



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 develop an application. You use the ADO.NET Entity Framework Designer to model entities. You retrieve an entity from an object context. A different application updates the database.

You need to update the entity instance to reflect updated values in the database. Which line of code should you use?

- A. `context.Refresh(RefreshMode.StoreWins, entity);`
- B. `context.LoadProperty(entity, "Client", MergeOption.OverwriteChanges);`
- C. `context.AcceptAllChanges();`
- D. `context.LoadProperty[entity, "Server", MergeOption.OverwriteChanges];`

Correct Answer: A

`LoadProperty(Object, String)` Explicitly loads an object related to the supplied object by the specified navigation property and using the default merge option. `AcceptAllChanges` Accepts all changes made to objects in the object context.

`Refresh(RefreshMode, Object)` Updates an object in the object context with data from the data source.

`ObjectContext.Refresh` Method (RefreshMode, Object)

(<http://msdn.microsoft.com/en-us/library/bb896255.aspx>)

QUESTION 2

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Microsoft Windows Forms application. You plan to deploy the application to several shared client computers. You write the following code segment. (Line numbers are included for reference only.)

```
01 Dim config As Configuration = ConfigurationManager.OpenExeConfiguration(exeConfigurationName) 03 config.Save() 04 ...
```

You need to encrypt the connection string stored in the .config file.

Which code segment should you insert at line 02?

- A. `Dim section As ConnectionStringsSection _TryCast(config.GetSection("connectionString"), ConnectionStringsSection) section.SectionInformation.ProtectSection("DataProtectionConfigurationProvider")`
- B. `Dim section As ConnectionStringsSection =TryCast(config.GetSection("connectionStrings"), ConnectionStringsSection) section.SectionInformation.ProtectSection("RsaProtectedConfigurationProvider")`
- C. `Dim section As ConnectionStringsSection =TryCast(config.GetSection("connectionString") ConnectionStringsSection) section.SectionInformation.ProtectSection("RsaProtectedConfigurationProvider")`
- D. `Dim section As ConnectionStringsSection =TryCast(config.GetSection("connectionStrings"), ConnectionStringsSection) section.SectionInformation.ProtectSection("DataProtectionConfigurationProvider")`

Correct Answer: B



You encrypt and decrypt the contents of a Web.config file by using System.Configuration . DPAPIProtectedConfigurationProvider, which uses the Windows Data Protection API (DPAPI) to encrypt and decrypt data, or System.Configuration. RSAProtectedConfigurationProvider, which uses the RSA encryption algorithm to encrypt and decrypt data. When you use the same encrypted configuration file on many computers in a Web farm, only System.Configuration.RSAProtectedConfigurationProvider enables you to export the encryption keys that encrypt the data and import them on another server. This is the default setting.

CHAPTER 2 ADO.NET Connected Classes Lesson 1: Connecting to the Data Store Storing Encrypted Connection Strings in Web Applications (page 76) Securing Connection Strings ([http://msdn.microsoft.com/en-us/library/89211k9b\(v=vs.80\).aspx](http://msdn.microsoft.com/en-us/library/89211k9b(v=vs.80).aspx))

QUESTION 3

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application retrieves data from a Microsoft SQL Server 2008 database named AdventureWorks. The AdventureWorks.dbo.ProductDetails

table contains a column named ProductImages that uses a varbinary(max) data type.

You write the following code segment. (Line numbers are included for reference only.)

```
01 SqlDataReader reader =  
02 command.ExecuteReader(  
04 );  
05 while (reader.Read())  
06 {  
07     pubID = reader.GetString(0);  
08     stream = new FileStream(  
09 ...  
10 );  
11     writer = new BinaryWriter(stream);  
12     startIndex = 0;  
13     retval = reader.GetBytes(1, startIndex, outByte, 0, bufferSize);  
14     while (retval == bufferSize)  
15 {  
16 ...  
17 }  
18     writer.Write(outByte, 0, (int)retval - 1);
```



```
19 writer.Flush();  
20 writer.Close();  
21 stream.Close();  
22 }
```

You need to ensure that the code supports streaming data from the ProductImages column.

Which code segment should you insert at line 03?

- A. CommandBehavior.Default
- B. CommandBehavior.KeyInfo
- C. CommandBehavior.SingleResult
- D. CommandBehavior.SequentialAccess

Correct Answer: D

Default

The query may return multiple result sets. Execution of the query may affect the database state. Default sets no CommandBehavior flags, so calling ExecuteReader(CommandBehavior.Default) is functionally equivalent to calling

ExecuteReader(). KeyInfo The query returns column and primary key information. When KeyInfo is used for command execution, the provider will append extra columns to the result set for existing primary key and timestamp columns.

SingleResult The query returns a single result set.

SequentialAccess Provides a way for the DataReader to handle rows that contain columns with large binary values. Rather than loading the entire row, SequentialAccess enables the DataReader to load data as a stream. You can then use

the GetBytes or GetChars method to specify a byte location to start the read operation, and a limited buffer size for the data being returned.

CommandBehavior Enumeration

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

QUESTION 4

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Microsoft ASP.NET application.

You want to connect the application to a Microsoft SQL Server Express 2008 database named MyDatabase. The primary database file is named MyDatabase.mdf and it is stored in the App_Data folder.

You need to define the connection string.

Which connection string should you add to the Web.config file?

- A. Data Source=localhost; Initial Catalog=MyDataBase; Integrated Security=SSPI; User Instance=True



B. Data Source=.\SQLEXPRESS; Initial Catalog=MyDataBase; Integrated Security=True; User Instance=True

C. Data Source=.\SQLEXPRESS; AttachDbFilename=|DataDirectory|\MyDatabase.mdf; Integrated Security=True; User Instance=True

D. Data Source=SQLEXPRESS; AttachDbFilename=|DataDirectory|\App_Data\MyDatabase.mdf; Integrated Security=SSPI; User Instance=True

Correct Answer: C

CHAPTER 2 ADO.NET Connected Classes Lesson 1: Connecting to the Data Store Attaching to a Local SQL Database File with SQL Express (page 73)

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 and contains a LINQ to SQL data model. The data model contains a function named createCustomer that calls a stored procedure. The stored procedure is also named createCustomer.

The createCustomer function has the following signature.

Sub New(customerID As Guid, customerName As [String], address1 As [String]) End Sub

The application contains the following the following code segment. (Line numbers are included for reference only.)

01 Dim context As New CustomDataContext()

02 Dim userID As Guid = Guid.NewGuid()

03 Dim address1 As [String] = "1 Main Street"

04 Dim name As [String] = "Marc"

You need to use the createCustomer stored procedure to add a customer to the database.

Which code segment should you insert at line 05?

A. context.createCustomer(userID, name , address1)

B. context.ExecuteCommand("createCustomer", userID, name , address1)

C. Dim customer As New Customer()context.ExecuteCommand("createCustomer", customer)

D. Dim customer As New Customer()context.ExecuteQuery(GetType(Customer), "createCustomer", customer)

Correct Answer: A

CHAPTER 4 LINQ to SQL Lesson 3: Submitting Changes to the Database Using Stored Procedures (page 285)



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