SQL_AltDiction_CP850_CI_AS" />
<xs:enumeration value="SQL_AltDiction_CP850_CS_AS" />
<xs:enumeration value="SQL_AltDiction_Pref_CP850_CI_AS" />
<xs:enumeration value="SQL_AltDiction2_CP1253_CS_AS" />
<xs:enumeration value="SQL_Croatian_CP1250_CI_AS" />
<xs:enumeration value="SQL_Croatian_CP1250_CS_AS" />
<xs:enumeration value="SQL_Czech_CP1250_CI_AS" />
<xs:enumeration value="SQL_Czech_CP1250_CS_AS" />
<xs:enumeration value="SQL_Danish_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_EBCDIC037_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC273_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC277_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC278_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC280_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC284_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC285_CP1_CS_AS" />
<xs:enumeration value="SQL_EBCDIC297_CP1_CS_AS" />
<xs:enumeration value="SQL_Estonian_CP1257_CI_AS" />
<xs:enumeration value="SQL_Estonian_CP1257_CS_AS" />
<xs:enumeration value="SQL_Hungarian_CP1250_CI_AS" />
<xs:enumeration value="SQL_Hungarian_CP1250_CS_AS" />
<xs:enumeration value="SQL_Icelandic_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1_CI_AI" />
<xs:enumeration value="SQL_Latin1_General_CP1_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1_CS_AS" />

```

```

<xs:enumeration value="SQL_Latin1_General_CP1250_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1250_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1251_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1251_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1253_CI_AI" />
<xs:enumeration value="SQL_Latin1_General_CP1253_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1253_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1254_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1254_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1255_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1255_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1256_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1256_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1257_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP1257_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP437_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP437_BIN2" />
<xs:enumeration value="SQL_Latin1_General_CP437_CI_AI" />
<xs:enumeration value="SQL_Latin1_General_CP437_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP437_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_CP850_BIN" />
<xs:enumeration value="SQL_Latin1_General_CP850_BIN2" />
<xs:enumeration value="SQL_Latin1_General_CP850_CI_AI" />
<xs:enumeration value="SQL_Latin1_General_CP850_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_CP850_CS_AS" />
<xs:enumeration value="SQL_Latin1_General_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_Pref_CP437_CI_AS" />
<xs:enumeration value="SQL_Latin1_General_Pref_CP850_CI_AS" />
<xs:enumeration value="SQL_Latvian_CP1257_CI_AS" />
<xs:enumeration value="SQL_Latvian_CP1257_CS_AS" />
<xs:enumeration value="SQL_Lithuanian_CP1257_CI_AS" />
<xs:enumeration value="SQL_Lithuanian_CP1257_CS_AS" />
<xs:enumeration value="SQL_MixDiction_CP1253_CS_AS" />
<xs:enumeration value="SQL_Polish_CP1250_CI_AS" />
<xs:enumeration value="SQL_Polish_CP1250_CS_AS" />
<xs:enumeration value="SQL_Romanian_CP1250_CI_AS" />
<xs:enumeration value="SQL_Romanian_CP1250_CS_AS" />
<xs:enumeration value="SQL_Scandinavian_CP850_CI_AS" />
<xs:enumeration value="SQL_Scandinavian_CP850_CS_AS" />
<xs:enumeration value="SQL_Scandinavian_Pref_CP850_CI_AS" />
<xs:enumeration value="SQL_Slovak_CP1250_CI_AS" />
<xs:enumeration value="SQL_Slovak_CP1250_CS_AS" />
<xs:enumeration value="SQL_Slovenian_CP1250_CI_AS" />
<xs:enumeration value="SQL_Slovenian_CP1250_CS_AS" />
<xs:enumeration value="SQL_SwedishPhone_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_SwedishStd_Pref_CP1_CI_AS" />
<xs:enumeration value="SQL_Ukrainian_CP1251_CI_AS" />
<xs:enumeration value="SQL_Ukrainian_CP1251_CS_AS" />
</xs:restriction>
</xs:simpleType>
</xs:schema>

```

6 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft® SQL Server® 2008 R2
- Microsoft® SQL Server® 2008 R2 DAC out-of-band release
- Microsoft® SQL Server® code-named Denali Community Technology Preview 3 (CTP3)

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

[<1> Section 2.1.1:](#) This element was added in SQL Server Denali CTP3.

[<2> Section 2.1.1:](#) This element was added in SQL Server Denali CTP3.

[<3> Section 2.1.1:](#) This element was added in SQL Server Denali CTP3.

[<4> Section 2.2.16:](#) This element was added in SQL Server Denali CTP3.

[<5> Section 2.2.17:](#) This element was added in SQL Server Denali CTP3.

[<6> Section 2.2.19:](#) This element was added in SQL Server Denali CTP3.

[<7> Section 2.2.33:](#) This type was introduced in SQL Server Denali CTP3.

[<8> Section 2.2.40:](#) This type was removed in SQL Server Denali CTP3.

[<9> Section 2.2.44:](#) This element was added in SQL Server Denali CTP3.

[<10> Section 2.2.48:](#) This element was added in SQL Server Denali CTP3.

7 Change Tracking

This section identifies changes that were made to the [MS-DACPAC] protocol document between the July 2011 and November 2011 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **Editorial** means that the language and formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
5.3 Management Model XML Schema for Version 2010/11	Clarified in section title and XSD that XML Schema version is 2010/10 and not 2011/11.	Y	Content updated due to protocol revision.
5.4 Relational Engine XML Schema for Version 2010/11	Clarified in section title and XSD that XML Schema version is 2010/10 and not 2011/11.	Y	Content updated due to protocol revision.

8 Index

<1> Section 1: Windows NT and Windows 2000 set cWidgets to 0.

A

[ActivationOrder type](#) 28
[Appendix A](#) 44
[Applicability](#) 8

B

[BaseSystemDataType type](#) 34
[BooleanType type](#) 28

C

[Change tracking](#) 128
[CheckConstraint element](#) 13
[CollationType type](#) 34
[Column element](#) 14
[CompatibilityLevelEnumeration type](#) 29
[ComputedColumnType type](#) 34

D

[Database element](#) 15
[DatabasePermission type](#) 35
[DatabaseRole element](#) 15
[DataType type](#) 35
[DefaultConstraint element](#) 16
[DMLActionEnumeration type](#) 29
[DmlTrigger element](#) 16

E

[ExecuteAsEnumeration type](#) 30
[ExecutionContextType type](#) 35

F

[FillFactorType type](#) 33
[ForeignKeyColumn element](#) 17
[ForeignKeyConstraint element](#) 18

G

[Glossary](#) 5
[GridDensity type](#) 30

I

[IdentityType type](#) 36
[IndexedColumn element](#) 18
[Instances element](#) 9
[InstancesType type](#) 12

K

[Key attribute](#) 11
[KeyPatternType type](#) 12

L

[Localization](#) 8
[Logical object sample](#) 38
[Login element](#) 19
[LoginTypeEnumeration type](#) 30

M

[Management Model structure](#) 9
[MaxDopType type](#) 33

P

[PermissionStateEnum type](#) 31
[PermissionTypeEnum PermissionTypeEnum](#) 31
[Physical object sample](#) 40
[PrimaryKeyConstraint element](#) 19

R

[Reference element](#) 11
[ReferenceKey attribute](#) 12
References
 [informative](#) 6
 [normative](#) 5
[ReferencesType type](#) 13
[ReferenceType type](#) 12
[Relational Engine \(RE\) structure](#) 13
[RelationalIndex element](#) 19

S

[ScalarDataType type](#) 37
[ScalarParameter element](#) 21
[ScalarValuedFunction element](#) 21
[Schema element](#) 22
[SortOrderEnumeration type](#) 33
[SpatialIndex element](#) 22
[SqlDataType type](#) 37
[Statistics element](#) 23
[StoredProcedure element](#) 23
[Structure overview](#) 7
[Synonym element](#) 24

T

[Table element](#) 24
[TableParameter element](#) 25
[TableValuedFunction element](#) 25
[Tracking changes](#) 128

U

[UniqueConstraint element](#) 26

[User element](#) 26
[UserDefinedDataType element](#) 27
[UserDefinedTableType element](#) 27
[UserTypeEnumeration type](#) 33

V

[Vendor-extensible fields](#) 8
[Versioning](#) 8
[View element](#) 28

X

[XML namespace](#) 7