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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.

You are creating the data layer of the application.

You write the following code segment. (Line numbers are included for reference only.) 01 public static SqlDataReader GetDataReader(string sql) {

02 SqlDataReader dr - null;

03 return dr;

05 }

You need to ensure that the following requirements are met:

The SqlDataReader returned by the GetDataReader method can be used to retrieve rows from the database. SQL connections opened within the GetDataReader method will close when the SqlDataReader is closed.

Which code segment should you insert at line 03?

A. SqlConnection cnn = new SqlConnectlon(strCnn); SqlCommand cmd = new SqlCottmandfsql, cnn); cnn.Open() ; try {dr = cmd.ExecuteReader();cnn.Close(); {catch {throw; }

B. SqlConnection cnn = new SqlConnection(scrCnn) ; SqlCommand cmd = new SqlCommandfsql, cnn); cnn.Open () ;try {dr = cmd.ExecuceReader (CommandBehavior.CloseConnection); { catch {cnn.Close();throw; }

C. using (SqlConnection cnn = new SqlConnection(strCnn)) {try {SqlCommand cmd = new SqlCommand(sql, cnn);cnn.Open();dr = cmd.ExecuteReader();) catch {throw; }}

D. SqlConnection cnn = new SqlConnection(strCnn); SqlCommand cmd = new SqlCommand(sql, cnn); cnn.Open() ;try {dr = cmd.ExecuteReader(); } finally {cnn.Close() ; }

Correct Answer: B

CommandBehavior.CloseConnection When the command is executed, the associated Connection object is closed when the associated DataReader object is closed.

CommandBehavior Enumeration

(http://msdn.microsoft.com/en-us/library/system.data.commandbehavior.aspx) SqlCommand.ExecuteReader Method (CommandBehavior) (http://msdn.microsoft.com/en-us/library/y6wy5a0f.aspx)

QUESTION 2

You use Microsoft Visual Studio 2010 and Microsoft ADO.NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database.

You use the ADO.NET LINQ to SQL model to retrieve data from the database. You use stored procedures to return multiple result sets.

You need to ensure that the result sets are returned as strongly typed values.

What should you do?

A. Apply the FunctionAttribute and ResultTypeAttribute to the stored procedure function. Use the GetResult method to obtain an enumerator of the correct type.

B. Apply the FunctionAttribute and ParameterAttribute to the stored procedure function and directly access the strongly typed object from the results collection.

C. Apply the ResultTypeAttribute to the stored procedure function and directly access the strongly typed object from the results collection.

D. Apply the ParameterAttribute to the stored procedure function. Use the GetResult method to obtain an enumerator of the correct type.

Correct Answer: A

You must use the IMultipleResults.GetResult Method pattern to obtain an enumerator of the correct type, based on your knowledge of the stored procedure. FunctionAttribute Associates a method with a stored procedure or user-

defined function in the database.

IMultipleResults.GetResult Method

(http://msdn.microsoft.com/en-us/library/bb534218.aspx)

QUESTION 3

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create a Microsoft ASP.NET application.

The application connects to a Microsoft SQL Server database. The application is hosted on a Web server along with other applications. You need to secure the transmission of data between the application and the database. You need to achieve this goal without affecting other applications. What should you do?

A. EnCrypt the connection string

B. Use encryption to store sensitive data in the database.

C. Use Secure Sockets Layer (SSL) to establish connections to the database

D. Use Internet Protocol Security (IPSec) to secure the communication channel.

Correct Answer: C

SSL is an established standard for ensuring secure HTTP transactions. SSL provides a mechanism to perform up to 128-bit encryption on all transactions between the client and server.

It enables the client to verify that the server belongs to a trusted entity through the use of server certificates. It also enables the server to confirm the identity of the client with client certificates. Each of these issues-- encryption, server identity,

and client identity--are negotiated in the SSL handshake that occurs when a client first requests a resource from a Secure Hypertext Transfer Protocol (HTTPS) server. Essentially, the client and server each present a list of required and

preferred settings. If a common set of requirements can be agreed upon and met, an SSL connection is established.

Internet Protocol Security (IPsec) is a set of security protocols used to transfer IP packets confidentially across the Internet.

IPsec is mandatory for all IPv6 implementations and optional for IPv4. An IPsec policy is a set of rules that determine which type of IP traffic needs to be secured using IPsec and how to secure that traffic.

Only one IPsec policy is active on a computer at one time.

QUESTION 4

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application updates several Microsoft SQL Server databases within a single transaction.

You need to ensure that after a resource failure, you can manage unresolved transactions. What should you do?

A. Call the EnlistVolatile method of the Transaction class.

B. Call the Reenlist method of the TransactionManager class.

C. Call the EnlistDurable method of the Transaction class.

D. Call the RecoveryComplete method of the TransactionManager class.

Correct Answer: B

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) 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.

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 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. The application includes two ObjectContext instances named context1 and context2. You need to persist the changes in both object contexts within a single transaction. Which code segment should you use?

A. using (TransactionScope scope = new TransactionScope()) {context1.SaveChanges();context2.SaveChanges();}

B. using (TransactionScope scope = new TransactionScope())
{context1.SaveChanges();context2.SaveChanges();scope.Complete();}

C. using (TransactionScope scope = new TransactionScope()){using (TransactionScope scope1 = newTransactionScope (TransactionScopeOption.RequiresNew)) {context1.SaveChanges();scope1.Complete();}using (TransactionScope scope2 = newTransactionScope (TransactionScopeOption.RequiresNew)) {context2.SaveChanges();scope2.Complete();}scope.Complete();}

D. using (TransactionScope scope = new TransactionScope()){using (TransactionScope scope = newTransactionScope(TransactionScopeOption.RequiresNew)) {context1.SaveChanges();}using (TransactionScope scope = newTransactionScope(TransactionScopeOption.RequiresNew)) {context2.SaveChanges();}}

Correct Answer: B

TransactionScope.Complete Indicates that all operations within the scope are completed successfully. TransactionScope Class (http://msdn.microsoft.com/en-us/library/system.transactions.transactionscope.aspx)

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