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 uses the ADO NET Entity Framework to model entities The application allows users to make changes while disconnected from the data store Changes are submitted to the data store by using the Submit changes method of the Data Context object You receive an exception when you call me Submit changes method to submit entities that a user has changed in offline mode You need to ensure that entities changed in offline mode can be successfully updated m the data store.

What should you do?

A. Set the Object Tracking Enabled property of Data Context to true.

B. Set the Deferred Loading Enabled property of Data Context to true.

C. Call the Save Changes method of DataContext with a value of false

D. Call the Submit Changes method of Data Context with a value of System Data LinqConflictMode ContinueOnCornflict

Correct Answer: A

ObjectTrackingEnabled Instructs the framework to track the original value and object identity for this DataContext. ObjectTrackingEnabled Property (http://msdn.microsoft.com/en-us/library/system.data.linq.datacontext.objecttrackingenabled.aspx)

QUESTION 2

You use Microsoft .NET Framework 4 to develop an application that uses LINQ to SQL. You create a data model named AdvWorksDataContext, and you add the Product table to the data model. The Product table contains a decimal column named ListPrice and a string column named Color.

You need to update the ListPrice column where the product color is Black or Red. Which code segment should you use?

A. Dim colorList() As String = New String() {"Black", "Red"}Dim dc As AdvWorksDataContext = New AdvWorksDataContextDim prod = From p In dc.ProductsWhere colorList.Contains(p.Color)Select pFor Each product In prodproduct.ListPrice = product.StandardCost

* 1.5Nextdc.SubmitChanges()

B. Dim dc As AdvWorksDataContext =New AdvWorksDataContext("and ")Dim prod = From p In dc.ProductsSelect pDim list = prod.ToList()For Each product As Product In listIf (product.Color = "Black,Red") Thenproduct.ListPrice = product.StandardCost * 1.5End IfNextdc.SubmitChanges()

C. Dim dc As AdvWorksDataContext =New AdvWorksDataContext("and ")Dim prod = From p In dc.ProductsWhere p.Color = "Black,Red"Select pFor Each product In prodproduct.ListPrice = product.StandardCost * 1.5Nextdc.SubmitChanges ()

D. Dim dc As AdvWorksDataContext =New AdvWorksDataContext("and ")Dim prod = From p In dc.ProductsSelect pDim list = prod.ToList()For Each product As Product In listIf (product.Color = "Black") AndAlso(product.Color = "Red") Thenproduct.ListPrice = product.StandardCost * 1.5End IfNextdc.SubmitChanges()

Correct Answer: A

QUESTION 3

Refer to the following lines in the case study: PA40 in \Model\Part.cs, PR16 in \Model\Product.cs, and CT14 in \Model\Component.cs. The application must create XML files that detail the part structure for any product. The XML files must use

the following format:

You need to update the application to support the creation of an XElement object having a structure that will serialize to the format shown above. What should you do? (Each correct answer presents part of the solution. Choose two.)

A. Insert the following code segment at line PR16 in \Model\Product.cs:return new XElement("product, new XAttribute("name", this.Name),new XElement ("description", this.Description),new XElement("productType", this.ProductType));

B. Insert the following code segment at line CT14 in \Model\Component.cs:return new XElement("component, new XElement("name", this.Name),new XElement ("description", this.Description),new XElement("partType", this.PartType));

C. Insert the following code segment at line PR16 in \Model\Product.cs:return new XElement("product, new XElement("name", this.Name),new XElement ("description", this.Description),new XElement("productType", this.ProductType));

D. Insert the following code segment at line PR16 in \Model\Product.cs:return new XElement("product, new XAttribute("name", this.Name),new XAttribute ("description", this.Description),new XAttribute("productType", this.ProductType));

E. Insert the following code segment at line CT14 in \Model\Component.cs:return new XElement("component, new XAttribute("name", this.Name),new XElement ("description", this.Description),new XElement("partType", this.PartType));

F. Insert the following code segment at line CT14 in \Model\Component.cs:return new XElement("component, new XAttribute("name", this.Name),new XAttribute ("description", this.Description),new XAttribute("partType", this.PartType));

Correct Answer: DF

QUESTION 4

You use Microsoft .NET Framework 4 to develop an application that connects to a Microsoft SQL Server 2008 database. You need to prevent dirty or phantom reads.

Which IsolationLevel should you use?

A. Snapshot

B. Serializable

C. ReadUncommited

D. ReadCommitted

Correct Answer: A

Unspecified A different isolation level than the one specified is being used, but the level cannot be determined. When using OdbcTransaction, if you do not set IsolationLevel or you set IsolationLevel to Unspecified, the transaction executes

according to the isolation level that is determined by the driver that is being used.

Chaos The pending changes from more highly isolated transactions cannot be overwritten. ReadUncommitted A dirty read is possible, meaning that no shared locks are issued and no exclusive locks are honored.

ReadCommitted Shared locks are held while the data is being read to avoid dirty reads, but the data can be changed before the end of the transaction, resulting in non-repeatable reads or phantom data. RepeatableRead Locks are placed on

all data that is used in a query, preventing other users from updating the data. Prevents non-repeatable reads but phantom rows are still possible. Serializable A range lock is placed on the DataSet, preventing other users from updating or

inserting rows into the dataset until the transaction is complete. Snapshot Reduces blocking by storing a version of data that one application can read while another is modifying the same data.

Indicates that from one transaction you cannot see changes made in other transactions, even if you requery.

IsolationLevel Enumeration

(http://msdn.microsoft.com/en-us/library/system.data.isolationlevel.aspx) Isolation Levels in Database Engine (http://msdn.microsoft.com/en-us/library/ms189122.aspx)

SET TRANSACTION ISOLATION LEVEL (Transact-SQL)

(http://msdn.microsoft.com/ru-ru/library/ms173763.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 The application stores encrypted credit card numbers in the database.

You need to ensure that credit card numbers can be extracted from the database.

Which cryptograpny provider should you use?

A. DSACryptoServiceProvider

B. AESCryptoServiceProwier

C. MD5CryptoServiceProvider

D. SHA1 CryptoServceProvider

Correct Answer: B

AESCryptoServiceProvider Performs symmetric encryption and decryption using the Cryptographic Application Programming Interfaces (CAPI) implementation of the Advanced Encryption Standard (AES) algorithm. DSACryptoServiceProvider Defines a wrapper object to access the cryptographic service provider (CSP) implementation of the DSA algorithm. This class cannot be inherited. MD5CryptoServiceProvider Computes the MD5 hash value for the input data using the implementation provided by the cryptographic service provider (CSP). This class cannot be inherited. SHA1CryptoServiceProvider Computes the SHA1 hash value for the input data using the implementation provided by the cryptographic service provider (CSP). This class cannot be inherited.

DSACryptoServiceProvider (http://msdn.microsoft.com/en-us/library/system.security.cryptography.dsacryptoserviceprovider.aspx) AESCryptoServiceProvider (http://msdn.microsoft.com/en-us/library/system.security.cryptography.aescryptoserviceprovider.aspx) MD5CryptoServiceProvider (http://msdn.microsoft.com/enus/library/system.security.cryptography.md5cryptoserviceprovider.aspx) SHA1CryptoServiceProvider Class (http://msdn.microsoft.com/enus/library/system.security.cryptography.sha1cryptoserviceprovider.aspx)

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