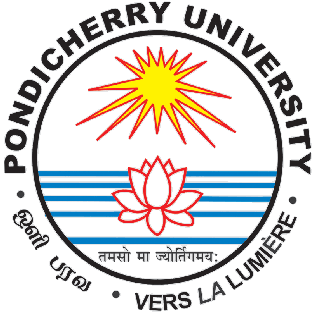
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**PONDICHERRY UNIVERISTY**

**Department of  
Computer Science**

M.Sc. 1st Year

**DESIGNING XML SCHEMA FOR COMPANY DATABASE**

**Submitted By-**

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**OBJECTIVE**: DESIGNING XML SCHEMA FOR COMPANY DATABASE.

**Software and Tools used:**

1. **Visual Studio 2017 with .NET framework 4.6.1**  
   - used to create Windows forms
2. **Oracle Database 10g express edition**  
   - used to create an Oracle database
3. **ODP.NET Managed Driver**  
   - used to create a database connection to the windows forms
4. **EDraw Max**  
   - used to create the ER Diagram
5. **Notepad**

-Used to write xml code

**System requirements:**

1. **Visual Studio 2017 with .NET framework 4.6.1**

**Supported Operating Systems:** Visual Studio 2017 will install and run on the following operating systems:

* Windows 10 version 1507 or higher: Home, Professional, Education, and
* Enterprise (LTSC and S are not supported)
* Windows Server 2016: Standard and Datacentre
* Windows 8.1 (with Update 2919355): Core, Professional, and Enterprise
* Windows Server 2012 R2 (with Update 2919355): Essentials, Standard, Datacentre
* Windows 7 SP1 (with latest Windows Updates): Home Premium, Professional, Enterprise, Ultimate

**Hardware:**

* 1.8 GHz or faster processor. Dual-core or better recommended
* 2 GB of RAM; 4 GB of RAM recommended (2.5 GB minimum if running on a virtual machine)
* Hard disk space: up to 130 GB of available space, depending on features installed; typical installations require 20-50 GB of free space.
* Hard disk speed: to improve performance, install Windows and Visual Studio on a solid-state drive (SSD).
* Video card that supports a minimum display resolution of 720p (1280 by 720); Visual Studio will work best at a resolution of WXGA (1366 by 768) or higher.

**Additional Requirements:**

* .NET Framework 4.5.2 or above is required to **install** Visual Studio. Visual Studio requires .NET Framework 4.7.2 to run, but this will be installed during setup.

**Operating system general requirements:** Oracle Database for Windows x64 is supported on the following operating system versions:

* Windows 7 x64 - Professional, Enterprise, and Ultimate editions
* Windows 8 x64 and Windows 8.1 x64 - Pro and Enterprise editions
* Windows 8.1 x64 - Pro and Enterprise editions
* Windows 10 x64 - Pro, Enterprise, and Education editions
* Windows Server 2012 x64 - Standard, Datacentre, Essentials, and Foundation editions
* Windows Server 2012 R2 x64 - Standard, Datacentre, Essentials, and Foundation editions
* Windows Server 2016 x64 - Standard, Datacentre, and Essentials editions

**HARDWARE SPECIFICATION:**

* **Main Memory (RAM):** 4GB or above
* **Secondary Storage:** 200GB or above
* **Monitor:** Any colour Monitor of 24bit Resolution
* **Mouse:** General Windows supported
* **Keyboard:** General Multimedia Windows/Linux supported
* **Processor:** Intel® Core™ i5- 8250U CPU @ 1.60GHz 1.80GHz
* **Model used:** Aspire A515-51G

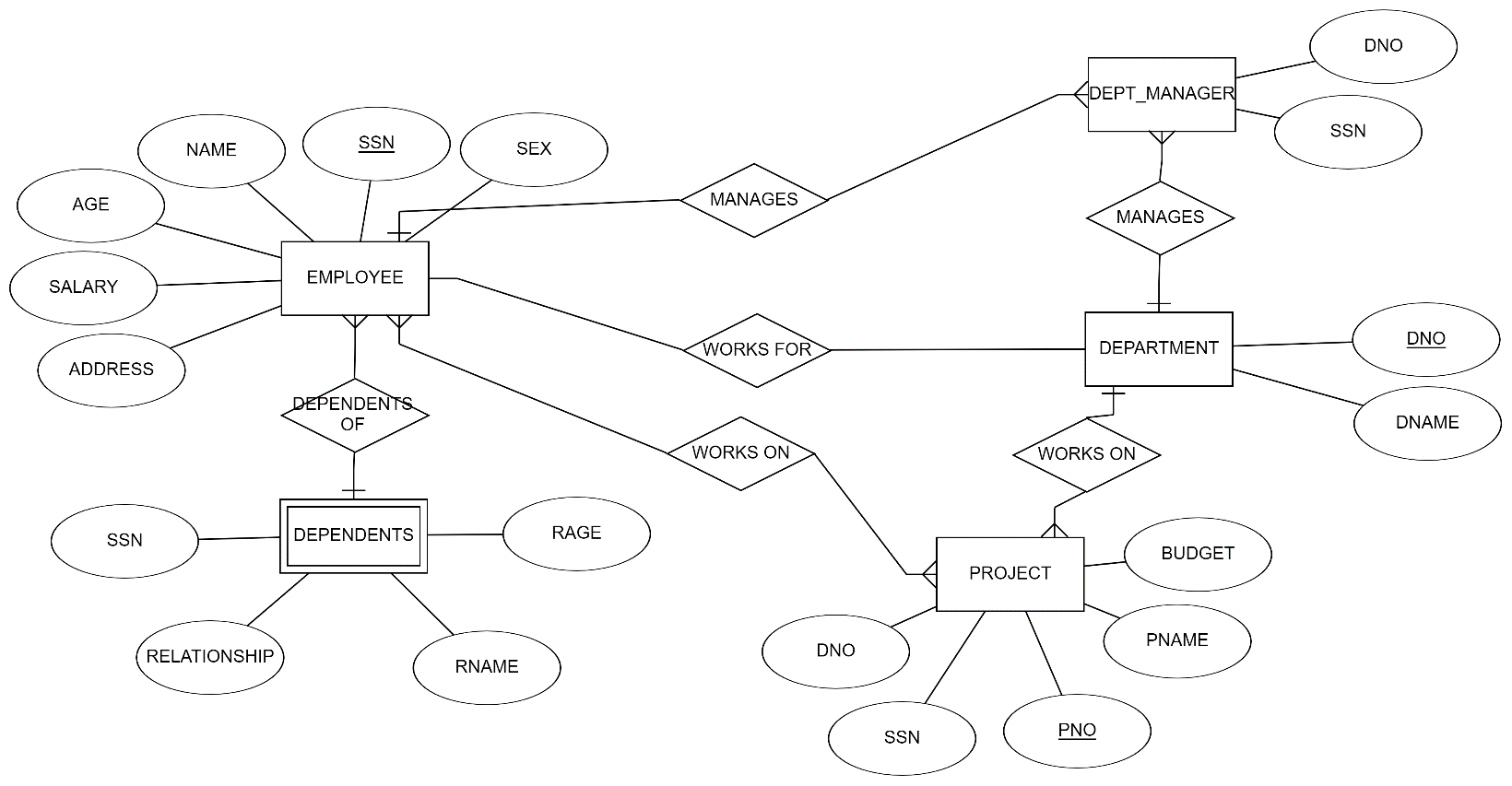
**Oracle Database 10g Express Edition:**

* **Oracle 10g PC Minimum Hardware Requirements:**

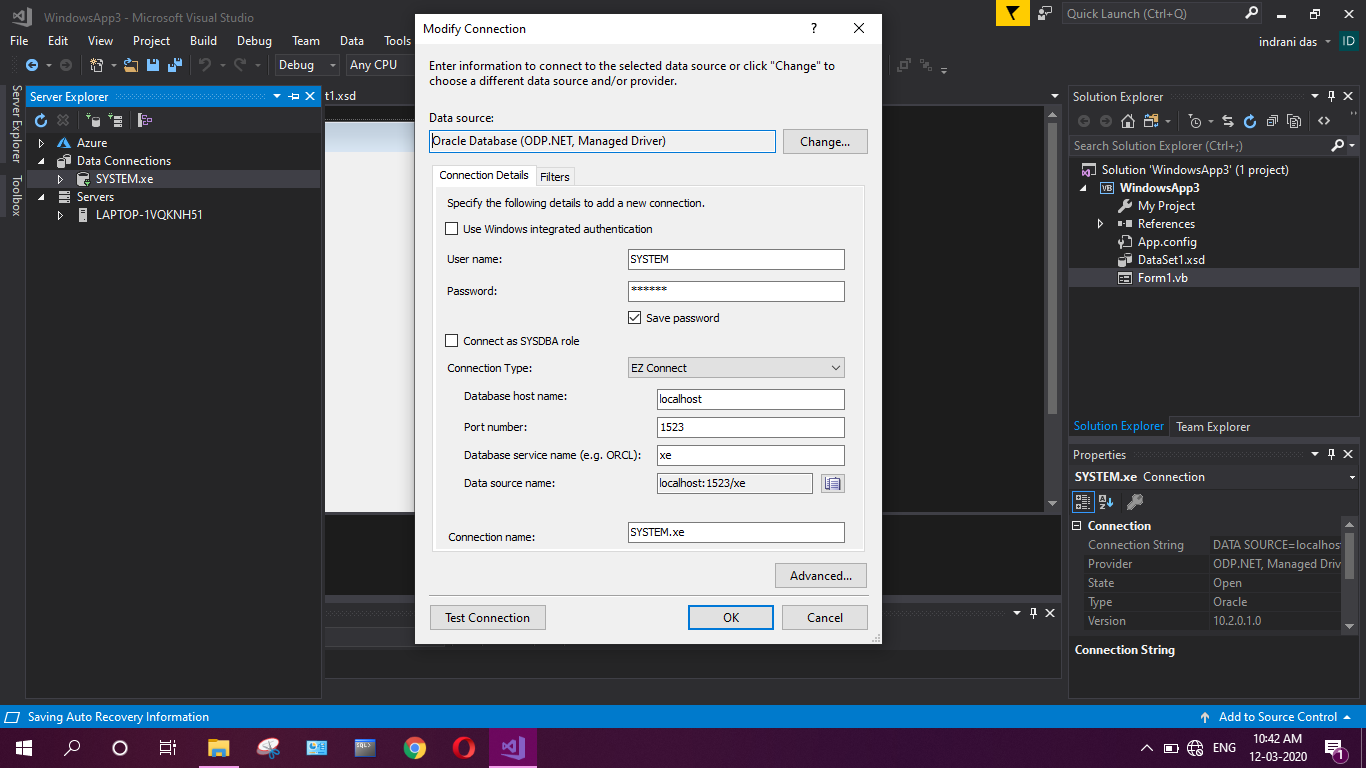
|  |  |
| --- | --- |
| Physical memory (RAM) | 512 MB recommended |
| Virtual memory | Double the amount of RAM |
| Temp disk space | Hard disk space 1.5 GB |
| Video adapter | 256 colors |
| CPU Processor | 200 MHz minimum |

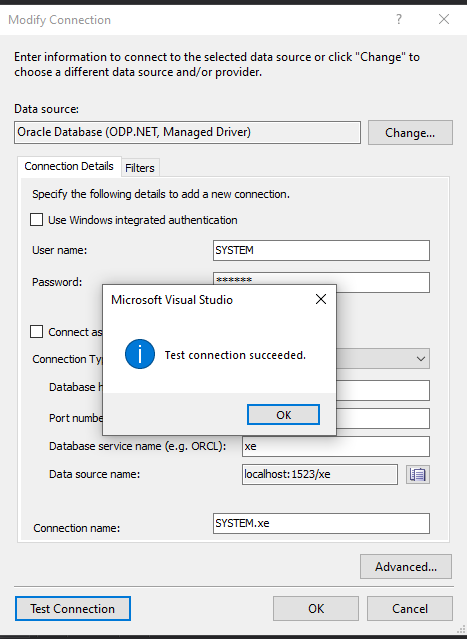
* **Oracle 10g Minimum Windows System Requirements:**

|  |  |
| --- | --- |
| Architecture | 32 bit or 64 bit |
| Windows OS | - Windows NT Server 4.0 - Windows NT Server Enterprise Ed. 4.0 - Windows NTTerminal Server Edition with SP 6 - Windows 2000 with SP 1 or higher - Windows Server 2003 - Windows XP Professional |
| Network protocol | - TCP/IP - TCP/IP with SSL - Named Pipes |

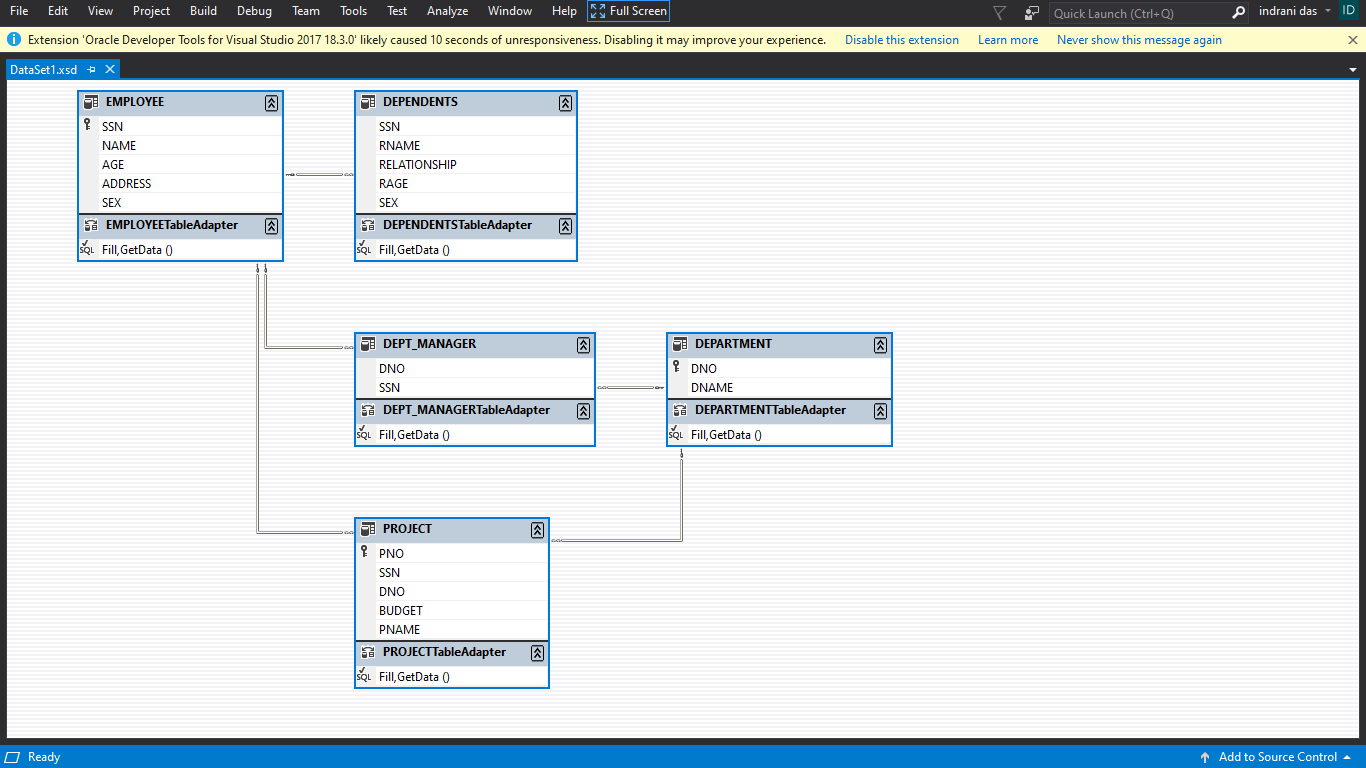
**E-R DIAGRAM:** By defining the entities, their attributes, and showing the relationships between them, an ER diagram illustrates the logical structure of database

**CONNECTION:**





XML SCHEMA:

****An XML Schema describes the structure of an XML document. The XML Schema language is also referred to as XML Schema Definition (XSD).

**CODING:**

<?xmlversion="1.0encoding="utf-8"?>

<xs:schema id="DataSet1" targetNamespace="http://tempuri.org/DataSet1.xsd" xmlns:mstns="http://tempuri.org/DataSet1.xsd" xmlns="http://tempuri.org/DataSet1.xsd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:msdata="urn:schemas-microsoft-com:xml-msdata" xmlns:msprop="urn:schemas-microsoft-com:xml-msprop" attributeFormDefault="qualified" elementFormDefault="qualified">

<xs:annotation>

<xs:appinfo source="urn:schemas-microsoft-com:xml-msdatasource">

<DataSource DefaultConnectionIndex="0" FunctionsComponentName="QueriesTableAdapter" Modifier="AutoLayout, AnsiClass, Class, Public" SchemaSerializationMode="IncludeSchema" xmlns="urn:schemas-microsoft-com:xml-msdatasource">

<Connections>

<Connection AppSettingsObjectName="MySettings" AppSettingsPropertyName="ConnectionString" ConnectionStringObject="" IsAppSettingsProperty="true" Modifier="Assembly" Name="ConnectionString (MySettings)" ParameterPrefix=":" PropertyReference="ApplicationSettings.company2.My.MySettings.GlobalReference.Default.ConnectionString" Provider="Oracle.ManagedDataAccess.Client" />

</Connections>

<Tables>

<TableAdapter BaseClass="System.ComponentModel.Component" DataAccessorModifier="AutoLayout, AnsiClass, Class, Public" DataAccessorName="EMPLOYEETableAdapter" GeneratorDataComponentClassName="EMPLOYEETableAdapter" Name="EMPLOYEE" UserDataComponentName="EMPLOYEETableAdapter">

<MainSource>

<DbSource ConnectionRef="ConnectionString (MySettings)" DbObjectName="SYSTEM.EMPLOYEE" DbObjectType="Table" FillMethodModifier="Public" FillMethodName="Fill" GenerateMethods="Both" GenerateShortCommands="true" GeneratorGetMethodName="GetData" GeneratorSourceName="Fill" GetMethodModifier="Public" GetMethodName="GetData" QueryType="Rowset" ScalarCallRetval="System.Object, mscorlib, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" UseOptimisticConcurrency="true" UserGetMethodName="GetData" UserSourceName="Fill">

<DeleteCommand>

<DbCommand CommandType="Text" ModifiedByUser="false">

<CommandText>DELETE FROM "SYSTEM"."EMPLOYEE" WHERE (("SSN" = :Original\_SSN) AND ((:IsNull\_NAME = 1 AND "NAME" IS NULL) OR ("NAME" = :Original\_NAME)) AND ((:IsNull\_AGE = 1 AND "AGE" IS NULL) OR ("AGE" = :Original\_AGE)) AND ((:IsNull\_SALARY = 1 AND "SALARY" IS NULL) OR ("SALARY" = :Original\_SALARY)) AND ((:IsNull\_ADDRESS = 1 AND "ADDRESS" IS NULL) OR ("ADDRESS" = :Original\_ADDRESS)) AND ((:IsNull\_DESIGNATION = 1 AND "DESIGNATION" IS NULL) OR ("DESIGNATION" = :Original\_DESIGNATION)) AND ((:IsNull\_SEX = 1 AND "SEX" IS NULL) OR ("SEX" = :Original\_SEX)))</Command <Parameters>

<Parameter AllowDbNull="false" AutogeneratedName="" DataSourceName="" DbType="String" Direction="Input" ParameterName="Original\_SSN" Precision="0" ProviderType="Varchar2" Scale="0" Size="5" SourceColumn="SSN" SourceColumnNullMapping="false" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="IsNull\_NAME" Precision="0" ProviderType="Int32" Scale="0" Size="10" SourceColumn="NAME" SourceColumnNullMapping="true" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="String" Direction="Input" ParameterName="Original\_NAME" Precision="0" ProviderType="Varchar2" Scale="0" Size="10" SourceColumn="NAME" SourceColumnNullMapping="false" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="IsNull\_AGE" Precision="0" ProviderType="Int32" Scale="0" Size="22" SourceColumn="AGE" SourceColumnNullMapping="true" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int16" Direction="Input" ParameterName="Original\_AGE" Precision="0" ProviderType="Int16" Scale="0" Size="22" SourceColumn="AGE" SourceColumnNullMapping="false" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="IsNull\_SALARY" Precision="0" ProviderType="Int32" Scale="0" Size="22" SourceColumn="SALARY" SourceColumnNullMapping="true" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="Original\_SALARY" Precision="0" ProviderType="Int32" Scale="0" Size="22" SourceColumn="SALARY" SourceColumnNullMapping="false" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="IsNull\_ADDRESS" Precision="0" ProviderType="Int32" Scale="0" Size="10" SourceColumn="ADDRESS" SourceColumnNullMapping="true" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="String" Direction="Input" ParameterName="Original\_ADDRESS" Precision="0" ProviderType="Varchar2" Scale="0" Size="10" SourceColumn="ADDRESS" SourceColumnNullMapping="false" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="IsNull\_DESIGNATION" Precision="0" ProviderType="Int32" Scale="0" Size="10" SourceColumn="DESIGNATION" SourceColumnNullMapping="true" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="String" Direction="Input" ParameterName="Original\_DESIGNATION" Precision="0" ProviderType="Varchar2" Scale="0" Size="10" SourceColumn="DESIGNATION" SourceColumnNullMapping="false" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="IsNull\_SEX" Precision="0" ProviderType="Int32" Scale="0" Size="2" SourceColumn="SEX" SourceColumnNullMapping="true" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="String" Direction="Input" ParameterName="Original\_SEX" Precision="0" ProviderType="Varchar2" Scale="0" Size="2" SourceColumn="SEX" SourceColumnNullMapping="false" SourceVersion="Original" />

</Parameters>

</DbCommand>

</DeleteCommand>

<InsertCommand>

<DbCommand CommandType="Text" ModifiedByUser="false">

<CommandText>INSERT INTO "SYSTEM"."EMPLOYEE" ("SSN", "NAME", "AGE", "SALARY", "ADDRESS", "DESIGNATION", "SEX") VALUES (:SSN, :NAME, :AGE, :SALARY, :ADDRESS, :DESIGNATION, :SEX)</CommandText>

<Parameters>

<Parameter AllowDbNull="false" AutogeneratedName="" DataSourceName="" DbType="String" Direction="Input" ParameterName="SSN" Precision="0" ProviderType="Varchar2" Scale="0" Size="5" SourceColumn="SSN" SourceColumnNullMapping="false" SourceVersion="Current" />

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<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int16" Direction="Input" ParameterName="AGE" Precision="0" ProviderType="Int16" Scale="0" Size="22" SourceColumn="AGE" SourceColumnNullMapping="false" SourceVersion="Current" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="SALARY" Precision="0" ProviderType="Int32" Scale="0" Size="22" SourceColumn="SALARY" SourceColumnNullMapping="false" SourceVersion="Current" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="String" Direction="Input" ParameterName="ADDRESS" Precision="0" ProviderType="Varchar2" Scale="0" Size="10" SourceColumn="ADDRESS" SourceColumnNullMapping="false" SourceVersion="Current" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="String" Direction="Input" ParameterName="DESIGNATION" Precision="0" ProviderType="Varchar2" Scale="0" Size="10" SourceColumn="DESIGNATION" SourceColumnNullMapping="false" SourceVersion="Current" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="String" Direction="Input" ParameterName="SEX" Precision="0" ProviderType="Varchar2" Scale="0" Size="2" SourceColumn="SEX" SourceColumnNullMapping="false" SourceVersion="Current" />

</Parameters>

</DbCommand>

</InsertCommand>

<SelectCommand>

<DbCommand CommandType="Text" ModifiedByUser="false">

<CommandText>SELECT SSN, "NAME", AGE, SALARY, ADDRESS, DESIGNATION, SEX FROM SYSTEM.EMPLOYEE</CommandText>

<Parameters />

</DbCommand>

</SelectCommand>

<UpdateCommand>

<DbCommand CommandType="Text" ModifiedByUser="false">

<CommandText>UPDATE "SYSTEM"."EMPLOYEE" SET "SSN" = :SSN, "NAME" = :NAME, "AGE" = :AGE, "SALARY" = :SALARY, "ADDRESS" = :ADDRESS, "DESIGNATION" = :DESIGNATION, "SEX" = :SEX WHERE (("SSN" = :Original\_SSN) AND ((:IsNull\_NAME = 1 AND "NAME" IS NULL) OR ("NAME" = :Original\_NAME)) AND ((:IsNull\_AGE = 1 AND "AGE" IS NULL) OR ("AGE" = :Original\_AGE)) AND ((:IsNull\_SALARY = 1 AND "SALARY" IS NULL) OR ("SALARY" = :Original\_SALARY)) AND ((:IsNull\_ADDRESS = 1 AND "ADDRESS" IS NULL) OR ("ADDRESS" = :Original\_ADDRESS)) AND ((:IsNull\_DESIGNATION = 1 AND "DESIGNATION" IS NULL) OR ("DESIGNATION" = :Original\_DESIGNATION)) AND ((:IsNull\_SEX = 1 AND "SEX" IS NULL) OR ("SEX" = :Original\_SEX)))</CommandText>

<Parameters>

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<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int16" Direction="Input" ParameterName="Original\_AGE" Precision="0" ProviderType="Int16" Scale="0" Size="22" SourceColumn="AGE" SourceColumnNullMapping="false" SourceVersion="Original" />

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<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="Original\_SALARY" Precision="0" ProviderType="Int32" Scale="0" Size="22" SourceColumn="SALARY" SourceColumnNullMapping="false" SourceVersion="Original" />

<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="IsNull\_ADDRESS" Precision="0" ProviderType="Int32" Scale="0" Size="10" SourceColumn="ADDRESS" SourceColumnNullMapping="true" SourceVersion="Original" />

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<Parameter AllowDbNull="true" AutogeneratedName="" DataSourceName="" DbType="Int32" Direction="Input" ParameterName="IsNull\_SEX" Precision="0" ProviderType="Int32" Scale="0" Size="2" SourceColumn="SEX" SourceColumnNullMapping="true" SourceVersion="Original" />

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</DbCommand>

</UpdateCommand>

</DbSource>

</MainSource>

<Mappings>

<Mapping SourceColumn="SSN" DataSetColumn="SSN" />

<Mapping SourceColumn="NAME" DataSetColumn="NAME" />

<Mapping SourceColumn="AGE" DataSetColumn="AGE" />

<Mapping SourceColumn="SALARY" DataSetColumn="SALARY" />

<Mapping SourceColumn="ADDRESS" DataSetColumn="ADDRESS" />

<Mapping SourceColumn="DESIGNATION" DataSetColumn="DESIGNATION" />

<Mapping SourceColumn="SEX" DataSetColumn="SEX" />

</Mappings>

<Sources />

</TableAdapter>

</Tables>

<Sources />

</DataSource>

</xs:appinfo>

</xs:annotation>

<xs:element name="DataSet1" msdata:IsDataSet="true" msdata:UseCurrentLocale="true" msprop:EnableTableAdapterManager="True" msprop:Generator\_DataSetName="DataSet1" msprop:Generator\_UserDSName="DataSet1">

<xs:complexType>

<xs:choice minOccurs="0" maxOccurs="unbounded">

<xs:element name="EMPLOYEE" msprop:Generator\_TableClassName="EMPLOYEEDataTable" msprop:Generator\_TableVarName="tableEMPLOYEE" msprop:Generator\_TablePropName="EMPLOYEE" msprop:Generator\_RowDeletingName="EMPLOYEERowDeleting" msprop:Generator\_RowChangingName="EMPLOYEERowChanging" msprop:Generator\_RowEvHandlerName="EMPLOYEERowChangeEventHandler" msprop:Generator\_RowDeletedName="EMPLOYEERowDeleted" msprop:Generator\_UserTableName="EMPLOYEE" msprop:Generator\_RowChangedName="EMPLOYEERowChanged" msprop:Generator\_RowEvArgName="EMPLOYEERowChangeEvent" msprop:Generator\_RowClassName="EMPLOYEERow">

<xs:complexType>

<xs:sequence>

<xs:element name="SSN" msprop:Generator\_ColumnVarNameInTable="columnSSN" msprop:Generator\_ColumnPropNameInRow="SSN" msprop:Generator\_ColumnPropNameInTable="SSNColumn" msprop:Generator\_UserColumnName="SSN">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:maxLength value="5" />

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="NAME" msprop:Generator\_ColumnVarNameInTable="columnNAME" msprop:Generator\_ColumnPropNameInRow="NAME" msprop:Generator\_ColumnPropNameInTable="NAMEColumn" msprop:Generator\_UserColumnName="NAME" minOccurs="0">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:maxLength value="10" />

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="AGE" msprop:Generator\_ColumnVarNameInTable="columnAGE" msprop:Generator\_ColumnPropNameInRow="AGE" msprop:Generator\_ColumnPropNameInTable="AGEColumn" msprop:Generator\_UserColumnName="AGE" type="xs:short" minOccurs="0" />

<xs:element name="SALARY" msprop:Generator\_ColumnVarNameInTable="columnSALARY" msprop:Generator\_ColumnPropNameInRow="SALARY" msprop:Generator\_ColumnPropNameInTable="SALARYColumn" msprop:Generator\_UserColumnName="SALARY" type="xs:int" minOccurs="0" />

<xs:element name="ADDRESS" msprop:Generator\_ColumnVarNameInTable="columnADDRESS" msprop:Generator\_ColumnPropNameInRow="ADDRESS" msprop:Generator\_ColumnPropNameInTable="ADDRESSColumn" msprop:Generator\_UserColumnName="ADDRESS" minOccurs="0">

<xs:simpleType>

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<xs:maxLength value="10" />

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="DESIGNATION" msprop:Generator\_ColumnVarNameInTable="columnDESIGNATION" msprop:Generator\_ColumnPropNameInRow="DESIGNATION" msprop:Generator\_ColumnPropNameInTable="DESIGNATIONColumn" msprop:Generator\_UserColumnName="DESIGNATION" minOccurs="0">

<xs:simpleType>

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<xs:maxLength value="10" />

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="SEX" msprop:Generator\_ColumnVarNameInTable="columnSEX" msprop:Generator\_ColumnPropNameInRow="SEX" msprop:Generator\_ColumnPropNameInTable="SEXColumn" msprop:Generator\_UserColumnName="SEX" minOccurs="0">

<xs:simpleType>

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<xs:maxLength value="2" />

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:choice>

</xs:complexType>

<xs:unique name="Constraint1" msdata:PrimaryKey="true">

<xs:selector xpath=".//mstns:EMPLOYEE" />

<xs:field xpath="mstns:SSN" />

</xs:unique

</xs:element>

</xs:schema>