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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 includes a Customer entity along with a CustomerKey property of the Guid type as shown in the following exhibit.

You discover that when the application adds a new instance of a Customer, calling the SaveChanges method results in the following error message:

"Server generated keys are only supported for identity columns."

You need to ensure that the application can add new Customer entities.

What should you do?

A. Add a handler for the ObjectContext.SavingChanges event. In the event handler, set the CustomerKey value.

B. Add a handler for the ObjectContext.ObjectMaterialized event. In the event handler, set the CustomerKey value.

C. Call the ObjectContext.Attach method before saving a Customer entity.

D. Call the ObjectContext.CreateEntityKey method before saving a Customer entity.

Correct Answer: A

SavingChanges() Event Occurs when changes are saved to the data source. ObjectMaterialized() Event Occurs when a new entity object is created from data in the data source as part of a query or load operation.

Attach() Method Attaches an object or object graph to the object context when the object has an entity key. CreateEntityKey() Creates the entity key for a specific object, or returns the entity key if it already exists.

ObjectContext Class

(http://msdn.microsoft.com/en-us/library/system.data.objects.objectcontext.aspx)

QUESTION 2

You use Microsoft .NET Framework 4 to develop an application. You use the XmlReader class to load XML from a location that you do not control.

You need to ensure that loading the XML will not load external resources that are referenced in the XML.

Which code segment should you use?

A. XmlReaderSettings settings = new XmlReaderSettings();settings.ValidationType = ValidationType.None;XmlReader reader = XmlReader.Create("data.xml", settings);

B. XmlReaderSettings settings = new XmlReaderSettings(); settings.CheckCharacters = true; XmlReader reader = XmlReader.Create("data.xml", settings);

C. XmlReaderSettings settings = new XmlReaderSettings(); settings.XmlResolver = null; XmlReader reader = XmlReader.Create("data.xml", settings);

D. XmlReaderSettings settings = new XmlReaderSettings(); settings.ConformanceLevel = ConformanceLevel.Auto; XmlReader reader = XmlReader.Create ("data.xml", settings);

Correct Answer: C

CheckCharacters Gets or sets a value indicating whether to do character checking. ConformanceLevel Gets or sets the level of conformance which the XmlReader will comply. ValidationType Gets or sets a value indicating whether the XmlReader will perform validation or type assignment when reading. XmlResolver Sets the XmlResolver used to access external documents. XmlReaderSettings Class (http://msdn.microsoft.com/en-us/library/system.xml.xmlreadersettings.aspx) http://stackoverflow.com/questions/215854/prevent-dtd-download-when-parsing-xml http://msdn.microsoft.com/en-us/library/x1h1125x.aspx

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 entities. The application allows users to make changes to entities while

disconnected from the central data store.

You need to ensure that when the user connects to the central data store and retrieves new data, the application meets the following requirements:

Changes made to the local data store in disconnected mode are preserved. Entities that have already been loaded into the local data store, but have not been modified by the user, are updated with the latest data.

What should you do?

A. Call the query\\'s Execute method by using the MergeOptions.AppendOnly option.

B. Call the query\\'s Execute method by using the MergeOptions.OverwriteChanges option.

C. Call the Refresh method of ObjectContext by using the RefreshMode.ClientWins method.

D. Call the Refresh method of ObjectContext by using the RefreshMode.StoreWins option.

Correct Answer: C

QUESTION 4

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application

connects to several SQL Server databases.

You create a function that modifies customer records that are stored in multiple databases. All updates for a given record are performed in a single transaction. You need to ensure that all transactions can be recovered.

What should you do?

A. Call the RecoveryComplete method of the TransactionManager class.

B. Call the Reenlist method of the TransactionManager class.

C. Call the EnlistDurable method of the Transaction class.

D. Call the EnlistVolatile method of the Transaction class.

Correct Answer: C

Enlisting Resources as Participants in a Transaction (http://msdn.microsoft.com/en-us/library/ms172153.aspx) Implementing a Resource Manager (http://msdn.microsoft.com/en-us/library/ms229975.aspx) Committing a Transaction in Single-Phase and Multi-Phase (http://msdn.microsoft.com/ en-us/library/ ckawh9ct.aspx) Resource managers with a durable enlistment must be able to perform recovery if they experience a failure. Implementing a Resource Manager (http://msdn.microsoft.com/en-us/library/ms229975.aspx) TransactionManager.Reenlist() Reenlists a durable participant in a transaction. A resource manager facilitates resolution of durable enlistments in a transaction by reenlisting the transaction participant after resource failure. Transaction.EnlistVolatile() Enlists a volatile resource manager to participate in a transaction. Volatile resource managers cannot recovery from failure to complete a transaction in which they were participating. For more information on volatile and durable resources, as well as how to enlist a resource, see Implementing A Resource Manager. Transaction.EnlistDurable() Enlists a durable resource manager to participate in a transaction. TransactionManager.RecoveryComplete() Notifies the transaction manager that a resource manager recovering from failure has finished reenlisting in all unresolved transactions. All durable resource managers should do recovery when they first start up by calling the Reenlist method for each outstanding transaction. Only when all of the reenlistments are done should the resource manager call RecoveryComplete. TransactionManager.Reenlist() Method (http://msdn.microsoft.com/en-us/library/system.transactions.transactionmanager.reenlist.aspx) Transaction.EnlistVolatile() Method (http://msdn.microsoft.com/en-us/library/system.transactions.transaction.enlistvolatile.aspx) Transaction.EnlistDurable() (http://msdn.microsoft.com/en-us/library/system.transactions.transaction.enlistdurable.aspx) TransactionManager.RecoveryComplete() Method (http://msdn.microsoft.com/enus/library/system.transactions.transactionmanager.recoverycomplete.aspx)

QUESTION 5

You are developing code that creates database connection objects. You plan to create connections by using the DbProvideFactory class. You need to ensure that the factory creates a connection to Microsoft SQL Server. What should you do? (To answer, drag the appropriate elements to the correct locations. Each element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

Elements	Answer Area
"ODBC Provider";	string providerName = [Element]
"System.Data.OleDb";	[Element] factory = ...viderFactories.GetFactory(providerName);
"System.Data.SqlClient";	[Element] conn = factory.CreateConnection();
"SQL Server Provider";	conn.ConnectionString = "Data Source...SQL1;Initial Catalog=Northwind;Integrated Security=true";
DbConnectionStringBuilder	
DbProviderFactory	
IDbConnection	
OdbcFactory	
OleDbConnection	
OleDbType	
SqlClientFactory	

Correct Answer:

Elements	Answer Area
"ODBC Provider";	string providerName = [IDbConnection]
"System.Data.OleDb";	[DbProviderFactory] factory = ...viderFactories.GetFactory(providerName);
	["System.Data.SqlClient";] conn = factory.CreateConnection();
"SQL Server Provider";	conn.ConnectionString = "Data Source...SQL1;Initial Catalog=Northwind;Integrated Security=true";
DbConnectionStringBuilder	
OdbcFactory	
OleDbConnection	
OleDbType	
SqlClientFactory	

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