



70-516^{Q&As}

TS: Accessing Data with Microsoft .NET Framework 4

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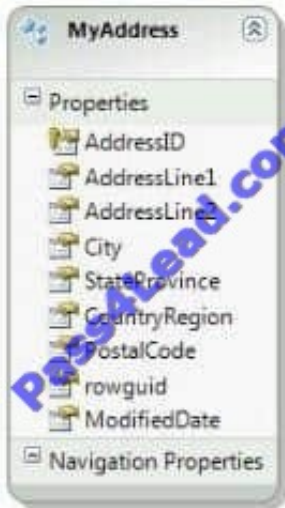
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QUESTION 1

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to develop an application. You use the Entity Framework Designer to create the following Entity Data Model.



The application contains a class as shown in the following code segment.

```
Public Class MyBaseClass Inherits EntityObject End Class
```

You need to ensure that all generated entities inherit from MyBaseClass. What should you do?

- A. Use the ADO.NET EntityObject Generator template to configure all entities to inherit from MyBaseClass.
- B. Modify the generated code file so that all entities inherit from MyBaseClass.
- C. Create a new ObjectQuery that uses MyBaseClass as the type parameter.
- D. Change MyBaseClass to inherit fromObjectContext.

Correct Answer: A

You can use the Text Template Transformation Toolkit (T4) to generate your entity classes, and Visual Studio .NET provides the T4 EntityObject Generator template by which you can control the entity object generation. Visual Studio .NET also provides the T4 SelfTracking Entity Generator template by which you can create and control the Add an EntityObject Generator to your project and add the new modification to the text template.self-tracking entity classes. Add an EntityObject Generator to your project and add the new modification to the text template. CHAPTER 6 ADO.NET Entity Framework

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

The EntityObject Generator (page 403-404)

<http://blogs.msdn.com/b/efdesign/archive/2009/01/22/customizing-entity-classes-with-t4.aspx>

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 contains two SqlCommand objects named cmd1 and cmd2.

You need to measure the time required to execute each command.

Which code segment should you use?

- A. `Dim w1 As New Stopwatch()w1.Start()cmd1.ExecuteNonQuery()w1.[Stop]`
`()Trace.WriteLine(w1.ElapsedMilliseconds)w1.Start()cmd2.ExecuteNonQuery()w1. [Stop]`
`()Trace.WriteLine(w1.ElapsedMilliseconds)`
- B. `Dim w1 As New Stopwatch()w1.Start()cmd1.ExecuteNonQuery()w1.[Stop]`
`()Trace.WriteLine(w1.ElapsedMilliseconds)w1.Reset()cmd2.ExecuteNonQuery() w1. [Stop]`
`()Trace.WriteLine(w1.ElapsedMilliseconds)`
- C. `Dim w1 As Stopwatch = Stopwatch.StartNew()cmd1.ExecuteNonQuery()w1.[Stop]`
`()Trace.WriteLine(w1.ElapsedMilliseconds)w1.Start() cmd2.ExecuteNonQuery() w1.[Stop]()`
`Trace.WriteLine(w1.ElapsedMilliseconds)`
- D. `Dim w1 As Stopwatch = Stopwatch.StartNew()cmd1.ExecuteNonQuery() w1.[Stop]()`
`Trace.WriteLine(w1.ElapsedMilliseconds) w1 = Stopwatch.StartNew() cmd2.ExecuteNonQuery() w1. [Stop]()`
`Trace.WriteLine(w1.ElapsedMilliseconds)`

Correct Answer: D

A and C do not reset the stopwatch before running cmd2. B does not start the stopwatch after resetting the stopwatch Start() does not reset the stopwatch, whereas StartNew() will create a new instance of the Stop watch and initialise the elapsed time to Zero.

Stopwatch Class

(<http://msdn.microsoft.com/en-us/library/system.diagnostics.stopwatch.aspx>)

QUESTION 3

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to develop an application that will access a WCF data service. The solution contains the projects shown in the following table.

Name	Contents
Application.Model	Entity Framework model
Application.Service	WCF data service
Application.Client	User interface

The WCF data service exposes an Entity Framework model.

You need to access the service by using a WCF Data Services client.

What should you do in the Application.Client project?

- A. Add a reference to the Application.Model project.
- B. Add a reference to the Application.Service project.



- C. Add a service reference that uses the URL of the WCF data service.
- D. Add a Web reference that uses the URL of the WCF data service.

Correct Answer: C

QUESTION 4

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 entities. The model includes the entity shown in the following exhibit.



You need to add a function that returns the number of years since a person was hired.

You also need to ensure that the function can be used within LINQ to Entities queries.

What should you do?

- A. Add the following code fragment to the .edmx file.
`Year(CurrentDateTime()) - Year(date)`
Add the following function to the entity class definition.
`_Public Shared Function YearsSinceNow([date] As DateTime) As Integer
Throw New NotSupportedException("Direct calls are not supported.")
End Function`
- B. Add the following code fragment to the .edmx file.
`Year(CurrentDateTime()) - Year(date)`
Add the following function to the entity class definition.
`_ Public Shared Function YearsSinceNow([date] As DateTime) As Integer
Throw New NotSupportedException("Direct calls are not supported.")
End Function`
- C. Add the following code fragment to the .edmx file.
Add the following function to the entity class definition.
`_Public
Shared Function YearsSinceNow([date] As DateTime) As Integer
Return Year(CurrentDateTime() - Year([date]))
End Function`
- D. Use the Entity Data Model Designer to create a complex property named YearsSinceNow that can be accessed through the LINQ to Entities query at a later time.

Correct Answer: B

How to: Call Model-Defined Functions in Queries

(<http://msdn.microsoft.com/en-us/library/dd456857.aspx>) How to: Call Model-Defined Functions as Object Methods
(<http://msdn.microsoft.com/en-us/library/dd456845.aspx>)

QUESTION 5

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)

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