



# 70-516<sup>Q&As</sup>

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 write the following code segment that executes two commands against the

database within a transaction. (Line numbers are included for reference only)

01 Using connection As New SqlConnection(cnnStr)

02 connection.Open()

03 Dim sqlTran As SqlTransaction = connection.BeginTransaction()

04 Dim command As SqlCommand = connection.CreateCommand()

05 command.Transaction = sqlTran

06 Try

07 command.CommandText = "INSERT INTO Production.ScrapReason(Name) VALUES('Wrong size')" 08  
command.ExecuteNonQuery()

09 command.CommandText = "INSERT INTO Production.ScrapReason(Name) VALUES('Wrong color')" 10  
command.ExecuteNonQuery()

12 End Using

You need to log error information if the transaction fails to commit or roll back.

Which code segment should you insert line 11?

A. sqlTran.Commit() Catch ex As Exception sqlTran.Rollback() Trace.WriteLine(ex.Message) End Try

B. sqlTran.Commit() Catch ex As Exception Trace.WriteLine(ex.Message) Try sqlTran.Rollback() Catch exRollback As Exception Trace.WriteLine(exRollback.Message) End Try End Try

C. Catch ex As Exception Trace.WriteLine(ex.Message) Try sqlTran.Rollback() Catch exRollback As Exception Trace.WriteLine(exRollback.Message) End Try Finally sqlTran.Commit() End Try

D. Catch ex As Exception sqlTran.Rollback() Trace.WriteLine(ex.Message) Finally Try sqlTran.Commit() Catch exCommit As Exception Trace.WriteLine(exCommit.Message) End Try End Try

Correct Answer: B

A would work, but B is better since we are checking for possible errors during the rollback. C and D would try to do a rollback before a commit. The finally block is only executed when the application ends, which may not be the appropriate place to put this logic. Normally, a finally block would contain code to close a Database connection. The finally block executes even if an exception arises.

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## QUESTION 2

You need to write a LINQ query that can be used against a ContosoEntities context object named context to find all



parts that have a duplicate name. Which of the following queries should you use? (Each correct answer presents a complete

solution.

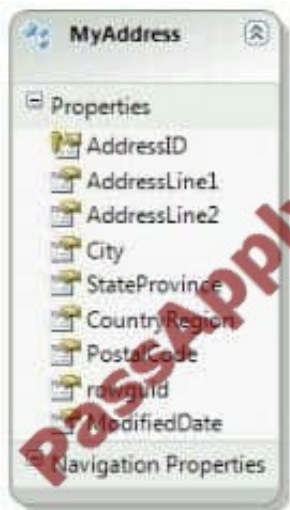
Choose two.)

- A. context.Parts.Where(Function(p) context.Parts.Any(Function(q) q.Name = p.Name AndAlso p.Id
- B. Id))
- C. context.Parts.GroupBy(Function(p) p.Name). Where(Function(g) g.Count() > 1). SelectMany(Function(x) x)
- D. context.Parts.SelectMany(Function(p) context.Parts. Select(Function(q) p.Name = q.Name AndAlso
- E. Id q.Id))
- F. context.Parts. Any(Function(p) context.Parts. Any(Function(q) p.Name = q.Name))

Correct Answer: AB

### QUESTION 3

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>

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#### QUESTION 4

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 the ADO.NET LINQ to Entities model to retrieve data from the database. You need to call a function that is defined in the conceptual model from within the LINQ to Entities queries. You create a common language runtime (CLR) method that maps to the function.

What should you do next?

- A. Declare the method as static
- B. Declare the method as abstract
- C. Apply the EdmFunctionAttribute attribute to the method
- D. Apply the EdmComplexTypAttribute attribute to the method.

Correct Answer: C

CHAPTER 6 ADO.NET Entity Framework

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

Model-Defined Functions (page 413-414)

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#### QUESTION 5

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to develop an application. A file named books.xml contains the following XML.

Author1



Author2

Author 3

The application must generate an XML result that contains an XML element named BookTitle for each book. The text content of the element must contain the title of the book.

You need to create a query that generates the new XML result.

A. Dim document As XDocument = XDocument.Load ("books.xml") Dim query = From node In document.Descendants()Where node.Name.LocalName = "book" Select New XElement("BookTitle", node.FirstAttribute.Value)

B. Dim document As XDocument = XDocument.Load("books.xml") Dim query = From node In document.DescendantNodes()Where node.ToString()= "book"Select New XText("BookTitle" and node.ToString())

C. Dim document As XDocument = XDocument.Load("books.xml") Dim query = From node In document.Descendants()Uhere node.Name.LocalName = "book" Select New XElement("BookTitle").Value -node.FirstAttribute.Value

D. Dim document As XDocument = XDocument.Load("books.xml") Dim query = From node In document.DescendantNodes()Where node.ToString() = "book"Select New XElement("BookTitle", node.ToString())

Correct Answer: A

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