



70-516^{Q&As}

TS: Accessing Data with Microsoft .NET Framework 4

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QUESTION 1

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. You use Entity SQL of the ADO .NET Entity Framework to retrieve data from the database.

You need to define a custom function in the conceptual model. You also need to ensure that the function calculates a value based on properties of the object.

Which two XML element types should you use? (Each correct answer presents part of the solution Choose two.)

- A. Function
- B. Function Import
- C. Dependent
- D. Association
- E. DefiningExpression

Correct Answer: AE

CHAPTER 6 ADO.NET Entity Framework

Lesson 1: What Is the ADO.NET Entity Framework?

Model-Defined Functions (page 413)

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 database. The application uses the following object query to load a product from the database. (Line numbers are included for reference only.)

```
01 Using advWorksContext As New AdventureWorksEntities() 02 Dim productQuery As ObjectQuery(Of Product) = 03  
advWorksContext.Product.Where("it.ProductID = 900") 05 End Using
```

You need to log the command that the query executes against the data source.

Which code segment should you insert at line 04?

- A. `Trace.WriteLine(productQuery.ToString())`
- B. `Trace.WriteLine(productQuery.ToTraceString())`
- C. `Trace.WriteLine(productQuery.CommandText)`
- D. `Trace.WriteLine((DirectCast(productQuery, IQueryable)).Expression)`

Correct Answer: B



CHAPTER 8 Developing Reliable Applications Lesson 1: Monitoring and Collecting Performance Data Accessing SQL Generated by the Entity Framework (page 509)

QUESTION 3

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to model persistence-ignorant entities. The application operates in a disconnected mode.

You need to ensure that changes made to local entities while the application is in the disconnected mode are correctly persisted. Which method should you call before persisting changes?

- A. `ObjectStateEntry.SetModifiedProperty`
- B. `DataContext.AcceptAllChanges`
- C. `ObjectStateEntry.AcceptChanges`
- D. `ObjectContext.Refresh`

Correct Answer: A

`ObjectStateEntry.SetModifiedProperty(string propertyName)` Method Marks the specified property as modified.

QUESTION 4

You use Microsoft .NET Framework 4 to develop an application that uses Entity Framework. The application includes the following Entity SQL (ESQL) query.

```
SELECT VALUE product FROM AdventureHorksEntities.Products As product ORDER BY product.ListPrice
```

You need to modify the query to support paging of the query results.

Which query should you use?

- A. `SELECT TOP Stop VALUE product FROM AdventureHorksEntities.Products AS product ORDER BY product.ListPrice SKIP @skip`
- B. `SELECT VALUE product FROM AdventureHorksEntities.Products AS product ORDER BY product.ListPrice SKIP @skip LIMIT @limit`
- C. `SELECT SKIP @skip VALUE product FROM AdventureHorksEntities.Products AS product ORDER BY product.ListPrice LIMIT @limit`
- D. `SELECT SKIP @skip TOP Stop VALUE product FROM AdventureHorksEntities.Products AS product ORDER BY product.ListPrice`

Correct Answer: B

Entity SQL Reference

(<http://msdn.microsoft.com/en-us/library/bb387118.aspx>) How to: Page Through Query Results
(<http://msdn.microsoft.com/en-us/library/bb738702.aspx>)



QUESTION 5

The database contains a table named Categories. The Categories table has a primary key identity column named CategoryID.

The application inserts new records by using the following stored procedure.

```
CREATE PROCEDURE dbo.InsertCategory
```

```
@CategoryName nvarchar(15),
```

```
@Identity int OUT
```

```
AS
```

```
INSERT INTO Categories (CategoryName) VALUES(@CategoryName) SET @Identity = SCOPE_IDENTITY()  
RETURN @@ROWCOUNT
```

You write the following code segment.

```
SqlDataAdapter adapter = new SqlDataAdapter("SELECT categoryID, CategoryName FROM  
dbo.Categories",connection); adapter.InsertCommand = new SqlCommand("dbo.InsertCategory", connection);
```

```
adapter.InsertCommand.CommandType = CommandType.StoredProcedure;  
adapter.InsertCommand.Parameters.Add(new SqlParameter("@CategoryName", SqlDbTypeType.
```

```
NVarChar, 15,"CategoryName"));
```

You need to retrieve the identity value for the newly created record.

Which code segment should you add?

```
A. SqlParameter parameter = adapter.InsertCommand.Parameters.Add("@CategoryName",  
SqlDbType.Int);parameter.Direction = ParameterDirection.Output;parameter =  
adapter.InsertCommand.Parameters.Add("@Identity", SqlDbTypeType.Int, 0, "CategoryID");parameter.Direction =  
ParameterDirection.Output;
```

```
B. SqlParameter parameter = adapter.InsertCommand.Parameters.Add("@CategoryName",  
SqlDbType.Int);parameter.Direction = ParameterDirection.Output;parameter =  
adapter.InsertCommand.Parameters.Add("@Identity", SqlDbTypeType.Int, 0, "CategoryID");parameter.Direction =  
ParameterDirection.ReturnValue;
```

```
C. SqlParameter parameter = adapter.InsertCommand.Parameters.Add("@RowCount",  
SqlDbType.Int);parameter.Direction = ParameterDirection.ReturnValue;parameter =  
adapter.InsertCommand.Parameters.Add("@Identity", SqlDbTypeType.Int, 0, "CategoryID");parameter.Direction =  
ParameterDirection.Output;
```

```
D. SqlParameter parameter = adapter.InsertCommand.Parameters.Add("@RowCount",  
SqlDbType.Int);parameter.Direction = ParameterDirection.Output;parameter =  
adapter.InsertCommand.Parameters.Add("@Identity", SqlDbTypeType.Int, 0, "CategoryID");parameter.Direction =  
ParameterDirection.ReturnValue
```

Correct Answer: C



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