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TS: Accessing Data with Microsoft .NET Framework 4

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QUESTION 1

You use Microsoft .NET Framework 4 to create a data access layer component.

The component accesses data from a Microsoft SQL Server database named DB1. The component contains a class named Classl that represents data from a table in DB1 named Tablel. The following is the definition of Classl:

```
<EdmEntityTypeAttribute(NamespaceName="EDMClass1", Name="Class1")> _
<Serializable()> _
<DataContractAttribute(IsReference=true)> _
Public Partial Class Class1 : Inherits EntityObject
  <DataMemberAttribute()> _
  public global::System.Int32 ID{…}
  <DataMemberAttribute()> _
  public global::System.String Name{…}
  <DataMemberAttribute()> _
  public global::System.String Description{…}
End Class
```

A database developer creates the following stored procedure to add entries to Table1:

```
CREATE PROC [DB].[uspAddTable1]
  @id int,
  @name nvarchar(200),
  @desc nvarchar(max) AS
BEGIN
  SET NOCOUNT ON;
  INSERT INTO [DB].[Table1] (idnumber, shortname, longname)
    VALUES (@id, @name, @description);
END;
```

You need to edit the Entity Data Model (EDM) for EDMClassl to use the uspInsertTablel stored procedure to add data to the database.

What should you do? (Develop the solution by selecting and ordering the required code snippets. You may not need all of the code snippets.)

Select and Place:

```
<ScalarProperty Name="ID" ParameterName="id"
 />

<ScalarProperty Name="Name" ParameterName="n
ame" />
<ScalarProperty Name="Description" Parameter
Name="desc" />
```

```
</ModificationFunctionMapping>
```

```
<ScalarProperty Name="ID" ParameterName="idn
umber" />

<ScalarProperty Name="Name" ParameterName="s
hortname" />
<ScalarProperty Name="Description" Parameter
Name="longname" />
```

```
</InsertFunction>
```

```
<ModificationFunctionMapping>
```

```
<InsertFunction FunctionName="EDMClass1.Clas
s1.uspAddTable1" >
```

```
</UpdateFunction>
```

```
<UpdateFunction FunctionName="EDMClass1.Clas
s1.uspAddTable1" >
```

Correct Answer:

Answer Area

```
<ModificationFunctionMapping>

<InsertFunction FunctionName="EDMClass1.Clas
s1.uspAddTable1" >

<ScalarProperty Name="ID" ParameterName="id"
/>

<ScalarProperty Name="Name" ParameterName="n
ame" />
<ScalarProperty Name="Description" Parameter
Name="desc" />

</InsertFunction>

</ModificationFunctionMapping>
```

```
<ScalarProperty Name="ID" ParameterName="idn
umber" />

<ScalarProperty Name="Name" ParameterName="s
hortname" />
<ScalarProperty Name="Description" Parameter
Name="longname" />
```

```
</UpdateFunction>
```

```
<UpdateFunction FunctionName="EDMClass1.Clas
s1.uspAddTable1" >
```

Explanation:

Note:

* The ModificationFunctionMapping element in mapping specification language (MSL) maps the insert, update, and delete functions of a conceptual model entity type to stored procedures in the underlying database. The

ModificationFunctionMapping element can also map the insert and delete functions for many-to-many associations in the conceptual model to stored procedures in the underlying database.

* Example:

QUESTION 2

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The application uses DataContexts to query the database.

You create a function that meets the following requirements: Updates the Customer table on the database when a customer is marked as deleted Updates the related entries in other tables (CustomerAddress, CustomerContacts) by marking them as deleted Prevents consumer code from setting the Deleted columns value directly

You need to ensure that the function verifies that customers have no outstanding orders before they are marked as deleted. You also need to ensure that existing applications can use the updated function without requiring changes in the code.

What should you do?

A. Override the Delete operation of the DataContext object.

B. Override the Update operation of the DataContext object.

C. Modify the SELECT SQL statement provided to the DataContext object to use an INNER JOIN between the Customer and Orders tables.

D. Add new entities to the DataContext object for the Customers and Orders tables.

Correct Answer: A

QUESTION 3

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to develop an application that uses the Entity Framework. You create an Entity Data Model (EDM) named Model. You need to ensure that the Storage Schema Definition

Language (SSDL) of the EDM can be modified without rebuilding the application.

What should you do?

A. Set the Metadata Artifact Processing property to Embed in Output Assembly and use the following connection string.metadata=res://*/Model.csdl|res://*/ Model.ssdl| res://*/Model.msl;provider=System.Data.SqlClient;provider connection string="and "

B. Set the Metadata Artifact Processing property to Copy to Output Directory and use the following connection string.metadata=res://*/Model.csdl|res://*/ Model.ssdl| res://*/Model.msl;provider=System.Data.SqlClient;provider connection stringand ="and "

C. Set the Metadata Artifact Processing property to Embed in Output Assembly and use the following connection string.metadata=.\Model.csdl|.\Model.ssdl|.\Model.msl;provider=System.Data.SqlClient;provider connection string="and "

D. Set the Metadata Artifact Processing property to Copy to Output Directory and use the following connection string.metadata=.\Model.csdl|.\Model.ssdl|.\Model.msl;provider=System.Data.SqlClient;provider connection stringand ="and "

Correct Answer: D

How to: Copy Model and Mapping Files to the Output Directory (Entity Data Model Tools) (http://msdn.microsoft.com/en-us/library/cc716709.aspx)

QUESTION 4

You are developing a WCF data service that will expose an existing Entity Data Model (EDM).

You have the following requirements:

Users must be able to read all entities that are exposed in the EDM.

Users must be able to update or replace the SalesOrderHeader entities.

Users must be prevented from inserting or deleting the SalesOrderHeader entities

You need to ensure that the data service meets the requirements. Which code segment should you use in the Initialize method?

A. config.SetEntitySetAccessRule("*", EntitySetRights.AllRead); config.SetEntitySetAccessRule ("SalesOrderHeader", EntitySetRights.AllWrite);

B. config.SetEntitySetAccessRule("*", EntitySetRights.AllRead); config.SetEntitySetAccessRule ("SalesOrderHeader", EntitySetRights.WriteMerge | EntitySetRights.WriteReplace);

C. config.SetEntitySetAccessRule("*", EntitySetRights.AllRead); config.SetEntitySetAccessRule ("SalesOrderHeader", EntitySetRights.WriteAppend | EntitySetRights.WriteDelete);

D. config.SetEntitySetAccessRule("*", EntitySetRights.AllRead); config.SetEntitySetAccessRule ("SalesOrderHeader", EntitySetRights.All);

Correct Answer: B

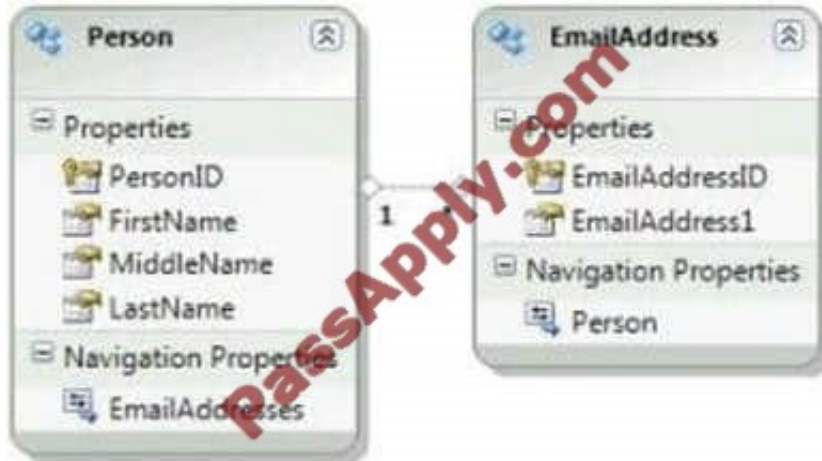http://msdn.microsoft.com/en-us/library/system.data.services.entitysetrights.aspx http://msdn.microsoft.com/en-us/library/ee358710.aspx

QUESTION 5

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to develop an application. You use the ADO.NET Entity Framework Designer to model entities. The application includes self- tracking entities as shown in the following diagram.

There is a Person entity named person1 that has Track Changes turned on.

You need to delete all e-mail addresses that are associated with person1 by using an ObjectContext named context.

What are two possible code segments that you can use to achieve this goal? (Each correct answer presents a complete solution. Choose two).

A. For Each email in person1.EmailAddressesemail.MarkAsDeleted()Nextcontext.SaveChanges()

B. While (person1.EmailAddresses.Count() > 0)person1.EmailAddresses.RemoveAt(0)End Whilecontext.SaveChanges()

C. person1.EmailAddresses = Nothingcontext.SaveChanges()

D. person1.EmailAddresses = New _TrackableCollection(Of EmailAddress)()context.SaveChanges()

Correct Answer: BC

Working with Self-Tracking Entities

(http://msdn.microsoft.com/en-us/library/ff407090.aspx) Working with Sets of Self-Tracking Entities (http://blogs.msdn.com/b/adonet/archive/2010/06/02/working-with-sets-of-self-tracking-entities.aspx)

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