

Schema documentation for key.xsd

21 october 2009

Table of Contents

- Namespace: "" 1
- Schemas 1
 - Main schema key.xsd 1
- Elements 1
 - Element NameType / FirstName 1
 - Element NameType / LastName 1
 - Element StaffList 2
 - Element StaffList / Employees 3
 - Element Employee 3
 - Element Employee / Name 4
 - Element Employee / Department 4
 - Element Employee / JobTitle 5
 - Element StaffList / Departments 5
 - Element Department 5
 - Element Department / DepartmentTitle 6
 - Element Department / DepartmentManager 6
- Complex Types 6
 - Complex Type NameType 6
- Attributes 7
 - Attribute Department / Employee / @refDepartmentID 7
 - Attribute Employee / @employeeID 7
 - Attribute DepartmentManager / Department / @refEmployeeID 7
 - Attribute Department / @departmentID 7

Namespace: ""

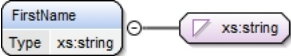
Schemas

Main schema key.xsd

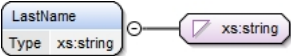
Namespace	No namespace
Properties	attribute form default: unqualified element form default: qualified

Elements

Element NameType / FirstName

Namespace	No namespace
Diagram	
Type	xs:string
Properties	content: simple
Source	<code><xs:element name="FirstName" type="xs:string" /></code>

Element NameType / LastName

Namespace	No namespace
Diagram	
Type	xs:string

Properties	content: simple
Source	<code><xs:element name="LastName" type="xs:string"/></code>

Element StaffList

Namespace	No namespace
Diagram	
Properties	content: complex
Model	Employees , Departments
Children	Departments, Employees
Instance	<pre><StaffList> <Employees>{1,1}</Employees> <Departments>{1,1}</Departments> </StaffList></pre>
Source	<pre><xs:element name="StaffList"> <xs:complexType> <xs:sequence> <xs:element name="Employees"> <xs:complexType> <xs:sequence> <xs:element ref="Employee" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </xs:element> <xs:unique name="employeeIdentificationNumber"> <xs:selector xpath="Employee"/> <xs:field xpath="@employeeID"/> </xs:unique> </xs:sequence> </xs:complexType> <xs:element name="Departments"> <xs:complexType> <xs:sequence> <xs:element ref="Department" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </xs:element> </StaffList></pre>

	<pre> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> <!-- ===== --> <xs:key name="KeyDepartmentByID"> <xs:annotation> <xs:documentation>key pair makes department ids unique and each employee must be assigned to a department that exists</xs:documentation> </xs:annotation> <xs:selector xpath="Departments/Department"/> <xs:field xpath="@departmentID"/> </xs:key> <xs:keyref name="RefEmployeeToDepartment" refer="KeyDepartmentByID"> <xs:selector xpath="Employees/Employee/Department"/> <xs:field xpath="@refDepartmentID"/> </xs:keyref> <!-- ===== --> <xs:key name="KeyEmployeeID"> <xs:annotation> <xs:documentation>key pair makes each employee id unique and each employee in the department manager part of Departments to have a valid employee id</xs:documentation> </xs:annotation> <xs:selector xpath="Employees/Employee"/> <xs:field xpath="@employeeID"/> </xs:key> <xs:keyref name="KeyEmployeeToDepartment" refer="KeyEmployeeID"> <xs:selector xpath="Departments/Department/DepartmentManager"/> <xs:field xpath="@refEmployeeID"/> </xs:keyref> <!-- ===== --> <xs:unique name="uniqueDepartmentTitle"> <xs:selector xpath="Departments/Department"/> <xs:field xpath="DepartmentTitle"/> </xs:unique> </xs:element> </pre>
--	---

Element StaffList / Employees

Namespace	No namespace
Diagram	<p>The diagram shows an Employees class containing a sequence of Employee classes. The Employee class has a unique constraint on the @employeeID attribute.</p>
Properties	content: complex
Model	Employee+
Children	Employee
Instance	<pre> <Employees> <Employee employeeID=" " >{1,unbounded}</Employee> </Employees> </pre>
Source	<pre> <xs:element name="Employees"> <xs:complexType> <xs:sequence> <xs:element ref="Employee" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> <xs:unique name="employeeIdentificationNumber"> <xs:selector xpath="Employee"/> <xs:field xpath="@employeeID"/> </xs:unique> </xs:element> </pre>

Element Employee

Namespace	No namespace
-----------	--------------

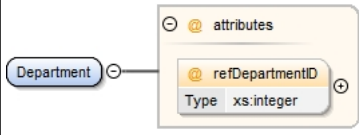
Diagram					
Properties	content:	complex			
Used by	Element	StaffList/Employees			
Model	Name , Department , JobTitle				
Children	Department, JobTitle, Name				
Instance	<pre><Employee employeeID=" " > <Name>{1,1}</Name> <Department refDepartmentID=" " >{1,1}</Department> <JobTitle>{1,1}</JobTitle> </Employee></pre>				
Attributes	QName	Type	Fixed	Default	Use
	employeeID	xs:integer			optional
Source	<pre><xs:element name="Employee"> <xs:complexType> <xs:sequence> <xs:element name="Name" type="NameType" /> <xs:element name="Department"> <xs:complexType> <xs:attribute name="refDepartmentID" type="xs:integer" /> </xs:complexType> </xs:element> <xs:element name="JobTitle" type="xs:string" /> </xs:sequence> <xs:attribute name="employeeID" type="xs:integer" /> </xs:complexType> </xs:element></pre>				

Element Employee / Name


Namespace	No namespace
Diagram	
Type	NameType
Properties	content: complex
Model	FirstName , LastName
Children	FirstName, LastName
Instance	<pre><Name> <FirstName>{1,1}</FirstName> <LastName>{1,1}</LastName> </Name></pre>
Source	<pre><xs:element name="Name" type="NameType" /></pre>

Element Employee / Department


Namespace	No namespace
-----------	--------------

Diagram					
Properties	content:	complex			
Attributes	QName	Type	Fixed	Default	Use
	refDepartmentID	xs:integer			optional
Source	<pre><xs:element name="Department"> <xs:complexType> <xs:attribute name="refDepartmentID" type="xs:integer" /> </xs:complexType> </xs:element></pre>				

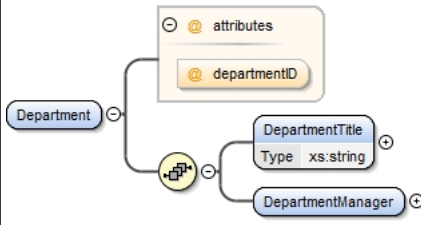
Element Employee / JobTitle

Namespace	No namespace
Diagram	
Type	xs:string
Properties	content: simple
Source	<pre><xs:element name="JobTitle" type="xs:string"/></pre>

Element StaffList / Departments


Namespace	No namespace
Diagram	
Properties	content: complex
Model	Department+
Children	Department
Instance	<pre><Departments> <Department departmentID=">{1, unbounded}</Department> </Departments></pre>
Source	<pre><xs:element name="Departments"> <xs:complexType> <xs:sequence> <xs:element ref="Department" maxOccurs="unbounded" /> </xs:sequence> </xs:complexType> </xs:element></pre>

Element Department

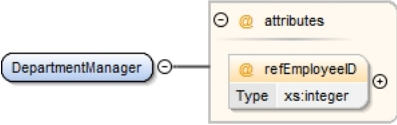
Namespace	No namespace
Diagram	
Properties	content: complex
Used by	Element StaffList/Departments
Model	DepartmentTitle , DepartmentManager
Children	DepartmentManager, DepartmentTitle
Instance	<pre><Department departmentID="> <DepartmentTitle>{1,1}</DepartmentTitle></pre>

	<code><DepartmentManager refEmployeeID=" " >{1,1}</DepartmentManager></code> <code></Department></code>				
Attributes	QName	Type	Fixed	Default	Use
	departmentID				optional
Source	<pre> <xs:element name="Department"> <xs:complexType> <xs:sequence> <xs:element name="DepartmentTitle" type="xs:string"/> <xs:element name="DepartmentManager"> <xs:complexType> <xs:attribute name="refEmployeeID" type="xs:integer"/> </xs:complexType> </xs:element> </xs:sequence> <xs:attribute name="departmentID"/> </xs:complexType> </xs:element> </pre>				

Element Department / DepartmentTitle

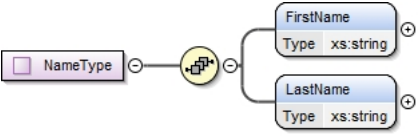
Namespace	No namespace
Diagram	
Type	xs:string
Properties	content: simple
Source	<code><xs:element name="DepartmentTitle" type="xs:string"/></code>

Element Department / DepartmentManager

Namespace	No namespace										
Diagram											
Properties	content: complex										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>refEmployeeID</td> <td>xs:integer</td> <td></td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	refEmployeeID	xs:integer			optional
QName	Type	Fixed	Default	Use							
refEmployeeID	xs:integer			optional							
Source	<pre> <xs:element name="DepartmentManager"> <xs:complexType> <xs:attribute name="refEmployeeID" type="xs:integer"/> </xs:complexType> </xs:element> </pre>										

Complex Types

Complex Type NameType

Namespace	No namespace
Diagram	
Used by	Element Employee/Name
Model	FirstName , LastName
Children	FirstName, LastName
Source	<pre> <xs:complexType name="NameType"> <xs:sequence> <xs:element name="FirstName" type="xs:string"/> <xs:element name="LastName" type="xs:string"/> </xs:sequence> </pre>

	</xs:complexType>
--	-------------------

Attributes

Attribute Department / Employee / @refDepartmentID

Namespace	No namespace
Type	xs:integer
Properties	content: simple
Used by	Element Employee/Department
Source	<xs:attribute name="refDepartmentID" type="xs:integer" />

Attribute Employee / @employeeID

Namespace	No namespace
Type	xs:integer
Properties	content: simple
Used by	Element Employee
Source	<xs:attribute name="employeeID" type="xs:integer" />

Attribute DepartmentManager / Department / @refEmployeeID

Namespace	No namespace
Type	xs:integer
Properties	content: simple
Used by	Element Department/DepartmentManager
Source	<xs:attribute name="refEmployeeID" type="xs:integer" />

Attribute Department / @departmentID

Namespace	No namespace
Used by	Element Department
Source	<xs:attribute name="departmentID" />