EXAMPLE

[0149]

```
<rsd:Table Name="Customer">
    <rsd:Columns>
        <rsd:Column Name="CustomerID" AutoIncrement="true">
            <rsd:DbNumericType Name="Int"/>
        </rsd:Column>
        <rsd:Column Name="CompanyName">
            <rsd:StringType Name="Varchar" Length="40"/>
        </rsd:Column>
    </rsd:Columns>
</rsd:Table>
```

[0150] 21. Parameters

[0151] This element serves as a container for zero or more Parameter elements.

[0152] 22. Parameter

[0153] This element is used to represent a parameter to a Stored Procedure or UDF. Cursor output parameters are not supported.

Attributes

Tag	Card	Comment
Name	Req	Parameter name.
Direction	Opt	Can be "In", "InOut", or "Out". "In" is the default.

[0154] Sub-Elements

[0155] Parameters use the same representation for types that are used for columns (See above).

Tag	Card	Comment
DbStringType	1	Represents string types in the database
DbNumericType	1	Represents numeric types in the database
DbDateType	1	Represents date types in the database
DbGuidType	1	Represents GUIDs in the database
DbXmlType	1	Represents the XML datatype in the database
DbUDTType	1	Represents the UDT type in the database
DbAliasType	1	Represents AliasTypes in the database
Default	0–1	Contains the default value to be used for this parameter. This is the value that will be passed to the parameter when the containing procedure is executed with the default

[0156] RSD Generation Notes

[0157] RSD Generators should not return Procedures with VARYING parameters, since cursor output parameters are not supported.

EXAMPLE

[0158]

```
<rsd:StoredProcedure Name="sp_UpdateCustomer">
    <rsd:Parameters>
```

-continued

```
        <rsd:Parameter Name="PrevCustomerID">
            <rsd:DbNumericType Name="Int" />
        </rsd:Parameter>
        <rsd:Parameter Name="CustomerID">
            <rsd:DbNumericType Name="Int" />
        </rsd:Parameter>
        <rsd:Parameter Name="CompanyName">
            <rsd:DbNumericType Name="varchar" Length="40" />
        </rsd:Parameter>
    </rsd:Parameters>
</rsd:StoredProcedure>
```

[0159] 23. DbStringType

Attributes

Tag	Card	Comment
Name	Req	Type name (see above)
Length	Req	Can be an integer or "max" (case-insensitive).

[0160] Validation

[0161] For SQL Server, the types represented by DbStringType are: char, nchar, varchar, nvarchar, text, ntext, binary, image and varbinary. The types text, ntext, and image do not support the length attribute—the other types require it. "max" can only be specified when the product="SQL Server" and the version="Yukon". Unicode columns (except ntext) cannot have a length value greater than 4000. Non-unicode columns (except text) cannot have a length value greater than 8000.

[0162] If any of the above constraints are violated, the user receives an error message that specifies the 3-part name of the structure, as well as the type and the offending column name. In addition, a description of the constraint is presented.

[0163] 24. DbNumericType

[0164] For SQL Server, the types represented by DbIntegerType are: bit, tinyint, smallint, int, bigint, smallmoney, money, smallmoney, numeric, decimal, float, and real.

Attributes

Tag	Card	Comment
Name	Req	Type name
Precision	Opt	The total number of digits in a numeric type. Default is 0.
Scale	Opt	The number of digits to the right of the decimal. Default is 0.

[0165] Validation

[0166] Precision is only defined for the decimal types: numeric, decimal, float, real. Scale is only defined for the exact decimal types: numeric, decimal

[0167] If any of the above constraints are violated, the user receives an error message that specifies the 3-part name of