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CertifyMe 70-561

Exam A

QUESTION 1
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. The Contoso.com network contains a Microsoft SQL Server 2005 server named DB01. Your application retrieve records from a database named Trades that resides on DB01. The application connects to Trades by using an instance of the SqlConnection class with the following connection string.

"Data Source=DB01;UID='mhamm';PWD='password';"

When the application calls the Open method of the SqlConnection object, it displays the following: "Cannot open user default database. Login failed. Login failed for user 'mhamm'".
You need to make sure that you can connect to Trades when the user account for the connection is mhamm.

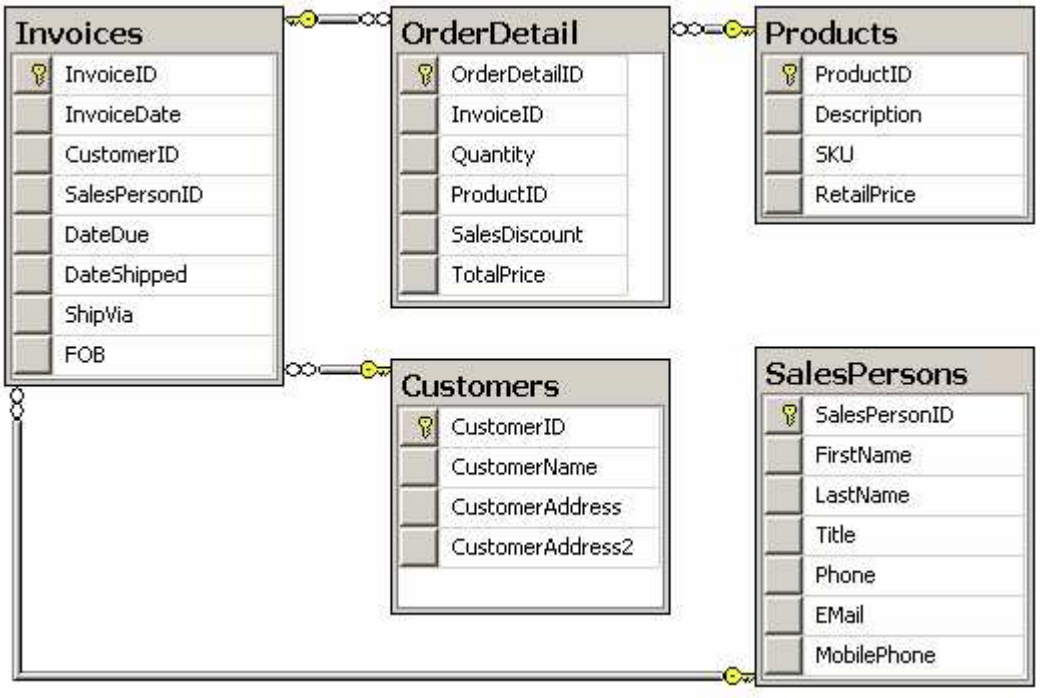
What should you do?

A. Change the connection string as follows:
   Data Source=DB01;Initial Catalog=Trades;UID=mhamm; PWD=password;"
B. Create a login for Mia Hamm on DB01.
C. Create a database user object in Trades and map the object to the SQL Server 2005 login of Mia Hamm.
D. Change the connection string as follows:
   "Server=DB01;Database=Trades;UID=mhamm;PWD=password;"

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The Microsoft SQL Server 2005 database contains the tables as seen in the following exhibit:



You add a DataColumn class named InvoiceTotal to the Invoices table. You want to make sure that OrderTotal column stores the sum of the values in the TotalPrice column of the OrderDetail table.

What should you do?

A. Use the following expression string to set the Expression property of the InvoiceTotal column: "Sum(Relationship.TotalPrice)"
B. Use the following expression string to set the Expression property of the InvoiceTotal column: "Sum(Invoices_OrderDetail.TotalPrice)"
C. Use the following expression string to set the Expression property of the InvoiceTotal column: "Sum(OrderDetail.TotalPrice)"
D. Use the following expression string to set the Expression property of the InvoiceTotal column: "Sum(Child(Invoices_OrderDetail).TotalPrice)"

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have written the following code to generate a storage schema definition for a stored procedure from the database.

```
<Function Name="GetSuppliersPerRegion" Aggregate="false" BuiltIn="false" NiladicFunction="false"
IsComposable="false"
            ParameterTypeSemantics="AllowImplicitConversion" Schema="dbo">
   <Parameter Name="region" Type="char" Mode="In" />
</Function>
```

You application uses two namespaces named ContosoModel.Store and ContosoModel. The ContosoModel.Store has the storage schema and the ContosoModel has the conceptual schema that has an

entity named Supplier. You want to create a function named GetSuppliersInRegion that returns a list of Supplier entity instances.

What should you do? (Each correct answer presents part of the solution. Choose TWO.)

A. Create the following code segment in the conceptual schema:
```
<FunctionImport EntitySet="Supplier" Name="GetSuppliersInRegion" ReturnType="Collection
(ContosoModel.Supplier)">
   <Parameter Name="region" Mode="In" Type="String" />
</FunctionImport>
```
B. Create the following code segment in the mapping schema:
```
<FunctionImportMapping FunctionImportName="GetSuppliers"
FunctionName="Contoso.Model.Store.GetSuppliers">
   <ResultMapping>
      <EntityTypeMapping TypeName ="ContosoModel.Supplier" />
   </ResultMapping>
</FunctionImportMapping>
```
C. Create the following code segment in the conceptual schema:
```
<FunctionImport EntitySet="Supplier" Name="GetSuppliersInRegion"
ReturnType="ContosoModel.Supplier">
   <Parameter Name="region" Mode="In" Type="String" />
</FunctionImport>
```
D. Create the following code segment in the mapping schema:
```
<FunctionImportMapping FunctionImportName="GetSuppliers"
FunctionName="ContosoModel.Store.GetSuppliers">
   <ResultMapping>
      <EntityTypeMapping TypeName ="MultiSet" />
   </ResultMapping>
</FunctionImportMapping>
```

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application is used under a Least-Privilege User Account (LUA) of the operating system. You want to configure the SQL Server 2005 connection string in the app.config file to use SQL Server Express user instances.

What should you do?

A. Use the following code segment:
```
Data Source=\\SQLExpress;Integrated Security=true;User
Instance=true;AttachDBFilename=InstanceDB.mdf;Initial Catalog=InstanceDB;
```
B. Use the following code segment:
```
Data Source=\\SQLExpress;Integrated
Security=true;AttachDBFilename=|DataDirectory|\InstanceDB.mdf;Initial Catalog=InstanceDB;
```
C. Use the following code segment:
```
Data Source=\\SQLExpress;Integrated Security=true;User Instance=true;AttachDBFilename=|
DataDirectory|\InstanceDB.mdf;Initial Catalog=InstanceDB;
```
D. Use the following code segment:
```
Data Source=\\SQLExpress;Integrated Security=false;User Instance=true;AttachDBFilename=|
DataDirectory|\InstanceDB.mdf;Initial Catalog=InstanceDB;
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. Your application contains the following code.

```
string queryString = "Select * from dbo.Users";
SqlCommand command = new SqlCommand(queryString, (SqlConnection)connection));
```

You want to get the value that is contained in the first column of the first row of the result set returned by the query.

What should you do?

A. Add the following code segment:
```
var value = command.ExecuteReader(CommandBehavior.SingleRow);
string requiredValue = value[1].ToString();
```
B. Add the following code segment:
```
var value = command.ExecuteReader(CommandBehavior.SingleRow);
string requiredValue = value[0].ToString();
```
C. Add the following code segment:
```
var value = command.ExecuteNonQuery();
string requiredValue = value.ToString();
```
D. Add the following code segment:
```
var value = command.ExecuteScalar();
string requiredValue = value.ToString();
```

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. Your application contains the following code.

```
01 DataTable dt = new DataTable();
02 dt.Columns.Add("number");
03 dt.Columns.Add("string");
04 dt.Rows.Add(1, "3");
05 dt.Rows.Add(2, "2");
06 dt.Rows.Add(3, "1");
07 var result = from p in dt.AsEnumerable()
08
09 foreach (var number in result) {
10     Console.Write(number.ToString());
11 }
```

You need to display the string "321". What should you do?

A. Add the following code segment at line 08:
orderby p["number"] select p["string"];
B. Add the following code segment at line 08:
orderby p["string"] descending select p["number"];
C. Add the following code segment at line 08:
orderby p["number"] descending select p["string"];
D. Add the following code segment at line 08:
orderby p["string"] ascending select p["string"];

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application fills a DataSet object named cust with customer records. Your application contains the following code. (Line numbers are for reference only.)

```
01 System.IO.StreamWriter sw =
02 new System.IO.StreamWriter("Customers.xml");
04 sw.Close();
```

You want to write the content of the cust object to the Customers.xml file as XML data along with inline XML schema. What should you do?

A. Add the following code segment at line 03:
cust.WriteXml(sw);
B. Add the following code segment at line 03:
sw.Write(cust.GetXmlSchema());
C. Add the following code segment at line 03:
cust.WriteXml(sw, XmlWriteMode.WriteSchema);
D. Add the following code segment at line 03:
sw.Write(cust.GetXml());

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft

ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application uses an XML file that contains product data. Furthermore, a corresponding XSD file contains the schema of the XML file. You want the application to do the following: Loads the XML file in a typed DataSet and validates it against the schema provided in the XSD file.

What should you do?

A. Use the xsd.exe tool along with the /loadxml parameter to create a typed DataSet object that has the data from the XML file.
B. Load the XML file in an XmlDocument object and validate method to validate the XML file against the schema.
   Iterate through the XML nodes of the XmlDocument object to create a new typed DataRow for each node.
C. Use the xsd.exe tool along with the /dataset parameter to generate a typed DataSet object and use the DataSet.ReadXml method to load the typed DataSet object.
D. Add the XSD file to the schema collections of the XmlReader object and load the XML file in the XmlReader object.
   Iterate through the XML nodes of the XMLReader object to create a new typed DataRow for each node.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You then define the connection string of the application as follows:

"Server=Prod;Database=WingtipToys;Integrated Security=SSPI;Asynchronous Processing=true"

The following code segment is used on the application: (Line numbers are included for reference only.)

```
01 protected void UpdateData(SqlCommand cmd) {
02     cmd.Connection.Open();
03
04     lblResult.Text = "Updating ...";
05 }
```

You discover that the cmd object takes a long time to execute. You want to make sure that the application continues to execute while cmd is executing.

What should you do? (Each correct answer presents part of the solution. Choose TWO.)

A. Add the following code segment at line 03:
   cmd.BeginExecuteNonQuery(new AsyncCallback(UpdateComplete), cmd);
B. Add the following code segment:
   ```
   private void UpdateComplete (IAsyncResult ar)
   {
      int count = (int)ar.AsyncState;
      LogResults(count);
   }
   ```
C. Add the following code segment at line 03:
   SqlNotificationRequest notification = new SqlNotificationRequest("UpdateComplete", "", 10000);
   cmd.Notification = notification;
   cmd.ExecuteNonQuery();
D. Add the following code segment:

```
private void UpdateComplete(SqlNotificationRequest notice)
{
   int count = int.Parse(notice.UserData);
   LogResults(count);
}
```

E. Add the following code segment:
```
private void UpdateComplete (IAsyncResult ar)
{
   SqlCommand cmd = (SqlCommand)ar.AsyncState;
   int count = cmd.EndExecuteNonQuery(ar);
   LogResults(count);
}
```

F. Add the following code segment at line 03:
```
cmd.StatementCompleted +=new StatementCompletedEventHandler(UpdateComplete);
cmd.ExecuteNonQuery();
```

G. Add the following code segment:
```
private void UpdateComplete (object sender, StatementCompletedEventArgs e)
{
   int count = e.RecordCount;
   LogResults(count);
}
```

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 10
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You application has a DataTable named CustActions, which has the following structure as seen in the exhibit.

Column Names	Column Data Type
LatePaymentsCount	System.Int16
OverrideCode	System.String

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

```
01 DataColumn AccountSuspendedColumn = new DataColumn();
02 AccountSuspendedColumn.DataType = typeof(Boolean);
03 AccountSuspendedColumn.ColumnName = "AccountSuspended";
04 CustActions.Columns.Add(AccountSuspendedColumn);
```

You want to make sure that the values in the AccountSuspendedColumn column are set to True, with the following conditions:

1. The value contained in the LatePaymentsCount column is greater than 10.
2. The value contained in the OverrideCode column is equal to "EXEMPT".

What should you do?

A. Add the following code segment at line 04:
```
AccountSuspendedColumn.Expression = "(LatePaymentsCount > 10) AND OverrideCode = 'EXEMPT' ";
```

B. Add the following code segment at line 04:
```
AccountSuspendedColumn.Expression = "('@LatePaymentsCount' > 10) AND 'OverrideCode' = \'EXEMPT\'
```

";

C. Add the following code segment at line 04:
AccountSuspendedColumn.Expression = "(@LatePaymentsCount > 10) AND @OverrideCode = #EXEMPT# ";

D. Add the following code segment at line 04:
AccountSuspendedColumn.Expression = "('LatePaymentsCount' > 10) AND 'OverrideCode' = \'EXEMPT\' ";

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following code segment. (Line numbers are for reference only.)

```
01 public IDataReader GetCustomerReader()
02 {
03     SqlConnection con = new SqlConnection();
04     //Set up the connection
05     con.Open();
06     string sql = "Select * from Customers";
07     IDataReader rd = null;
08
09     con.Close();
10     return rd;
11 }
```

You need to make sure that a DataReader stream for the data in the Customers table can be returned from the GetCustomerReader method.

What should you do?

A. Use the following code segment in line 08:
SqlDataAdapter adp = new SqlDataAdapter(sql, con);
DataSet ds = new DataSet();
adp.FillSchema(ds, SchemaType.Source, "Customers");
rd = ds.Tables["Customers"].CreateDataReader();

B. Use the following code segment in line 08:
SqlDataAdapter adp = new SqlDataAdapter(sql, con);
DataSet ds = new DataSet();
adp.Fill(ds);
rd = ds.CreateDataReader();

C. Use the following code segment in line 08:
SqlCommand cmd = new SqlCommand(sql, con);
rd = cmd.ExecuteReader(CommandBehavior.CloseConnection);

D. Use the following code segment in line 08:
SqlCommand cmd = new SqlCommand(sql, con);
rd = cmd.ExecuteReader(CommandBehavior.SingleResult);

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. You have completed the following code segment. (Line numbers are for reference only.)

```
01 private void GetRecords(SqlDataAdapter da, DataTable table) {
02
03    try {
04       da.Fill(table);
05    }
06    catch (SqlException exp) {
08    }
09    finally {
10
11    }
12 }
13
```

You have set the da.SelectCommand.CommandText property to a stored procedure, which declares a variable named @msg. If the stored procedure has a bad shipping address, it will do the following:

1. sets @msg with the id of the record.
2. raises an error for the record.

The raised error can be seen in the following text: RaiseError(@msg, 10,
1). You want to retrieve all records, valid or not; and that a list item is added to the lstResults list box for each invalid record.

What should you do? (Each correct answer presents part of the solution. Choose TWO.)

A. Add the following code segment at line 02:
```
SqlNotificationRequest notices = new SqlNotificationRequest();
da.SelectCommand.Notification = notices;
```
B. Add the following code segment at line 02:
```
da.SelectCommand.Connection.InfoMessage += new SqlInfoMessageEventHandler
(Connection_InfoMessage);
```
C. Add the following code segment at line 07:
```
foreach (SqlError error in exp.Errors)
{
   lstResult.Items.Add(exp.Message);
}
```
D. Add the following code segment at line 10:
```
lstResult.Items.Add(notices.UserData);
```
E. Add the following code segment at line 10:
```
foreach (DataRow row in table.Rows)
{
   if (row.HasErrors)
   {
      lstResult.Items.Add(row.RowError);
   }
}
```
F. Add the following code segment at line 13:
```
private void Connection_InfoMessage(object sender, SqlInfoMessageEventArgs e)
{
   lstResult.Items.Add(e.Message);
}
```

Correct Answer: BF

Section: (none)
Explanation

Explanation/Reference:

QUESTION 13
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application.

You want to make sure that the application is operative to any type of database.

What should you do?

A. Set the database driver name in the connection string of the application, and then the connection object as follows:
DbConnection connection = new OdbcConnection(connectionString);
B. Create the connection object as follows:
DbProviderFactory factory = DbProviderFactories.GetFactory(databaseProviderName);
DbConnection connection = factory.CreateConnection();
C. Create the connection object as follows:
DbProviderFactory factory = DbProviderFactories.GetFactory("System.Data.Odbc");
DbConnection connection = factory.CreateConnection();
D. Set the database driver name in the connection string of the application, and then the connection object as follows:
DbConnection connection = new OleDbConnection(connectionString);

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You want to use Windows Authentication along with the Microsoft OLE DB provider. You now need to make sure that the OLE DB connection is as secure as possible.

What should you do?

A. Add the following parameter to the connection string:
Integrated Security=true;
PersistSecurityInfo=true;
B. Add the following parameter to the connection string:
Integrated Security=SSPI;
C. Add the following parameter to the connection string:
Integrated Security=SSPI;
PersistSecurityInfo=yes;
D. Add the following parameter to the connection string:
Integrated Security=true;

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application caches refer to tables by using a Local Database Cache class. You have completed the following code segment. (Line numbers are for reference only.)

```
01 public partial class LocalDataCacheProvider
02 {
03     private void InitializeConnection(string connectionString)
04     {
05         this.Connection = new System.Data.SqlClient.SqlConnection(connectionString);
06     }
07     private void InitializeNewAnchorCommand()
08     {
09
10     }
11 }
```

You want to make sure that the LocalDataCacheProvider class handles all database communication.

What should you do?

A. Use the following code segment in line 01:
   public class LocalDataCacheProvider : Microsoft.Synchronization.Data.ServerSyncProviderProxy
B. Use the following code segment in line 01:
   public partial class LocalDataCacheProvider :
   Microsoft.Synchronization.Data.Server.DbServerSyncProvider
C. Use the following code segment in line 01:
   public partial class LocalDataCacheProvider : Microsoft.Synchronization.Data.SyncAnchor
D. Use the following code segment in line 01:
   public partial class LocalDataCacheProvider : Microsoft.Synchronization.Data.Server.SyncAdapter

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You want to define a class named Order that can participate within a transaction.

What should you do?

A. Define the Order class to implement the System.Transaction.IEnlistmentNotification interface.
B. Define the Order class to inherit from the System.Transactions.SinglePhaseEnlistment class.
C. Define the Order class to implement the System.Transaction.ITransactionPromoter interface.
D. Define the Order class to inherit from the System.Transactions.Enlistment class.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application has two DataTable objects that reference the Customers and Orders tables in the database. Your application contains the following code. (Line numbers are for reference only.)

```
01 DataSet custOrderDS = new DataSet();
02 custOrderDS.EnforceConstraints = true;
03 ForeignKeyConstraint custOrderFK = new ForeignKeyConstraint("CustOrderFK",
04 custOrderDS.Tables["Customers"].Columns["CustomerID"],
05 custOrderDS.Tables["Orders"].Columns["CustomerID"]);
06
07 custOrderDS.Tables["Orders"].Constraints.Add(custOrderFK);
```

You want to make sure that an exception is thrown when you attempt to delete Customer records that have related Order records.

What should you do?

A. Add the following code segment at line 06:
   custOrderFK.DeleteRule = Rule.None;
B. Add the following code segment at line 06:
   custOrderFK.DeleteRule = Rule.SetDefault;
C. Add the following code segment at line 06:
   custOrderFK.DeleteRule = Rule.SetNull;
D. Add the following code segment at line 06:
   custOrderFK.DeleteRule = Rule.Cascade;

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following code segment in the exception handler of the application. (Line numbers are for reference only.)

```
01 private string ShowSQLErrors(SqlException ex){
02     StringBuilder sb = new StringBuilder();
03     foreach (SqlError err in ex.Errors) {
04         sb.Append("Message: ");
05         sb.Append(err.Number.ToString());
06         sb.Append(", Level: ");
07
08         sb.Append(", State: ");
09         sb.Append(err.State.ToString());
10         sb.Append(", Source: ");
11         sb.AppendLine(err.Source.ToString());
12         sb.AppendLine(err.Message.ToString());
13         sb.AppendLine();
14     }
15     return sb.ToString();
```

16 }

You need to make an insertion on line 07 so that the original severity level of the error is included in the error message for each SQL error that occurs.

What should you do?

A. Add the following code segment to line 07:
sb.Append(err.Procedure.ToString());
B. Add the following code segment to line 07:
sb.Append(err.Class.ToString());
C. Add the following code segment to line 07:
sb.Append(err.LineNumber.ToString());
D. Add the following code segment to line 07:
sb.Append(err.ToString());

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. The application of Contoso.com contains two entities named Customer and Order. Customer has a navigable property named Orders, which returns a collection of Order entity instances. Your application contains the following code.

ContosoEntities context = new ContosoEntities(); ObjectQuery<Customer> query;

You need to make sure that each time a Customer entity instance is queried the related Order entity instances are retrieved.

What should you do?

A. Add the following code segment:
query = context.CreateQuery<Customer>("Orders");
B. Add the following code segment:
query = context.Customer.Include("Orders");
C. Add the following code segment:
query = context.Customer;
query.Parameters.Add(new ObjectParameter("Orders",""));
D. Add the following code segment:
query = context.Customer;
query.Select("Orders");

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. Your application contains the following code. (Line numbers are for reference only.)

```
01 private void Update (SqlCommand cmdA, SqlCommand cmdB)
02 {
03     using (TransactionScope scope = new TransactionScope())
04     {
05
06     }
07 }
```

You want to run the SqlCommand objects named cmdA and cmdB within a single distributed transaction.

What should you do?

A. Add the following code segment at line 05:

```
SqlTransaction trans = null;
try
{
    cmdA.Connection.Open();
    using (trans = cmdA.Connection.BeginTransaction()) {
        cmdB.Connection.Open();
        cmdA.Transaction = trans;
        cmdB.Transaction = trans;
        cmdA.ExecuteNonQuery();
        cmdB.ExecuteNonQuery();
        trans.Commit();
    }
}
catch (Exception exp)
{
    trans.Rollback();
}
```

B. Add the following code segment at line 05:

```
try
{
    cmdA.Connection.Open();
    cmdB.Connection.Open();
    cmdA.ExecuteNonQuery();
    cmdB.ExecuteNonQuery();
    scope.Complete();
}
catch (Exception exp) {}
```

C. Add the following code segment at line 05:

```
SqlTransaction trans = null;
try {
    cmdA.Connection.Open();
    using (trans = cmdA.Connection.BeginTransaction()) {
        cmdB.Connection = trans.Connection;
        cmdB.Connection.Open();
        cmdA.ExecuteNonQuery();
        cmdB.ExecuteNonQuery();
        trans.Commit();
    }
}
catch (Exception exp)
{
    trans.Rollback();
}
```

D. Add the following code segment at line 05:

```
SqlTransaction trans = null;
```

```
try
{
   cmdA.Connection.Open();
   cmdB.Connection.Open();
   trans = cmdA.Connection.BeginTransaction();
   cmdA.Transaction = trans;
   cmdB.Transaction = trans;
   cmdA.ExecuteNonQuery();
   cmdB.ExecuteNonQuery();
   trans.Commit();
}
catch (Exception exp)
{
   trans.Rollback();
}
```

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following code segment. (Line numbers are for reference only.)

```
01 String myConnString = "User ID = <username>;
02 password = <strong password>;
03 Initial Catalog = pubs;
04 Data Source = myServer";
05 SqlConnection myConnection = new SqlConnection(myConnString);
06 SqlCommand myCommand = new SqlCommand();
07 DbDataReader myReader;
08 myCommand.CommandType = CommandType.Text;
09 myCommand.Connection = myConnection;
10 myCommand.CommandText = "Select * from Table1;
11 Select * from Table2;";
12 int RecordCount = 0;
13 try
14 {
15    myConnection.Open();
16
17 }
18 catch (Exception ex)
19 {
20 }
21 finally
22 {
23    myConnection.Close();
24 }
```

You need to compute the total number of records processed by the Select queries in the RecordCount variable.

What should you do?

A. Add the following code segment to line 16:
   myReader = myCommand.ExecuteReader();

```
RecordCount = myReader.RecordsAffected;
```

B. Add the following code segment to line 16:
```
while (myReader.Read())
{
   //Write logic to process data for the first result.
}
RecordCount = myReader.RecordsAffected;
```

C. Add the following code segment to line 16:
```
while (myReader.HasRows)
{
   while (myReader.Read())
   {
      //Write logic to process data for the second result.
      RecordCount = RecordCount + 1;
   }
   myReader.NextResult();
}
```

D. Add the following code segment to line 16:
```
while (myReader.HasRows)
{
   while (myReader.Read())
   {
      //Write logic to process data for the second result.
      RecordCount = RecordCount + 1;
      myReader.NextResult();
   }
}
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following code segment. (Line numbers are for reference only.)

```
DataTable tbl = new DataTable();
tbl.Columns.Add("Price", typeof(double));
//Other columns added
//Fill data
```

You need to retrieve the maximum value in the Price column of the tbl DataTable.

What should you do?

A. Add the following code segment:
```
double maxPrice = (double)tbl.Select("Max(Price)")[0]["Price"];
```

B. Add the following code segment:
```
tbl.DefaultView.RowFilter = "Max(Price)";
double maxPrice=(double) tbl.DefaultView[0]["Price"];
```

C. Add the following code segment:
```
double maxPrice = (double)tbl.Compute("Max(Price)", "");
```

D. Add the following code segment:
```
double maxPrice = (double)tbl.Rows.Find("Max(Price)")["Price"];
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. You have completed the following conceptual schema definition for the entity data model.

```
<EntityType Name="Employee">
   <Key>
      <PropertyRef Name="EmployeeID" />
   </Key>
   <Property Name="EmployeeID" Type="Int32" Nullable="false" />
</EntityType>
<EntityType Name="Income">
   <Property Name="TaxNo" Type="String" MaxLength="10" FixedLength="true" />
   <NavigationProperty Name="Employee" Relationship="Model.FK_Employee_Income" FromRole="Income"
ToRole="Employee" />
</EntityType>
```

You want to retrieve all the TaxNo property values for the Employee entity instance that has the EmployeeID property value as 1.

What should you do?

A. Use the following code:
   SELECT o.TaxNo FROM Entities.Income as o WHERE (Select REF(c) from Entities.Employee as c WHERE EmployeeID=1)
B. Use the following code:
   SELECT o.TaxNo FROM Entities.Income as o, ROW(o.Employee) as c WHERE c.EmployeeID=1
C. Use the following code:
   SELECT o.TaxNo FROM Entities.Income as o, Entities.Employee as c WHERE c.EmployeeID=1
D. Use the following code:
   SELECT o.TaxNo FROM Entities.Income as o, o.Employee as c WHERE c.EmployeeID=1

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. Your application contains the following code. The Customer and Invoice tables are found in the invoice records of customers that reside in the database. Your application contains the following code.

```
DataSet ds = new DataSet();
DataTable tblCust = ds.Tables.Add("Customer");
DataTable tblInv = ds.Tables.Add("Invoice");
DataColumn colPar = tblCust.Columns.Add("ID", typeof(int));
tblCust.Constraints.Add("PKey", colPar, true);
tblInv.Columns.Add("InvNo", typeof(string));
```

```
DataColumn colChild = tblInv.Columns.Add("CustomerID", typeof(int));
DataRow[] relatedRows;
//Retrieve data for Customer and Invoice
```

You need to retrieve the invoice details from the tblInv DataTable for customer records that have a value 1 in the ID column of the tblCust DataTable.

What should you do?

A. Add the following code segment:
```
DataRelation rel = new DataRelation("RelCust", colPar, colChild);
ds.Relations.Add(rel);
relatedRows = tblCust.Rows.Find(1).GetParentRows("RelCust");
```
B. Add the following code segment:
```
ForeignKeyConstraint con = new ForeignKeyConstraint("RelCust", colPar, colChild);
tblInv.Constraints.Add(con);
relatedRows = tblCust.Rows.Find(1).GetChildRows("RelCust");
```
C. Add the following code segment:
```
ForeignKeyConstraint con = new ForeignKeyConstraint("RelCust", colPar, colChild);
tblInv.Constraints.Add(con);
relatedRows = con.RelatedTable.Rows.Find(1).GetChildRows("RelCust");
```
D. Add the following code segment:
```
DataRelation rel = new DataRelation("RelCust", colPar, colChild);
ds.Relations.Add(rel);
relatedRows = tblCust.Rows.Find(1).GetChildRows("RelCust");
```

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The database has a table named Categories that has a primary key identity column named CategoryID. The application inserts new records with the following stored procedure.

```
CREATE PROCEDURE dbo.InsertCategory
@CategoryName nvarchar(15),
@Identity int OUT
AS
INSERT INTO Categories (CategoryName) VALUES(@CategoryName) SET @Identity = SCOPE_IDENTITY()
RETURN @@ROWCOUNT
```
Your application contains the following code.

```
SqlDataAdapter adapter = new SqlDataAdapter("SELECT CategoryID, CategoryName FROM
dbo.Categories",connection);
adapter.InsertCommand = new SqlCommand("dbo.InsertCategory", connection);
adapter.InsertCommand.CommandType = CommandType.StoredProcedure;
adapter.InsertCommand.Parameters.Add(new SqlParameter("@CategoryName", SqlDbType.NVarChar,
15,"CategoryName"));
```

You want to retrieve the identity value for the newly created record. What should you do?

A. Add the following code segment:
```
SqlParameter parameter = adapter.InsertCommand.Parameters.Add ("@CategoryID", SqlDbType.Int, 0);
parameter.Direction = ParameterDirection.Output;
```

B. Add the following code segment:
SqlParameter parameter = adapter.InsertCommand.Parameters.Add ("@Identity", SqlDbType.Int, 0);
parameter.Direction = ParameterDirection.Output;

C. Add the following code segment:
SqlParameter parameter = adapter.InsertCommand.Parameters.Add ("CategoryID", SqlDbType.Int, 0);
parameter.Direction = ParameterDirection.Output;

D. Add the following code segment:
SqlParameter parameter = adapter.InsertCommand.Parameters.Add ("@Identity", SqlDbType.Int, 0);
parameter.Direction = ParameterDirection.ReturnValue;

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. You have completed the following code segment. (Line numbers are for reference only.)

```
01 DataTable dtProducts = new DataTable();
02 dtProducts.Columns.Add("ProductID");
03 dtProducts.Columns.Add("ProductName");
04 dtProducts.Columns.Add("CategoryID");
05 dtProducts.Rows.Add(1, "ccie", 1);
06 dtProducts.Rows.Add(2, "ccnp", 2);
07 dtProducts.Rows.Add(3, "ccsp", 1);
08 dtProducts.Rows.Add(4, "ccna", 2);
09 DataTable dtCategories = new DataTable();
10 dtCategories.Columns.Add("CategoryID");
11 dtCategories.Columns.Add("CategoryName");
12 dtCategories.Rows.Add(1, "CISCO products");
13 dtCategories.Rows.Add(2, "a+");
14 var products = dtProducts.AsEnumerable();
15 var categories = dtCategories.AsEnumerable();
16
17 foreach (var element in result) {
18     Console.WriteLine(element);
19 }
```

Furthermore, when the DataTables are related, the dtProducts DataTable and the CategoryID column as the dtCategories DataTable have a matching value. You need to make an insertion on line 16 so that the product information and the product category of each product are shown.

What should you do?

A. Add the following code segment to line 16:
var result =categories.GroupJoin(products, p => p["CategoryID"], c => c["CategoryID"], (group, r) => new { Name = group["ProductName"], Category = group["CategoryName"] });

B. Add the following code segment to line 16:
var result =products.GroupJoin(categories, p => p["CategoryID"], c => c["CategoryID"], (group, r) => new { Name = group["ProductName"], Category = group["CategoryName"] });

C. Add the following code segment to line 16:
var result = products.Join(categories, p => p["CategoryID"], c => c["CategoryID"], (p, c) => new { Name = p ["ProductName"], Category = c["CategoryName"] });

D. Add the following code segment to line 16:

var result =products.Join(categories, c => c["CategoryID"], p => p["CategoryID"], (c, p) => new { Name = p ["ProductName"], Category = c["CategoryName"] });

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. Your application contains the following code.

```
string sql = "Select InvoiceNo, OrderAmount from Orders";
SqlDataAdapter adp = new SqlDataAdapter(sql, con);
DataTable tblOrders = new DataTable();
adp.Fill(tblOrders);
```

You want the following: If the value of the OrderAmount column is greater than 1500, then a discount of 6 percent is calculated. Furthermore, you need to create a DataColumn object named Discount that contains the discount value for each row in the tblOrders DataTable.

What should you do?

A. Add the following code segment:
```
DataColumn col = newDataColumn("Discount");
tblOrders.Columns.Add(col);
col.Expression=tblOrders.Compute("OrderAmount*6/100","OrderAmount>1500").ToString();
```
B. Add the following code segment:
```
DataColumn col = newDataColumn("Discount");
col.DefaultValue = "IIF(OrderAmount>1500,OrderAmount*6/100,0)";
tblOrders.Columns.Add(col);
```
C. Add the following code segment:
```
DataColumn col = newDataColumn("Discount");
tblOrders.Columns.Add(col);
tblOrders.Compute("Discount=OrderAmount*6/100","OrderAmount>1500");
```
D. Add the following code segment:
```
DataColumn col = new DataColumn("Discount");
col.Expression = "IIF(OrderAmount>1500,OrderAmount*6/100,0)"; tblOrders.Columns.Add(col);
```

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. The application uses the Microsoft OLE DB Provider as the data provider for Oracle. The application throws an error when you try to retrieve the Oracle BLOB data. You need to make sure that the Oracle BLOB data can be retrieved.

What should you do?

A. Disable the connection pooling provided by the data provider for Oracle.

B. Use the OracleClient Provider.
C. Set the Unicode attribute in the Oracle connection string to True.
D. Change the Oracle client cursors to use asynchronous fetches.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. Your application contains the following code. (Line numbers are for reference only.)

```
01 using (SqlConnection connection = new SqlConnection(connectionString)) {
02     SqlCommand cmd = new SqlCommand(queryString, connection);
03     connection.Open();
04
05     while (sdrdr.Read()){
06         //use the data in the reader
07     }
08 }
```

You need to make sure that the memory is used efficiently when retrieving BLOBs from the database.

What should you do?

A. Add the following code segment at line 04:
   SqlDataReader sdrdr = cmd.ExecuteReader();
B. Add the following code segment at line 04:
   SqlDataReader sdrdr = cmd.ExecuteReader(CommandBehavior.Default);
C. Add the following code segment at line 04:
   SqlDataReader sdrdr = cmd.ExecuteReader(CommandBehavior.SchemaOnly);
D. Add the following code segment at line 04:
   SqlDataReader sdrdr = cmd.ExecuteReader(CommandBehavior.SequentialAccess);

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database.

You need to separate the security-related exceptions from the other exceptions for database operations at run time.

What should you do?

A. Create the following code:

```
catch (System.Data.SqlClient.SqlException ex)
{
    for (int i = 0; i < ex.Errors.Count; i++)
```

```
    {
        if (ex.Errors[i].Class.ToString() == "14")
        {
            //Handle all database security related exceptions
        }
        else
        {
            //Handle other exceptions
        }
    }
}
```

B. Create the following code:

```
catch (System.Security.SecurityException ex)
{
    //Handle all database security related exceptions
}
```

C. Create the following code:

```
catch (System.Data.SqlClient.SqlException ex)
{
    for (int i = 0; i < ex.Errors.Count; i++)
    {
        if (ex.Errors[i].Message.Contains("Security"))
        {
            //Handle all database security related exceptions
        }
        else
        {
            //Handle other exceptions
        }
    }
}
```

D. Create the following code:

```
catch (System.Data.SqlClient.SqlException ex)
{
    for (int i = 0; i < ex.Errors.Count; i++)
    {
        if (ex.Errors[i].Number == 14)
        {
            //Handle all database security related exceptions
        }
        else
        {
            //Handle other exceptions
        }
    }
}
```

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database.

The application uses Microsoft OLE DB Provider as the data provider. You have changed the data provider to

Microsoft SqlClient. Lately now, the application throws errors while executing parameterized queries.

What should you do?

A. Change the positional parameters in the application code to named parameters.
B. Reorder the positional parameters in the application code.
C. Set the Unicode attribute in the connection string to True.
D. Change the parameter in the query from DBNull to Null.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application uses a SqlConnection object that is active for the lifetime of a user session. You want to make sure that the application handles all the exceptions that cannot be recovered.

What should you do?

A. Catch all the SqlException exceptions and examine the State property of each error and if it is 0, exit the application.
B. Catch all the SqlException exceptions and examine the Source property of each error and if the Source property value is not .Net SqlClient Data Provider, exit the application.
C. Catch all the SqlException exceptions and examine the Class property of each error and if the Class property value is greater than 16, exit the application.
D. Catch all the SqlException exceptions and examine the State property of each error and if is 0, exit the application

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have also completed the following DDL statements.

CREATE TABLE Employees(
EmpID INT IDENTITY(1,1) NOT NULL PRIMARY KEY,
FirstName VARCHAR(50) NOT NULL,
LastName VARCHAR(50) NOT NULL)
GO
CREATE TABLE Wages(
WageID INT IDENTITY(1,1) NOT NULL,
EmpID INT NOT NULL FOREIGN KEY REFERENCES Employees(EmpID), PayDate DateTime NOT NULL)

The application was designed without any DataRelation objects. The application was configured to throws a SqlException exception when a user wants to delete the data from theEmployees table during execution. You want to delete the data from theEmployees table.

What should you do?

A. Use a DataRow to delete the records in theEmployees table.
B. Update the DDL statement for the Employees table to use the ON DELETE CASCADE option.
C. Use a DataAdapter to delete the records in theEmployees table.
D. Update the DDL statement for the Wages table to use the ON DELETE CASCADE option.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application also has a SqlDataAdapter object named daOrder and the SelectCommand property of the daOrder object is set. Your application contains the following code. (Line numbers are for reference only.)

```
01 private void ModifyDataAdapter() {
02
03 }
```

You need to make sure that the daOrder object can also handle updates.

What should you do?

A. Use the following code segment at line 02:
```
SqlCommandBuilder cb = new SqlCommandBuilder(daOrder);
cb.SetAllValues = true;
```
B. Use the following code segment at line 02:
```
SqlCommandBuilder cb = new SqlCommandBuilder(daOrder);
daOrder.DeleteCommand = cb.GetDeleteCommand();
daOrder.InsertCommand = cb.GetInsertCommand();
daOrder.UpdateCommand = cb.GetUpdateCommand();
```
C. Use the following code segment at line 02:
```
SqlCommandBuilder cb = new SqlCommandBuilder(daOrder);
cb.RefreshSchema();
cb.GetDeleteCommand();
cb.GetInsertCommand();
cb.GetUpdateCommand();
```
D. Use the following code segment at line 02:
```
SqlCommandBuilder cb = new SqlCommandBuilder(daOrder);
cb.RefreshSchema();
```

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. The application contains a DataSet named Products which has two DataTables named Exams and Certification, and a DataRelation named CertificationExams.

The function of CertificationExams is to relate Exams with Certification. Furthermore, Contoso.com has a procedure named GetCertificationExams. This procedure is used to return the two result sets. The resultsets contains a list of the certifications and exams in each certification. You have the following code segment. (Line numbers are for reference only.)

```
01 Products dsProducts = new Products();
02 using (SqlDataAdapter da = new SqlDataAdapter()){
03     da.SelectCommand = " GetCertificationExams";
04
05     da.Fill(dsExams);
06 }
```

You need to make sure that the resultsets from the stored procedure are correctly loaded into the Exams and Retailer; You need to complete line 05.

What should you do?

A. Add the following code segment to line 04:
   da.TableMappings.Add("Table", "CertificationExams");
   da.TableMappings.Add("Table1", CertificationExams");
B. Add the following code segment to line 04:
   da.TableMappings.Add("Table1", "Certification");
   da.TableMappings.Add("Table2", "Exams");
C. Add the following code segment to line 04:
   da.TableMappings.Add("Table", "Certification");
   da.TableMappings.Add("Table1", "CertificationExams");
D. Add the following code segment to line 04:
   da.TableMappings.Add("Table", "Certification");
   da.TableMappings.Add("Table1", "Exams");

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. You have completed the following code segment. (Line numbers are for reference only.)

```
01 string connString = "server=localhost;database=Store;uid=user;pwd=pass;";
02 SqlConnection conn = new SqlConnection(connString);
03 SqlDependency sqlDep = new SqlDependency();
04 sqlDep.OnChange += new OnChangeEventHandler(sqlDep_OnChange);
05
06 cmd.ExecuteNonQuery();
07 cmd.Connection.Close();
```

Contoso.com is using a table named Products that resides in the Products database, to store the product details. You need to make sure that the application receives a notification if an order is inserted or updated in the Products.

What should you do?

A. Add the following code segment to line 05:
   SqlCommand cmd = newSqlCommand("SELECT * FROM dbo.Products", conn);
   sqlDep.AddCommandDependency(cmd);

cmd.Connection.Open();
SqlDependency.Start(connString);

B. Add the following code segment to line 05:
SqlCommand cmd = newSqlCommand("SELECT * FROM dbo.Products", conn);
sqlDep.AddCommandDependency(cmd);
SqlDependency.Start(connString);

C. Add the following code segment to line 05:
SqlCommand cmd = new SqlCommand("SELECT * FROM Products", conn);
sqlDep.AddCommandDependency(cmd);
SqlDependency.Start(connString);

D. Add the following code segment to line 05:
SqlCommand cmd = newSqlCommand("SELECT * FROM Products", conn);
sqlDep.AddCommandDependency(cmd);
SqlDependency.Start(connString);
cmd.Connection.Open();

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. You have written the following code segment in the application. (Line numbers are included for reference only.)

```
01 private List<string> GetEmployers() {
02     List<string> employers = new List<string>();
03     SqlCommand cmd = new SqlCommand();
04
05     XmlReader reader = cmd.ExecuteXmlReader();
06     while (reader.Read()) {
07
08     }
09     return employers;
10 }
```

The cmd object returns the following XML data structure:

```
<Users>
   <Name>
      <First>Mia</First>
      <Last>Hamm</Last>
   </Name>
   <Department>
      <Dept.Name>Marketing</Dept.Name>
      ...
   </Department>
   ...
</Users>
```

You want to populate the users list with each user entry in the XML data structure.

What should you do?

A. Add the following code segment at line 07:
if (reader.Name == "Dept.Name")
{

```
    reader.MoveToContent();
    string user = reader.Value;
    users.Add(user);
}
```

B. Add the following code segment at line 07:

```
if (reader.Name == "Dept.Name" && reader.HasAttributes)
{
    reader.MoveToFirstAttribute();
    string user = reader.Value;
    users.Add(user);
}
```

C. Add the following code segment at line 07:

```
if (reader.Name == "Dept.Name")
{
    string user = reader.ReadElementContentAsString();
    users.Add(user);
}
```

D. Add the following code segment at line 07:

```
if (reader.Name == "Dept.Name")
{
    reader.MoveToFirstAttribute();
    if (reader.HasValue)
    {
        string user = reader.Value;
        users.Add(user);
    }
}
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following code segment. (Line numbers are for reference only.)

```
01 SqlConnection sqlconn
02 ...
03 SqlDataAdapter ordAdp = new SqlDataAdapter(
04 "SELECT OrderID, CustomerID, OrderDate, Qty, UnitPrice,
05 Discount FROM Sales.OrderDetail", sqlconn);
06 DataSet order_ds = new DataSet();
07 DataTable order_dt = order_ds.Tables.Add("Orders");
08 ordAdpt.Fill(order_dt);
09 order_dt.Rows[0].BeginEdit();
10 // The code here will insert, update and delete rows
11 order_dt.Rows[0].EndEdit();
12
13 order_dt.AcceptChanges();
```

You want to validate that every row that has the Qty column value is set to zero before you commit any changes.

What should you do?

A. Use the following code segment in line 12:
```
DataRow[] newRows = order_dt.Select(null, null, DataViewRowState.ModifiedCurrent);
foreach (DataRow newrow in newRows)
{
   if(newrow.Field<int>("Qty",DataRowVersion.Original) == 0)
}
```
B. Use the following code segment in line 12:
```
DataRow[] newRows = order_dt.Select(null, null, DataViewRowState.CurrentRows);
foreach (DataRow newrow in newRows)
{
   if(newrow.Field<int>("Qty",DataRowVersion.Current) == 0)
}
```
C. Use the following code segment in line 12:
```
DataRow[] newRows = order_dt.Select(null, null, DataViewRowState.ModifiedCurrent);
foreach (DataRow newrow in newRows)
{
   if(newrow.Field<int>("Qty",DataRowVersion.Current) == 0)
}
```
D. Use the following code segment in line 12:
```
DataRow[] newRows = order_dt.Select(null, null, DataViewRowState.CurrentRows);
foreach (DataRow newrow in newRows)
{
   if(newrow.Field<int>("Qty",DataRowVersion.Original) == 0)
}
```

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The database has a table named Customers. The table is frequently updated by the employees at Contoso.com. Your application contains the following code. (Line numbers are for reference only.)

```
01 SqlDataAdapter adapter = new SqlDataAdapter("SELECT CustomerID, CompanyName," +
02 "LastUpdated" +
03 "FROM Customers ORDER BY CustomerID", connection);
04 adapter.UpdateCommand = new SqlCommand(
05 "UPDATE Customers Set CompanyName = @CompanyName" +
06 "WHERE CustomerID = @CustomerID AND LastUpdated = @LastUpdated", connection);
07 adapter.UpdateCommand.Parameters.Add("@CustomerID", SqlDbType.Int, 0, "CustomerID");
08 adapter.UpdateCommand.Parameters.Add("@CompanyName", SqlDbType.NVarChar, 30, " +
09 "CompanyName");
10 SqlParameter parameter = adapter.UpdateCommand.Parameters.Add(
11 "@LastUpdated", SqlDbType.Timestamp, 0, "LastUpdated");
12 parameter.SourceVersion = DataRowVersion.Original;
```

You only want the application to update records without optimistic concurrency violations. What should you do?

A. Add the following code segment at line 07:
```
adapter.RowUpdating += new SqlRowUpdatingEventHandler(OnRowUpdating);
```

Add the following event handler method:
```
static void OnRowUpdating(object sender, SqlRowUpdatingEventArgs args)
{
```

```
    if (args.Row.HasErrors)
    {
        args.Row.RowError = "Optimistic Concurrency Violation Encountered";
        args.Status = UpdateStatus.SkipCurrentRow;
    }
}
```

B. Add the following code segment at line 07:
adapter.RowUpdated += newSqlRowUpdatedEventHandler(OnRowUpdated);

Add the following event handler method:

```
protected static void OnRowUpdated(object sender, SqlRowUpdatedEventArgs args)
{
    if (args.RecordsAffected == 0)
    {
        args.Row.RowError = "Optimistic Concurrency Violation Encountered";
        args.Status = UpdateStatus.SkipCurrentRow;
    }
}
```

C. Add the following code segment at line 07:
adapter.RowUpdating += newSqlRowUpdatingEventHandler(OnRowUpdating);

Add the following event handler method:

```
static void OnRowUpdating(object sender, SqlRowUpdatingEventArgs args)
{
    if (args.Row.RowState == DataRowState.Modified)
    {
        args.Row.RowError = "Optimistic Concurrency Violation Encountered";
        args.Status = UpdateStatus.SkipCurrentRow;
    }
}
```

D. Add the following code segment at line 07:
adapter.RowUpdated += newSqlRowUpdatedEventHandler(OnRowUpdated);

Add the following event handler method:

```
protected static void OnRowUpdated(object sender, SqlRowUpdatedEventArgs args)
{
    if (args.RowCount == 0)
    {
        args.Row.RowError = "Optimistic Concurrency Violation Encountered";
        args.Status = UpdateStatus.SkipCurrentRow;
    }
}
```

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 40
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application has an untyped DataTable object named Users that has a DataColumn named Level. For future plan, you want to create a ColumnChanging event handler for the Users object.

You want to make sure that when the existing data is modified, any value in the Age DataColumn that is greater than 100 is set to DBNull.

What should you do?

A. Use the following code segment:
```
void ValidateChanges(object sender, DataColumnChangeEventArgs e)
{
    if (e.Column.ColumnName == "Level" && ProposedValue != DBNull.Value)
    {
        if ((int)e.ProposedValue > 100)
        {
            e.Row["Level"] = DBNull.Value;
        }
    }
}
```
B. Use the following code segment:
```
void ValidateChanges(object sender, DataColumnChangeEventArgs e)
{
    if (e.Column.ColumnName == "Level" && e.ProposedValue != DBNull.Value)
    {
        if ((int)e.ProposedValue > 100)
        {
            e.ProposedValue = DBNull.Value;
        }
    }
}
```
C. Use the following code segment:
```
void ValidateChanges(object sender, DataColumnChangeEventArgs e)
{
    if (e.Column.ColumnName == "Level" && ProposedValue != DBNull.Value)
    {
        if ((int)e.Row["Level"] > 100)
        {
            e.Row["Level"] = DBNull.Value;
        }
    }
}
```
D. Use the following code segment:
```
void ValidateChanges(object sender, DataColumnChangeEventArgs e)
{
    if (e.Column.ColumnName == "Level" && e.ProposedValue != DBNull.Value)
    {
        if ((int)e.Row["Level"] > 100)
        {
            e.ProposedValue = DBNull.Value;
        }
    }
}
```

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 41
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have also created a DataSet named Data that has two related tables named Customers and Orders. You have written the following code segment. (Line numbers are included for reference only.)

```
01 private void Page_Load(object sender, EventArgs e)
02 {
03     this.ordTblAdap.Fill(this.Data.Orders);
04     this.custTblAdap.Fill(this.Data.Customers);
05 }
06 private void custBindNavSaveItem_Click(object sender, EventArgs e)
07 {
08
09 }
```

Customers and Orders are regularly updated and you need to make sure that the application commits all the updates to the two tables before it saves the data to the database.

What should you do?

A. Add the following code segment at line 08:
```
this.Validate();
this.custBindSrc.EndEdit();
this.orderBindsrc.EndEdit();
this.tableAdapterManager.UpdateAll(this.Data);
```
B. Add the following code segment at line 08:
```
this.tableAdapterManager.UpdateOrder =
    demo.TblAdp.TableAdapterManager.UpdateOption.InsertUpdateDelete;
this.custBindSrc.EndEdit();
this.orderBindsrc.EndEdit();
```
C. Add the following code segment at line 08:
```
this.Validate();
this.tableAdapterManager.UpdateAll(this.Data);
this.custBindSrc.EndEdit();
this.orderBindsrc.EndEdit();
```
D. Add the following code segment at line 08:
```
this.tableAdapterManager.UpdateOrder =
    demo.TblAdp.TableAdapterManager.UpdateOption.UpdateInsertDelete;
this.custBindSrc.EndEdit();
this.orderBindsrc.EndEdit();
```

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 42
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following LINQ query for the application.

```
var qry = from o in ordersQuery
where (string)o["TrackCode"] == "TK09-L20B"
select new
{
   OrderID = o.Field<int>("OrderID"),
   OrderDate = o.Field<DateTime>("OrderDate")
};
```

The TrackCode field in the DataRow is nullable. You want to make sure that an exception does not occur if the TrackCode field has a null value.

What should you do?

A. Use the following code segment:
```
var qry = from o in ordersQuery where
(string)o["TrackCode"] == DbNull.Value && (string)o["TrackCode"] == "TK09-L20B"
select new
{
   OrderID = o.Field<int>("OrderID"),
   OrderDate = Field<DateTime>("OrderDate")
};
```
B. Use the following code segment:
```
var qry = from o in ordersQuery where
IsNull("TrackCode") && (string)o["TrackCode"] == "TK09-L20B"
select new
{
   OrderID = o.Field<int>("OrderID"),
   OrderDate = Field<DateTime>("OrderDate")
};
```
C. Use the following code segment:
```
var qry = from o in ordersQuery where
Field<string>("TrackCode") == "TK09-L20B"
select new
{
   OrderID = o.Field<int>("OrderID"),
   OrderDate = Field<DateTime>("OrderDate")
};
```
D. Use the following code segment:
```
var qry = from o in ordersQuery where
!o.IsNull("TrackCode") && (string)o["TrackCode"] == "TK09-L20B"
select new
{
   OrderID = o.Field<int>("OrderID"),
   OrderDate = Field<DateTime>("OrderDate")
};
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. The application of Contoso.com uses a database that has a Products table and an Inventory table. Furthermore, the application coordinates updates between the records in the Products table and Inventory table by loading a DataSet class named DataSet.
Your application contains the following code.

```
DataColumn parentColumn = DataSet.Tables["Products"].Columns["ProdID"];
DataColumn childColumn = DataSet.Tables["Inventory"].Columns["ProdID"];
```

You need to make sure that the ProdID value has the following characteristics after changing the Products table:

1. The ProdID value is unique.
2. The records in the Inventory table are updated with the new ProdID value.

What should you do?

A. Add the following code segment:
DataRelation rel = new DataRelation("ProdInv", parentColumn, childColumn);
DataSet.Relations.Add(rel);
DataSet.Relations["ProdInv"].ChildKeyConstraint.UpdateRule = Rule.SetNull;
B. Add the following code segment:
ForeignKeyConstraint prodInvFK = new ForeignKeyConstraint(parentColumn, childColumn);
prodInvFK.UpdateRule = Rule.SetDefault;
DataSet.Tables["Inventory"].Constraints.Add(prodInvFK);
C. Add the following code segment:
DataRelation rel = new DataRelation("ProdInv", parentColumn, childColumn);
DataSet.Relations.Add(rel);
D. Add the following code segment:
DataRelation rel = new DataRelation("ProdInv", childColumn, parentColumn);
DataSet.Relations.Add(rel);
ForeignKeyConstraint prodInvFK = DataSet.Relations["ProdInv"].ChildKeyConstraint;
prodInvFK.UpdateRule = Rule.SetDefault;

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The Microsoft SQL Server 2005 database contains a database named DB1. The DB1 database stores data on two SQL Server 2005 servers named DB01 and DB02.

You want to make sure that the application caches the data by configuring the SqlDependency object.

What should you do?

A. Add the following code segment:
SqlDependency.Start("SERVER=DB01;SERVER=DB02;DATABASE=DB1;");
B. Add the following code segment:
SqlDependency.Start("SERVER=DB01,DB02;DATABASE=DB1;");
C. Add the following code segment:
SqlConnection conn = new SqlConnection("SERVER=DB01;DATABASE=DB1;");
SqlDependency sqlDep1 = new SqlDependency(new SqlCommand("SELECT OrderID FROM DB01.DB1.dbo.ORDERS",conn));
SqlDependency sqlDep2 = new SqlDependency(new SqlCommand("SELECT OrderID FROM DB02.DB1.dbo.ORDERS",conn));
D. Add the following code segment:
SqlDependency.Start("SERVER=DB01;DATABASE=DB1;");
SqlDependency.Start("SERVER=DB02;DATABASE=DB1;");

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45

You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have also created the following code segment:

```
DataTable tbl = new DataTable();
DataColumn colId = tbl.Columns.Add("ID", typeof(int)); colId.AutoIncrement = true;
tbl.Constraints.Add("Pkey", colId, true);
DataColumn colProd = tbl.Columns.Add("Product", typeof(string));
colCtry.DefaultValue = "SKU";
tbl.Columns.Add("Name", typeof(string));
```

You want to create a new row in the tbl DataTable with the following characteristics:

1. The ID column is set to an auto-incremented value.
2. The Product column is set to the default value.
3. The Name column is set to the value "New Product".

What should you do?

A. Add the following code segment:
   tbl.Rows.Add(DBNull.Value, DBNull.Value, "New Product");
B. Add the following code segment:
   tbl.Rows.Add(null, null, "New Product");
C. Add the following code segment:
   tbl.Rows.Add(0, null, "New Product");
D. Add the following code segment:
   tbl.Rows.Add(null, DBNull.Value, "New Product");

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. You have completed the following code segment. (Line numbers are for reference only.)

```
01 private void Init()
02 {
03     SyncConflictResolver scr = new SyncConflictResolver();
04     scr.ClientUpdateServerUpdateAction = ResolveAction.FireEvent;
05     SqlCeClientSyncProvider csp = new SqlCeClientSyncProvider();
06
07 }
```

You need to make sure that the application handles synchronization conflicts when data is updated in the database of the application.

What should you do?

A. Add the following code segment at line 06:
   csp.ApplyChangeFailed += new EventHandler<ApplyChangeFailedEventArgs>(csp_ApplyChangeFailed);
B. Add the following code segment at line 06:
   csp.SyncProgress += new EventHandler<SyncProgressEventArgs>(csp_SyncProgress);
C. Add the following code segment at line 06:

csp.ApplyingChanges += new EventHandler<ApplyingChangesEventArgs>(csp_ApplyingChanges);

D. Add the following code segment at line 06:
csp.ChangesApplied += new EventHandler<ChangesAppliedEventArgs>(csp_ChangesApplied);

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. The application of Contoso.com uses a database that has two tables named Order and OrderDetails. Furthermore, a primary key to foreign key relationship exists between Order and OrderDetails. Your application contains the following code.

```
SyncTable tableOrders = new SyncTable("Orders");
SyncTable tableOrderDetails = new SyncTable("OrderDetails");
SyncGroup orderGroup = new SyncGroup("Changes");
```

You need to make sure that the updates are synchronized to both Order and OrderDetails and that the referential integrity is accounted for.

What should you do? (Each answer forms part of the solution. Choose TWO.)

A. Add the following code segment:
tableOrderDetails.TableName = orderGroup.GroupName;
B. Add the following code segment:
tableOrders.TableName = orderGroup.GroupName;
C. Add the following code segment:
tableOrderDetails.SyncGroup = orderGroup;
D. Add the following code segment:
tableOrders.SyncGroup = orderGroup;

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application connects to a table named Leads that contains a column named State, to synchronize data. You then complete the following code:

```
SqlConnection conn = new
SqlConnection("SERVER=myServer;DATABASE=CRMDb;");
SqlSyncAdapterBuilder build = newSqlSyncAdapterBuilder(conn);
```

You need to make sure that the application partitions the data horizontally.

What should you do?

A. Use the following code:
build.TombstoneDataColumns.Add("State");

B. Use the following code:
build.FilterClause = "STATE=@STATE";
build.FilterParameters.Add(new SqlParameter("@STATE", userState));

C. Use the following code:
build.CreationTrackingColumn = "State";

D. Use the following code:
build.TombstoneFilterClause = "STATE=@STATE";
build.TombstoneFilterParameters.Add(new SqlParameter("@STATE", userState));

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 49
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft Synchronization Services for ADO.NET to develop a Microsoft Windows application that will connect to the Microsoft SQL Server 2005 database. The application synchronizes the data in a table named Prod, as seen in the exhibit:

Name	Data Type
ProdID	uniqueidentifier
UnitPrice	money
Display	bit
LastUpdated	datetime

The table has the following characteristics.

1. There are no columns with a default value.
2. The columns are non-nullable.
3. The ProdID and UnitPrice columns are synchronized.

You want to make sure that on synchronization, any new row added to the client application is also added to the SQL Server 2005 database.

What should you do?

A. Use the following code segment:
SyncAdapter adp = new SyncAdapter("Prod");
SqlCommand cmd = new SqlCommand("UPDATE [Prod] SET (UnitPrice=@Price) WHERE ProdID=@ID");
adp.UpdateCommand = (IDbCommand)cmd;

B. Use the following code segment:
SyncAdapter adp = new SyncAdapter("Prod");
SqlCommand cmd = new SqlCommand("UPDATE [Prod] SET (UnitPrice=@Price, Display=1) WHERE ProdID=@ID");
adp.UpdateCommand = (IDbCommand)cmd;

C. Use the following code segment:

```
SyncAdapter adp = new SyncAdapter("Prod");
SqlCommand cmd = new SqlCommand("INSERT INTO [Prod] (ProdID, UnitPrice, Display, LastUpdated)
VALUES (@ID, @Price, 0, GetDate())");
adp.InsertCommand = (IDbCommand)cmd;
```

D. Use the following code segment:
```
SyncAdapter adp = new SyncAdapter("Prod");
SqlCommand cmd = new SqlCommand("INSERT INTO [Prod] (ProdID, UnitPrice) VALUES (@ID,
@Price)"); adp.InsertCommand = (IDbCommand)cmd;
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 (Compact Edition) database. The Contoso.com database has a table named Order and the Microsoft Windows Mobile-based devices synchronize data along with the database server. Your application contains the following code. (Line numbers are for reference only.)

```
01 public class ServerSyncProvider : DbServerSyncProvider
02 {
03     public ServerSyncProvider()
04     {
05         SyncAdapter orderSyncAdapter = new SyncAdapter("Order");
06         SqlCommand ManageRows = new SqlCommand();
07         ManageRows.CommandText = "DELETE FROM dbo.Order WHERE OrderId = @OrderId " +
08             "AND ((UpdateTS <= @sync_last_received_anchor OR " +
09             "UpdateId = @sync_client_id ) OR @sync_force_write=1) " +
10             "IF (@@rowcount > 0) UPDATE Sales. Order_Tombstone SET "+
11             "DeleteId = @sync_client_id WHERE OrderId = @OrderId";
12
13     }
14 }
```

You want the application to have the following characteristics:

1. Allows bidirectional incremental data changes to the Order table.
2. Generates the ClientUpdateServerDelete action as a conflict.

What should you do?

A. Add the following code segment at line 12:
```
orderSyncAdapter.DeleteCommand = ManageRows;
```
B. Add the following code segment at line 12:
```
orderSyncAdapter.SelectIncrementalDeletesCommand = ManageRows;
```
C. Add the following code segment at line 12:
```
orderSyncAdapter.SelectConflictDeletedRowsCommand = ManageRows;
```
D. Add the following code segment at line 12:
```
orderSyncAdapter.UpdateCommand = ManageRows;
```

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 51
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application caches data from the database server. You have completed the following code segment. (Line numbers are for reference only.)

```
01 public class MySyncProvider : DbServerSyncProvider{
02     public MySyncProvider (){
03         SqlConnection serverConn = new SqlConnection("SERVER = .; Database = pubs; uid = sa;");
05         this.Connection = serverConn;
06
07         this.BatchSize = 10;
08     }
09
10 }
```

You want to make sure that only 10 new records are downloaded whenever the application synchronizes.

What should you do?

A. Add the following code segment at line 06:
   this.SelectingChanges += new EventHandler<SelectingChangesEventArgs>
   (MySyncProvider_SelectingChanges);

   Add the following code segment at line 09:
   void MySyncProvider_SelectingChanges(object sender, SelectingChangesEventArgs e)
   {
      e.Context.MaxAnchor = new SyncAnchor();
   }
B. Add the following code segment at line 06:
   this.SelectNewAnchorCommand = new SqlCommand(sqlQuery, this.Connection);
C. Add the following code segment at line 06:
   this.Schema.SchemaDataSet.EnforceConstraints = true;
D. Add the following code segment at line 06:
   this.SelectClientIdCommand = new SqlCommand(sqlQuery, this.Connection);

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft Synchronization Services for ADO.NET to develop a Microsoft Windows Mobilebased application that will connect to the Microsoft SQL Server 2005 database. The Mobilebased application uses the SyncAdapter object. You have set the InsertCommand command of the SyncAdapter object to a T-SQL statement. You then complete the following T-SQL statement.

INSERT INTO dbo.DiscountType ([DiscountTypeID], [Name], [LastEditDate], [CreationDate]) VALUES (@DiscountTypeID, @Name, @LastEditDate, CreationDate)

A complaint came through that the data inserts are identified as conflicts when the SyncAdapter object executes the InsertCommand command. You need to make sure that the application can identify successful data inserts.

What should you do?

A. Add the following code segment:
   SET @sync_result = @@IDENTITY
B. Add the following code segment:
   SET @sync_result = @@ROWCOUNT
C. Add the following code segment:
   SET @sync_result = @@ERROR
D. Add the following code segment:
   SET @sync_result = @@TOTAL_WRITE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 53
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following code segment.

```
DataTable tblInvDet = new DataTable("InvoiceDetail");
DataColumn colInvNo = tblInvDet.Columns.Add("InvNo", typeof(string));
DataColumn colItemNo = tblInvDet.Columns.Add("ItemNo", typeof(int));
```

You want to make sure that the corresponding values in the InvNo DataColumn and the ItemNo DataColumn form a unique pair.

What should you do?

A. Use the following code segment:
   colInvNo.Unique = true;
   colItemNo.Unique = true;
B. Use the following code segment:
   UniqueConstraint con = new UniqueConstraint("UnqCol", new DataColumn[] { colInvNo, colItemNo }, false);
   tblInvDet.Constraints.Add(con);
C. Use the following code segment:
   UniqueConstraint con1 = new UniqueConstraint("UnqCol1", colInvNo, false);
   UniqueConstraint con2 = new UniqueConstraint("UnqCol2", colItemNo, false);
   tblInvDet.Constraints.AddRange(new UniqueConstraint[] { con1,con2});
D. Use the following code segment:
   UniqueConstraint con1 = new UniqueConstraint("UnqCol1", colInvNo, true);
   UniqueConstraint con2 = new UniqueConstraint("UnqCol2", colItemNo, true);
   tblInvDet.Constraints.Add(con1);tblInvDet.Constraints.Add(con2);

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 54
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application uses a strongly typed DataTable named Customers that stores information about customers. The

application has an import feature that returns a list of the customers which is stored in an untyped DataTable named NewCustomers. The column order and column types of NewCustomers are same as that of the Customers. You want to copy the information from NewCustomers to a typed DataTable named Cust.
What should you do?

A. Add the following code segment:
   Cust.Merge(NewCustomers);
B. Add the following code segment:
   NewCustomers.Merge(Cust);
C. Add the following code segment:
   NewCustomers.WriteXml("temp.xml");
   Cust.ReadXml("temp.xml");
D. Add the following code segment:
   foreach(DataRow row in NewCustomers.Rows)
   {
      Cust.Rows.Add(row);
   }

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 55
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application has a typed DataSet named DSOrders that has two DataTables as seen in the following sequence:

1. 1 Orders
2. 2 Customers

Your application contains the following code. (Line numbers are for reference only.)

```
DSOrders ds = new DSOrders();
IDataReader rd;
```

You want to expose the two DataTables as a DataReader stream and to make sure that the Customers DataTable is the first DataTable in the stream.

What should you do?

A. Add the following code segment:
   ds.Customers.Prefix = "0";
   ds.Orders.Prefix = "1";
   rd = ds.CreateDataReader();
B. Add the following code segment:
   rd =ds.CreateDataReader(ds.Customers, ds.Orders);
C. Add the following code segment:
   rd = ds.CreateDataReader(ds.Customers);
D. Add the following code segment:
   ds.DefaultViewManager.CreateDataView(ds.Customers);
   rd = ds.CreateDataReader();

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 56
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application has a DataSet object with a table as seen in the exhibit.

You want the table to have the following characteristics with the creation of another table:

1. DataSet can be extended by using the designer.
2. The application should display all product records.
3. Products records can be filtered by ProdID.

What should you do?

A. Add another TableAdapter object named ProductsTableAdapterByProdID. Configure it to retrieve records by ProdID.
B. Add another query to ProductsTableAdapter by using the ProdID field as a parameter. Then filter the records by using this parameter.
C. Modify the ProductsTableAdapter by using the GetData method that accepts ProdID as an optional parameter.
D. Modify the ProductsTableAdapter by using the Fill method that accepts ProdID as an optional parameter.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 57
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application uses a SqlDataAdapter object to populate the DataSet object. The DataSet object is used to update the Categories database table in the database. Your application contains the following code. (Line numbers are for reference only.)

```
01 SqlDataAdapter dataAdapter = new SqlDataAdapter(
02     "SELECT CategoryID, CategoryName FROM Categories", connection);
03 SqlCommandBuilder builder = new SqlCommandBuilder(dataAdpater);
04 DataSet ds = new DataSet();
05 dataAdpater.Fill(ds);
06 foreach (DataRow categoryRow in ds.Tables[0].Rows)
07 {
```

```
08     if (string.Compare(categoryRow["CategoryName"].ToString(),searchValue, true) == 0)
09     {
10
11     }
12 }
13 dataAdapter.Update(ds);
```

You want to remove all the records from the Categories database table that match the value of the searchValue variable. What should you do?

A. Add the following code segment at line 10:
   ds.Tables[0].Rows.RemoveAt(0);
B. Add the following code segment at line 10:
   ds.Tables[0].Rows[categoryRow.GetHashCode()].Delete();
C. Add the following code segment at line 10:
   ds.Tables[0].Rows.Remove(categoryRow);
D. Add the following code segment at line 10:
   categoryRow.Delete();

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 58
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application has a DataSet object named OrdersDS. OrdersDS has a table named Orders as seen in the exhibit.

The Orders table in the application is populated by the SqlDataAdapter object that is named daOrders. Your application contains the following code in the application. (Line numbers are for reference only.)

```
01 private void FillOrdersTable(int pageIndex) {
02 int pageSize = 5;
03
04 }
```

You need to fill the Orders table with the next set of 5 records for each increase in the pageIndex value.

What should you do?

A. Add the following code segment at line 03:
   int start = (pageIndex - 1) * pageSize;
   string sql = "SELECT OrderID, CustomerID, OrderDate FROM Sales.OrdersHeader";
   daOrders.SelectCommand.CommandText = sql;
   daOrders.Fill(OrdersDS, start, pageSize, "Orders");
B. Add the following code segment at line 03:
   string sql = string.Format("SELECT TOP {0} OrderID, CustomerID, OrderDate FROM Sales.OrdersHeader WHERE OrderID > {1}", pageSize, pageIndex);
   daOrders.SelectCommand.CommandText = sql;

daOrders.Fill(OrdersDS, "Orders");

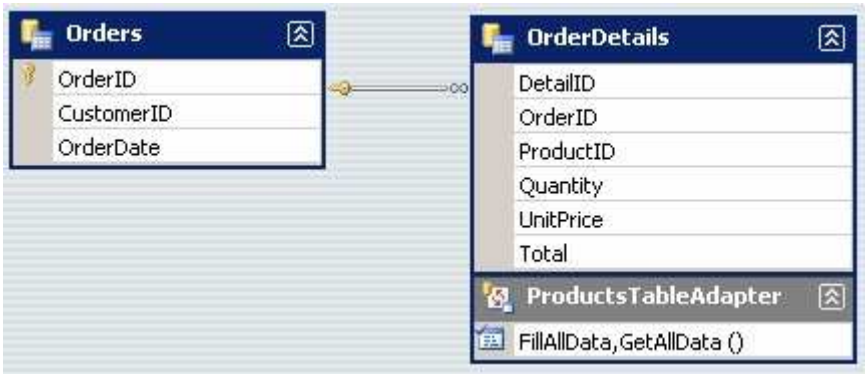
C. Add the following code segment at line 03:
int start = (pageIndex - 1) * pageSize;
string sql = string.Format("SELECT TOP {0} OrderID, CustomerID, OrderDate FROM Sales.OrderHeader WHERE OrderID > {1}", pageSize, start);
daOrders.SelectCommand.CommandText = sql;
daOrders.Fill(ordersDS, "Orders");

D. Add the following code segment at line 03:
string sql = "SELECT OrderID, CustomerID, OrderDate FROM Sales.OrderHeader";
daOrders.SelectCommand.CommandText = sql;
daOrders.Fill(OrdersDS, pageIndex, pageSize, "Orders");

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 59
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application has a DataSet object named SalesDS that has the Orders and OrderDetails tables as seen in the exhibit.



Your application contains the following code. (Line numbers are for reference only.)

```
01 private void GetOrders(SqlDataConnection conn) {
02 SqlCommand cmd = conn.CreateCommand();
03 cmd.CommandText = "Select * from [Orders];
04                           Select * from [OrderDetails]";
05 SqlDataAdapter da = new SqlDataAdapter(cmd);
06
07 }
```

You want to make sure that theOrders and the OrderDetails tables are populated.

What should you do?

A. Add the following code segment at line 06:
DataTableMapping mapOrders = new DataTableMapping();
mapOrders.DataSetTable = "Orders";
DataTableMapping mapOrderDetails = new DataTableMapping();
mapOrders.DataSetTable = "OrderDetails";
da.TableMappings.AddRange(new DataTableMapping[] { mapOrders, mapOrderDetails });

da.Fill(Orders);

B. Add the following code segment at line 06:
da.Fill(Orders);

C. Add the following code segment at line 06:
```
da.TableMappings.AddRange(new DataTableMapping[] {
        new DataTableMapping("Table", "Orders"),
        new DataTableMapping("Table1", "OrderDetails") });
da.Fill(Orders);
```

D. Add the following code segment at line 06:
```
da.Fill(SalesDS.Orders);
da.Fill(Orders.OrderDetails);
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 60
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. The application has two DataSets named CustomersDS with a DataTable named Customers and OrdersDS that has a Datatable named Orders. Your application contains the following code:

```
CustomersDS dsCust = new CustomersDS();
OrdersDS dsOrd = new OrdersDS();
...
IDataReader rd;
```

Your application requires that you to expose the Customers and Orders datatables by using a DataReader stream.

What should you do?

A. Add the following code:
```
rd = dsCust.CreateDataReader(dsOrd.Orders);
```

B. Add the following code:
```
DataTable dt = newDataTable();
dt.Load(dsOrd.Orders.CreateDataReader());
dt.Load(dsCust.Customers.CreateDataReader());
rd = dt.CreateDataReader();
```

C. Add the following code:
```
dsCust.Load(dsOrd.CreateDataReader(), LoadOption.Upsert, "Customers");
rd = dsCust.CreateDataReader();
```

D. Add the following code:
```
rd =dsCust.CreateDataReader(dsCust.Customers, dsOrd.Orders);
```

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 61
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The

application adds data to a table named Users that has a primary key column. Your application contains the following code. (Line numbers are for reference only.)

```
01 void ValidateData(DataTable dt)
02 {
03    dt.Columns.Add("IsValid", typeof(Boolean));
04    foreach (DataRow item in dt.Rows)
05    {
06       //Set IsValid to true or false
07    }
08 }
09 DataTable ChangeData()
10 {
11    SqlDataAdapter adp = new SqlDataAdapter();
12    //Setup SqlDataAdapter to get User data
13    DataTable dtOriginal = new DataTable();
14    adp.FillSchema(dtOriginal, SchemaType.Source); 15 adp.Fill(dtOriginal);
16    //Change User details
17    DataTable dtNew = dtOriginal.GetChanges();
18    ValidateData(dtNew);
19
20    return dtOriginal;
21 }
```

You need to make sure that the ChangeData method returns a DataTable that includes the value in the IsValid column for each row in Users.

What should you do?

A. Add the following code segment at line 19:
dtOriginal.Merge(dtNew, false, MissingSchemaAction.Add);
B. Add the following code segment at line 19:
dtOriginal.Merge(dtNew, true, MissingSchemaAction.Error);
C. Add the following code segment at line 19:
dtOriginal.Merge(dtNew, false, MissingSchemaAction.Ignore);
D. Add the following code segment at line 19:
dtOriginal.Merge(dtNew, true, MissingSchemaAction.AddWithKey);

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 62
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The Microsoft SQL Server 2005 database contains two tables named Certs and Exams. The application uses a DataSet object that contains two DataTable objects that reference the Certs and Exams tables. Your application contains the following code.

```
DataSet CertExamDS= new DataSet();
CertExamDS.EnforceConstraints = true;
DataRelation CertExamRel = new DataRelation("CertExamRel", CertExamDS.Tables["Certs"].Columns
["CertID"],
CertExamDS.Tables["Exam"].Columns["CertID"]);
CertExamDS.Relations.Add(CertExamRel);
```

The Certs table has 300 records that are related to records in the Exam table. You want the application to have the following character:

1. It throws an exception when you attempt to delete related records.
2. It updates the related records in the Exam table when you update records in the Certs table.

What should you do?

A. Use the following code segment:
   CertExamRel.ChildKeyConstraint.UpdateRule = Rule.None;
   CertExamRel.ChildKeyConstraint.DeleteRule = Rule.Cascade;
B. Use the following code segment:
   CertExamRel.ChildKeyConstraint.UpdateRule = Rule.Cascade;
   CertExamRel.ChildKeyConstraint.DeleteRule = Rule.Cascade;
C. Use the following code segment:
   CertExamRel.ChildKeyConstraint.DeleteRule = Rule.None;
D. Use the following code segment:
   CertExamRel.ChildKeyConstraint.UpdateRule = Rule.SetDefault;
   CertExamRel.ChildKeyConstraint.DeleteRule = Rule.Cascade;

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 63
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application uses a strongly typed DataTable class named Invoice to process order invoices. The application has a third-party components and the Invoice DataTable class. This cannot be recompiled. The application processes the order invoices. The method that is using is by passing the Invoice DataTable object to the third-party components.

You want to calculate the tax amount for each order invoice in the Invoice DataTable object.

What should you do?

A. Create a utility class named InvoiceTaxCalculator for which the constructor takes an Invoice DataTable object.
   Write a method to calculate the tax amount in the InvoiceTaxCalculator utility class and update the application to use the InvoiceTaxCalculator typed DataTable object as a replacement for the Invoice DataTable object to process order invoices.
B. Add a partial class named Invoice to the application and write a method to calculate the tax amount in the partial class.
   Use the original Invoice typed DataTable object to process order invoices.
C. Create a utility class named TaxableInvoice that inherits from the Invoice class.
   Write a method to calculate the tax amount in the TaxableInvoice utility class and update the application to use the TaxableInvoice typed DataTable object as a replacement for the Invoice DataTable object to process order invoices.
D. Change the generated source code for the Invoice typed DataTable object to contain a method that calculates the tax amount. Update the application to use the new Invoice typed DataTable object to process order invoices.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 64
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. You have completed the following code segment.

```
DataTable dt = new DataTable("Strings");
dt.Columns.Add("Strings");
dt.Rows.Add("A-G");
dt.Rows.Add("H-P");
dt.Rows.Add("Q-Z");
var c = from Strings in dt.AsEnumerable() select Strings[0]; int count = 0;
```

You need to make sure that the value of the count variable is 6.

What should you do?

A. Use the following code:
   `count =c.Select(str => ((string)str).Replace('-', '\n')).Count();`
B. Use the following code:
   `count =c.SelectMany(str => ((string)str).Replace('-','\n')).Count();`
C. Use the following code:
   `count = c.Select(str => ((string)str).Split('-')).Count();`
D. Use the following code:
   `count =c.SelectMany(str => ((string)str).Split('-')).Count();`

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 65
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following code segment.

```
DataTable dtUsers = new DataTable("Users");
DataColumn parentCol= dtUsers.Columns.Add("ID", typeof(int)); //Other columns added for dtUsers
DataTable dtWages = new DataTable("Wages");
DataColumn
childCol=dtWages.Columns.Add("UserID",typeof(int)); //Other columns added for dtWages
DataSet ds = new DataSet();
ds.Tables.Add(dtWages);
ds.Tables.Add(dtUsers);
```

The UserID column relates the Wages DataTable to the Users DataTable. You need to make sure that when a row is deleted in the Users DataTable, it should also delete the corresponding row in the Wages DataTable.

What should you do?

A. Use the following code segment:
   ```
   ForeignKeyConstraint fkCon = newForeignKeyConstraint(parentCol, childCol);
   fkCon.DeleteRule = Rule.SetNull;
   dtUsers.Constraints.Add(fkCon);
   ```

B. Use the following code segment:
ForeignKeyConstraint fkCon = new ForeignKeyConstraint(parentCol, childCol);
fkCon.DeleteRule = Rule.SetNull;
dtWages.Constraints.Add(fkCon);

C. Use the following code segment:
ForeignKeyConstraint fkCon = newForeignKeyConstraint(parentCol, childCol);
fkCon.DeleteRule = Rule.Cascade;
dtUsers.Constraints.Add(fkCon);

D. Use the following code segment:
ForeignKeyConstraint fkCon = newForeignKeyConstraint(parentCol, childCol);
fkCon.DeleteRule = Rule.Cascade;
dtWages.Constraints.Add(fkCon);

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 66
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. The application uses ADO.NET Entity Framework for persistence.

You have completed the following storage schema definition for an entity named Customer.

```
<EntityType Name="Customer">
  <Key>
    <PropertyRef Name="ID" />
  </Key>
  <Property Name="ID" Type="int" Nullable="false" StoreGeneratedPattern="Identity" />
  <Property Name="Street" Type="char" MaxLength="50" />
  <Property Name="City" Type="nvarchar" MaxLength="20" />
</EntityType>
```

You want to map the Street column and the City column as a separate type named Address in the conceptual schema.

What should you do? (Each answer forms part of the solution. Choose TWO.)

A. Create the following schema definition:
```
<ComplexType Name="Address">
  <Property Name="Street" Type="String" MaxLength="50" />
  <Property Name="City" Type="String" MaxLength="20" />
</ComplexType>
<EntityType Name="Customer">
  <Key>
    <PropertyRef Name="ID" />
  </Key>
  <Property Name="ID" Type="Int32" Nullable="false" />
  <Property Name="Address" Type="Contoso.Address" Nullable="false" />
</EntityType>
```

B. Create the following mapping schema definition:
```
<EntityTypeMapping TypeName="IsTypeOf(Contoso.Customer)">
  <MappingFragment StoreEntitySet="Customer">
    <ScalarProperty Name="ID" ColumnName="ID" />
    <ScalarProperty Name="Address.Street" ColumnName="Street" />
    <ScalarProperty Name="Address.City" ColumnName="City" />
  </MappingFragment>
```

```
</EntityTypeMapping>
```

C. Create the following mapping schema definition:

```
<EntityTypeMapping TypeName="IsTypeOf(Contoso.Customer)">
  <MappingFragment StoreEntitySet="Customer">
    <ScalarProperty Name="ID" ColumnName="ID" />
    <ComplexProperty Name="Address" TypeName="Contoso.Address">
      <ScalarProperty Name="Street" ColumnName="Street" />
      <ScalarProperty Name="City" ColumnName="City" />
    </ComplexProperty>
  </MappingFragment>
</EntityTypeMapping>
```

D. Create the following mapping schema definition:

```
<EntitySetMapping Name="Customer">
  <EntityTypeMapping TypeName="IsTypeOf(Contoso.Customer)">
    <MappingFragment StoreEntitySet="Customer">
      <ScalarProperty Name="ID" ColumnName="ID" />
    </MappingFragment>
    <MappingFragment StoreEntitySet="Address">
      <ScalarProperty Name="Street" ColumnName="Street" />
      <ScalarProperty Name="City" ColumnName="City" />
    </MappingFragment>
  </EntityTypeMapping>
</EntitySetMapping>
```

E. Create the following conceptual schema definition:

```
<EntityType Name="Address">
  <Key>
    <PropertyRef Name="ID"/>
  </Key>
  <Property Name="ID" Type="Int32" Nullable="false" />
  <Property Name="Street" Type="String" MaxLength="50" />
  <Property Name="City" Type="String" MaxLength="20" />
</EntityType>
<EntityType Name="Customer">
  <Key>
    <PropertyRef Name="ID" />
  </Key>
  <Property Name="ID" Type="Int32" Nullable="false" />
  <Property Name="Address" Type="Contoso.Address" Nullable="false" />
</EntityType>
```

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 67
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database named DB01 that resides on a server named DB01. You have also created a storage schema definition file named Contoso.ssdl, a conceptual schema definition file named Contoso.csdl and a mapping schema definition file named Contoso.msl.

You then modified the content of Contoso.ssdl and Contoso.csdl. You need to generate the .NET Framework entities from the altered schema definitions.

What should you do?

A. Use the following command:

Edmgen.exe /mode:FromSsdlGeneration /project:Contoso /inssdl:Contoso.ssdl /outcsdl:Contoso.csdl

B. Use the following command:
Edmgen.exe /mode:EntityClassGeneration /project:Contoso /incsdl:Contoso.csdl

C. Use the following command:
Edmgen.exe /mode:ViewGeneration /project:Contoso /inssdl:Contoso.ssdl /incsdl:Contoso.csdl / inmsl:Contoso.msl /outobjectlayer:Contoso

D. Use the following command:
Edmgen.exe /mode:FullGeneration /project:Contoso /provider:System.Data.SqlClient / connectionstring:"server=DB01;integrated security=true;database=ContosoDB"

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 68
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following DDL statement.

```
CREATE TABLE [dbo].[Orders](
   [C1] [int] IDENTITY(1,1) NOT NULL,
   [C2] [char](4) NULL,
   [C3] NUMERIC(1,1) NOT NULL,
   [C4] AS (C1*C3)
) ON [PRIMARY]
```

This application uses a method named update that uses the following code segment.

```
SqlDataAdapter da = new SqlDataAdapter("SELECT * FROM Orders", sc);
da.UpdateCommand = new SqlCommand("UPDATE Orders SET C2 = @C2, C3 = @C3, C4 = @C4 WHERE C1 = @C1", sc);
da.UpdateCommand.Parameters.Add("@C1", SqlDbType.Int, 4, "C1");

SqlParameter prm1 = new SqlParameter("@C2", SqlDbType.Char, 4);
prm1.SourceColumn = "C2";
da.UpdateCommand.Parameters.Add(prm1);

SqlParameter prm2 = new SqlParameter("@C3", SqlDbType.Decimal, 4);
prm2.SourceColumn = "C3";
da.UpdateCommand.Parameters.Add(prm2);

SqlParameter prm3 = new SqlParameter("@C4", SqlDbType.Char, 4);
prm3.SourceColumn = "C4";
da.UpdateCommand.Parameters.Add(prm3);
```

When you want to execute the method, a SqlException exception is thrown. The method must execute without problems.

What should you do?

A. Remove the column C4 and its associated parameters from the UPDATE statement.
B. Remove the column C3 and its associated parameters from the UPDATE statement.
C. Change the SqlDbType parameter to Decimal in column C4.
D. Change the SqlDbType parameter to Money in column C4.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 69
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The database at Contoso.com has a table named Customer. The database also has a secondary Microsoft Office Access database also has a table named Customer. Both of these tables have the same schema and data in the Access database is updated regularly. Your application contains the following code. (Line numbers are included for reference only.)

```
01 SqlConnection con = new SqlConnection();
02 //Setup con
03 string sql = "Select * from Customer";
04 SqlDataAdapter adp = new SqlDataAdapter(sql, con);
05 SqlCommandBuilder bld = new SqlCommandBuilder(adp);
06 DataTable tblCust = new DataTable();
07 adp.FillSchema(tblCust,SchemaType.Source);
08 adp.Fill(tblCust);
09 OleDbConnection conAc = new OleDbConnection();
10 OleDbCommand cmd = new OleDbCommand(sql, conAc);
11 //Setup conAc
12 conAc.Open();
13 IDataReader rd = cmd.ExecuteReader();
14
15 conAc.Close();
16 adp.Update(tblCust);
```

You want to combine the data from the Customer table of the Access database to the Customer table of the SQL Server 2005 database.

What should you do?

A. Add the following code segment at line 14:
   tblCust.Load(rd, LoadOption.OverwriteChanges);
B. Add the following code segment at line 14:
   tblCust.Load(rd, LoadOption.Upsert);
C. Add the following code segment at line 14:
   tblCust.Load(rd, LoadOption.PreserveChanges);
D. Add the following code segment at line 14:
   tblCust.Merge(rd.GetSchemaTable());

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 70
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. Your application contains the following code.

```
SqlConnection conn;
```

...
SqlDataAdapter adp = new SqlDataAdapter(
"SELECT CertID, CertName FROM Products.Certs", conn); SqlDataAdapter exAdp = new SqlDataAdapter(
"SELECT ExamID, CertID, ExamCode FROM Products.Exams", conn); DataSet certExams = new DataSet();
adp.Fill(certExams, "Certs");
exAdp.Fill(certExams, "Orders");

You want to make sure that the output of the certExams DataSet matches the XML schema. The XML schema has the following code fragment:

```
<CertExams>
  <Certs>
    <CertID>271</CertID>
    <CertName>System Administrator</CertName>
  </Certs>
  <Exams>
    <ExamID>3612</ExamID>
    <CertID>271</CertID>
    <ExamCode>70-210</ExamCode>
  </Exams>
  <Exams>
    <ExamID>3957</ExamID>
    <CertID>271</CertID>
    <ExamCode>70-215</ExamCode>
  </Exams>
</CertExams>
```

What should you do?

A. Add the following code segment:
DataRelation relation = certExams.Relations.Add("CertExams", certExams.Tables["Certs"].Columns ["CertID"],
certExams.Tables["Exams"].Columns["CertID"]);

B. Add the following code segment:
DataRelation relation = certExams.Relations.Add("CertExams", certExams.Tables["Exams"].Columns ["CertID"],
certExams.Tables["Certs"].Columns["CertID"]);relation.Nested = true;

C. Add the following code segment:
DataRelation relation = certExams.Relations.Add("CertExams", certExams.Tables["Exams"].Columns ["CertID"],
certExams.Tables["Certs"].Columns["CertID"]);

D. Add the following code segment:
DataRelation relation = certExams.Relations.Add("CertExams", certExams.Tables["Certs"].Columns ["CertID"],
certExams.Tables["Exams"].Columns["CertID"]);relation.Nested = true;

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 71
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have also created a conceptual schema definition for the entity data model which is as follows:

<EntityType Name="User">
<Key>

<PropertyRef Name="UserID" />
</Key>
<Property Name="UserID" Type="Int32" Nullable="false" /> </EntityType>
<EntityType Name="Wages">
<Property Name="TaxNo" Type="String" MaxLength="10" FixedLength="true" />
<NavigationProperty Name="User" Relationship="Model.FK_User_Wages" FromRole="Wages" ToRole="User" />
</EntityType>

You want to retrieve all the TaxNo property values for the User entity instance that has the UserID property value as 1.

What should you do?

A. Use the following command:
SELECT o.TaxNo FROM Entities.Wages as o,ROW(o.User) as c WHERE UserID=1
B. Use the following command:
SELECT o.TaxNo FROM Entities.Wages as o, o.User asc WHERE c.UserID=1
C. Use the following command:
SELECT o.TaxNo FROM Entities.Wages as o WHERE (Select REF(c) from Entities.User as c WHERE UserID=1)
D. Use the following command:
SELECT o.TaxNo FROM Entities.Wages as o,Entities.User as c WHERE UserID=1

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 72
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You application has the following objects:

1. A SqlDataReader object named reader
2. A SqlCommand object named cmdRecords
3. A SqlCommand object named cmdUpdate
4. A SqlConnection object named conn

The ConnectionString property of the SqlConnection object is as follows:

"Server=DB01;Database=Contoso.com;Integrated Security=SSPI"

To obtain the cmdRecords object, you should use the reader object. The conn object is shared by the cmdRecords and the cmdUpdate objects. You need to make sure that that for each record in the reader object, the application calls the ExecuteNonQuery method of the cmdUpdate object.

What should you do?

A. Change the connection string of conn to contain the following attribute. AsynchronousProcessing=true.
B. Call the InitializeLifeTimeService method of conn.
C. Change the connection string of conn to contain the following attribute. MultipleActiveResultSets=true.
D. Close the conn after it was called by the reader object, before calling the cmdUpdate.ExecuteNonQuery() method, reopen conn.

Correct Answer: C

Section: (none)
Explanation

Explanation/Reference:

QUESTION 73
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. Your application contains the following code.

```
string qry = "Select UserNo, UserName from dbo.USERS; select Name, Age from dbo.USER_DATA";
SqlCommand command = new SqlCommand(qry, connection); SqlDataReader reader =
command.ExecuteReader();
```

You want to make sure that the application reads all the rows returned by the code segment.

What should you do?

A. Add the following code:
```
while (reader.NextResult())
{
   Console.WriteLine(String.Format("{0}, {1}",reader[0], reader[1]));
}
reader.Read();
while (reader.NextResult())
{
   Console.WriteLine(String.Format("{0}, {1}",reader[0], reader[1]));
}
```
B. Add the following code:
```
while (reader.Read())
{
   Console.WriteLine(String.Format("{0}, {1}",reader[0], reader[1]));
   reader.NextResult();
}
```
C. Add the following code:
```
while (reader.NextResult())
{
   Console.WriteLine(String.Format("{0}, {1}",reader[0], reader[1]));
   reader.Read();
}
```
D. Add the following code:
```
while (reader.Read())
{
   Console.WriteLine(String.Format("{0}, {1}",reader[0], reader[1]));
}
reader.NextResult();
while (reader.Read())
{
   Console.WriteLine(String.Format("{0}, {1}",reader[0], reader[1]));
}
```

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 74
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application uses data from a Microsoft SQL Sever 2005 database table. The table contains a column that is define
type (UDT) containing a **Point** object.

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

```
01 private List<point> GetPoints(SqlCommand cmd)  {
02     List<Point>  List = new List<Point>() ;
03     cmd. Connection.Open() ;
04     SqlDataReader reader " cmd.ExecuteREader();
05
06     while (reader.Read()) {
07
08         list.Add(pt) ;
09     }
10     return list ;
11 }
```

You need to return a list of **Point** objects.

What should you do?

A. Insert the following line of code at line 07
   Point pt = (Point) reader[0] ;
B. Insert the following line of code at line 05
   BinaryFormatter formatter = new BinaryFormatter () ;

   Insert the following code segment at line 07.

   SqlBinary buffer = reader. GetSqlBinary (0) ;
   Point pt = (Point)formatter. Deserialize(buffer.Stream) ;
C. Insert the following line of code at line 05

   BinaryFormatter formatter = new BinaryFormatter () ;

   Insert the following code segment at line 07.

   SqlBinary buffer = reader. GetSqlBinary (0) ;
   MemoryStream stream = new MemoryStream(buffer.Value) ;
   Point pt = (Point)formatter. Deserialize (stream) ;
D. Insert the following line of code at line 05

   BinaryFormatter formatter = new BinaryFormatter () ;

   Insert the following code segment at line 07.

   Byte() buffer = new byte (32) ;
   Long byteCount = reader. GetByte(0, 0, buffer, 0, 32) ;
   MemoryStream stream = new MemoryStream(buffer)
   Point pt = (Point)formatter. Deserialize (stream) ;

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
In order to use the UDT on the client, it has to be available locally.
So, I have a UDT called Point, and I have retrieved a data reader which contains a field of the Point type. To work with the UDT I'd do something like this:

```
while(dr.Read()) {
   Point p = (Point)dr[1];
   //work with the UDT
}
```

reference:
http://www.dbnewsgroups.net/sqlprogramming/t17212-udt-whats-point.aspx

QUESTION 75
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application uses data from a Microsoft SQL Sever 2005 database table. A Web page of the application

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

```
01 private  void  LoadGrid()
02 {
03     using (SqlCommand command = new SqlCommand())
04     {
05         command. Connection = connection;
06         command. CommandText = “SELECT * FROM Customers”;
07         connection. Open () ;
08
09     }
10 }
```

You need to retrieve the data from the database table and bind the data to the **DataSource** property of the GridView1

Which code segment should you insert at line 08?

A.
```
SqlDataReader rdr = command. ExecuteReader() ;
Connection. Close() ;
GridView1.DataSource = rdr;
GridView1.DataBind() ;
```

B.
```
SqlDataReader rdr = command. ExecuteReader() ;
GridView1.DataSource = rdr.Read() ;
GridView1.DataBind() ;
Connection.Close();
```

C.
```
SqlDataReader rdr = command. ExecuteReader()
Object[] value = new Object[rdr. FiedCount];
GridView1.DataSource “ rdr.GetValues(values) ;
GridView1.DataBind() ;
Connection.Close();
```

D.
```
DataTable dt = new DataTable();
using (SqlDataReader reader = command.ExecuteReader())
{
    dt.Load(reader);
}
Connection.Close();
GridView1.DataSource = dt;
GridView1.DataBind() ;
```

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

```
private void LoadGrid()
{
            using (SqlCommand command = new SqlCommand())
            {
                command.Connection = connection;
                command.CommandText = "SELECT * FROM Customers";
                connection.Open();

                DataTable dt = new DataTable();
                using (SqlDataReader reader = command.ExecuteReader())
                {
                    dt.Load(reader);
                }
                connection.Close();
                dataGridView1.DataSource = dt;
                // dataGridView1.DataBind() ; // for web only, in windows form
dataGridView1 not have DataBind() method
            }
}
```

QUESTION 76
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. 2005 database

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

```
01 private void InsertCoordinates(DataTable dataTable, SqlDataAdapter da)  {
02    SqlCommand InsertCmd = new SqlCommand ();
03    InsCmd.Connection = da SelectCommand. Connection;
04    InsCmd. CommandText = “InsertCoordinates”;
05    da. InsertCommand = insertCmd;
06    SqlParameter prmCoord = new SqlParameter ();
07    prmCoord.ParameterName = “@coordinate”;
08    prmCoord.SourceColumm = “Coordinates”;
09
10    InsertCmd. Parameter.Add(prmCoord);
11    da.Update(dataTable);
12 }
```

You write the following definition.

```
CREATE PROC [dbo] . [InsertCoordinate]
Coordinate Point
AS
INSERT  dbo. RegionCoordinates(Coordinate)
VALUES (@coordinate)
```

The Coordinate columm in **dataTable** is a .NET Framework class type.
You need to ensure that the prmCoord parameter accepts

Which code segment should you insert at line 09?

A. prmCoord. SqlDbType = SqlDbType.Udt;

prmCoord.TypeName = “Point”;

B. prmCoord.SqlDbType = SqlDbType.Udt;
prmCoord.UdtTypeName = “Point”;

C. prmCoord. SqlDbType = SqlDbType.Variant;
prmCoord. TypeName = “Point”;

D. prmCoord. SqlDbType = SqlDbType. Variant;
prmCoord. TypeName = “Point”;

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
example working with UDT from C#

```
private static void AddSqlParameter(SqlCommand command,
   string udtName, Point paramValue)
{
   SqlParameter parameter = new SqlParameter(
      "@Point", SqlDbType.Udt);
   parameter.SqlDbType = SqlDbType.Udt;
   parameter.UdtTypeName = udtName;
   parameter.Value = paramValue;
   command.Parameters.Add(parameter);
}
```

reference:
http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqlparameter.udttypename.aspx

QUESTION 77
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. with Microsoft SQL Server 2005 database.
The application analyzes large amounts of transaction data that are stored in a different data

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

```
01 using (SqlConnection connection = new
       SqlConnection (soureConnectionString))
02 using (SqlConnection connection2 = new
       SqlConnection (destinatonConnectionString))
03 using (SqlCommand command = new SqlCommand())
04 {
05         connection.Open();
06         connection2.Open();
07         using (SqlDataReader reader = command. ExecuteReader())
08         {
09             using (SqlBulkCopy bulkcopy = new
                   SqlBulkCopy(connection2)
10             {
11
12             }
13         }
14 }
```

You need to copy transaction data to the database of application

Which code segment should you insert at line 11?

A. reader.Read()
bulkCopy.WriteToSever(reader);

B. bulkCopy.DestinationTableName = “Transaction”
bulkCopy.WriteToSever(reader);

C. bulkCopy.DestinationTableName = “Transaction”
bulkCopy.SqlRowsCopies = new
SqlRowsCopiedEventHandler(bulkCopy_SqlRowsCopied);

D. which (reader.Reader)
{
bulkCopy.WriteToSever(reader);
}

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

```
using System.Data.SqlClient;

class Program
{
   static void Main()
   {
      string connectionString = GetConnectionString();
      // Open a sourceConnection to the AdventureWorks database.
      using (SqlConnection sourceConnection =
               new SqlConnection(connectionString))
      {
         sourceConnection.Open();

         // Perform an initial count on the destination table.
         SqlCommand commandRowCount = new SqlCommand(
            "SELECT COUNT(*) FROM " +
            "dbo.BulkCopyDemoMatchingColumns;",
            sourceConnection);
         long countStart = System.Convert.ToInt32(
            commandRowCount.ExecuteScalar());
         Console.WriteLine("Starting row count = {0}", countStart);

         // Get data from the source table as a SqlDataReader.
         SqlCommand commandSourceData = new SqlCommand(
            "SELECT ProductID, Name, " +
            "ProductNumber " +
            "FROM Production.Product;", sourceConnection);
         SqlDataReader reader =
            commandSourceData.ExecuteReader();

         // Open the destination connection. In the real world you would
         // not use SqlBulkCopy to move data from one table to the other
         // in the same database. This is for demonstration purposes only.
         using (SqlConnection destinationConnection =
                  new SqlConnection(connectionString))
         {
            destinationConnection.Open();

            // Set up the bulk copy object.
            // Note that the column positions in the source
            // data reader match the column positions in
```

```
            // the destination table so there is no need to
            // map columns.
            using (SqlBulkCopy bulkCopy =
                       new SqlBulkCopy(destinationConnection))
            {
               bulkCopy.DestinationTableName =
                  "dbo.BulkCopyDemoMatchingColumns";

               try
               {
                  // Write from the source to the destination.
                  bulkCopy.WriteToServer(reader);
               }
               catch (Exception ex)
               {
                  Console.WriteLine(ex.Message);
               }
               finally
               {
                  // Close the SqlDataReader. The SqlBulkCopy
                  // object is automatically closed at the end
                  // of the using block.
                  reader.Close();
               }
            }

            // Perform a final count on the destination
            // table to see how many rows were added.
            long countEnd = System.Convert.ToInt32(
               commandRowCount.ExecuteScalar());
            Console.WriteLine("Ending row count = {0}", countEnd);
            Console.WriteLine("{0} rows were added.", countEnd - countStart);
            Console.WriteLine("Press Enter to finish.");
            Console.ReadLine();
         }
      }
   }

   private static string GetConnectionString()
      // To avoid storing the sourceConnection string in your code,
      // you can retrieve it from a configuration file.
   {
      return "Data Source=(local); " +
         " Integrated Security=true;" +
         "Initial Catalog=AdventureWorks;";
   }
}
```

QUESTION 78
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
The application reads the following contacts .xml file

```
<contacts>
    <contact contacted= “2”>
        <firstName>Done</firstName >
        <lastName>Hall</lastName >
    </contact>
    <contact contacted= “3”>
        <firstName>Simon</firstName >
        <lastName>Rapier</lastName >
```

```
    </contact>
    <contact contacted= “4”>
        <firstName>Shu</firstName >
        <lastName>Ito</lastName >
    </contact>
</contacts>
```

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

```
01 XDocument loaded = XDocument Load(@”C:\ contacts.xml”);
02
03 foreach (string name in q)
04 Console.WriteLine(“{0}”, name);
```

You need to ensure that the application outputs only the names **Simon Rapier** and **Shu Ito**

Which code segment should you insert at line 02?

A.
```
var q = from c in loaded.Descendants(“contact”).Skip(1)
select (string) c Element(“firstName”) + “ “ +
    (string) c Element(“lastName”);
```

B.
```
var q = from c in loaded.Descendants(“contact”).Skip(0)
select (string) c Element(“firstName”) + “ “ +
    (string) c Element(“lastName”);
```

C.
```
var q = from c in loaded.Descendants(“contact”)
where c. IsAfter(c. firstNode)
select (string) c Element(“firstName”) + “ “ +
    (string) c Element(“lastName”);
```

D.
```
var q = from c in loaded.Descendants(“contact”)
where (int) c.Attribute(“contacted”) <
select (string) c Element(“firstName”) + “ “ +
    (string) c Element(“lastName”);
```

Correct Answer: A
Section: (none)
Explanation

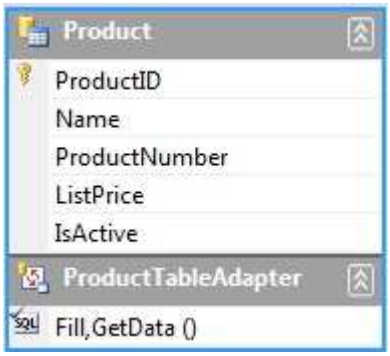
Explanation/Reference:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace ConsoleApplication2
{
    class Program
    {
        static void Main(string[] args)
        {
            System.Xml.Linq.XDocument loaded = System.Xml.Linq.XDocument.Load
(@"C:\contacts.xml");
            var q = from c in loaded.Descendants("contact").Skip(1)
                    select (string)c.Element("firstName") + " " +
                        (string)c.Element("lastName");
            foreach (string name in q)
                Console.WriteLine("{0}", name);
            Console.ReadLine();
        }
    }
}
```

QUESTION 79
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application contrains a DataSet object that has a table. The DataSet object is as shown in the following



You need to ensure that the application meets the following requirements without creating another table

- The DataSet can be extended by using the designer.
- The application displays all product records.
- The product records can be filtered by ProductID.

What should you do?

A. Modify ProductTableAdapter by using the **Fill** method that accepts ProductID as an optional param
B. Modify ProductTableAdapter by using the **GetData** method that accepts ProductID as an optional param
C. Add another TableAdapter object named **ProductTableAdapterByProductID** and configure it to re...
D. Add another query to ProductTableAdapter by using the ProductID field as a parameter,and then filter the records by using this
parameter.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 80
The application has a DataTable. The object has the following columm

- ID
- OrderID
- ProductID
- Quantity
- LineTotal

The **OrderDetailTable** object is populated with data provided by a business partner. Some of the record field and **0** in the **Quantity** field.

You write the following code segment. (Line numbers are included for reference only.)
01 DataColumm col = new DataColumm(“UnitPrice”, typeof(decimal));
02
03 OrderDetailTable. Columms.Add(col);

You need to add DataColumm named UnitPrice to **OrderDetailTable** object.

Which line of code should you insert at line 02?

A. col.Expression = “LineTotal/Quantity”;
B. col.Expression = “LineTotal/ISNULL (Quantity, 1)”;
C. col.Expression = “LineTotal.Value/ ISNULL (Quantity, 1)”;
D. col.Expression = “iif(Quantity > 0, LineTotal/Quantity, 0)”;

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 81
You write the following code segment.

```
DataTable dt “ new DataTable(“Customer”);
dt.Columns.Add(“ID”, typeof(Int32));
dt.Columns.Add(“State”,typeof(String));
dt.Columns.Add(“RegionCode” ,typeof(String));
dt. Rows. Add (1, “WA”, “MT297EM”);
dt. Rows. Add (2, “CA”, “MT33SG”);
dt. Rows. Add (3, “NY”, “MT7322MP”);

var query = from c in dt.AsEnumerable()
            select c (“RegionCode”);
foreach (string rNum in query)
```

You need to display only the digits from the RegionCode field.

Which line of code should you add?

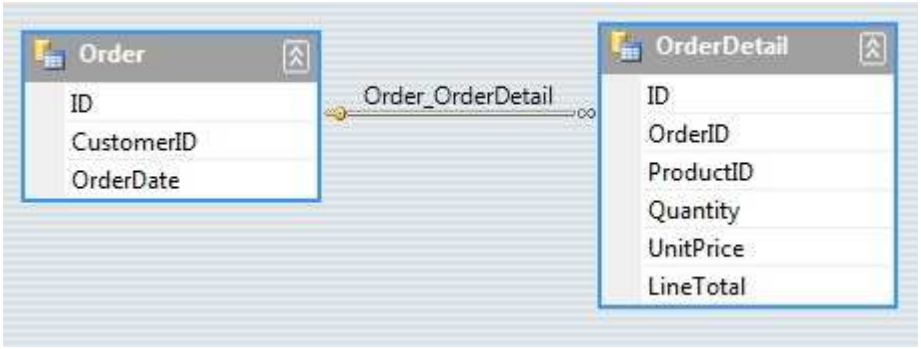
A. Console.WriteLine (rNum.Select(c => char.IsDigit(c)));
B. Console.WriteLine (rNum.Select(c => char.IsDigit(c) ? o : '\0'));
C. Console.WriteLine (rNum.Select(delegate(char c) (return char.IsDigit(c))
D. Console.WriteLine (rNum.Select(delegate(char c, int p) (return compare)

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 82
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application contains a **DataSet** class. The **DataSet** class contrains two tables named Order and OrderDetail



You add a **DataColumn** class named **OrderTotal** to the Order table.

You need to ensure that the OrderTotal column stores the sum of values in the lineTotal column of the

Which expression string should you to the Expession property of the OrderTotal column?

A. "Sum(OrderDetail.LineTotal)"
B. "Sum(Relartionship.LineTotal)"
C. "Sum(Order_OrderDetail.LineTotal)"
D. "Sum(Child(Order_OrderDetail).LineTotal)"

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 83
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
The application retrieves and updates records from a Microsoft SQL Sever 2005 database.
You need to ensure that the following requirements are met:

- Optimistic concurrency is implemented.
- Phantom records are avoided.

Which isolation level should you use?

A. Snapshot
B. Serializable
C. ReadCommitted
D. RepeatableRead

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
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.

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.

QUESTION 84
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application loads customer records into a **DataTable** object that is containted in a database updated by the users of the application.The data in the updated records might contain errors.

You need to ensure that data in the updated records is validated before it is saved to the data

What should you do?

A. ▪ Create an event handler for the **TableNewRow** event of the **DataTable** object.
   ▪ Add a validation code in the event handler to validate the row that is supplied by the...
B. ▪ Create an event handler for the **RowChanging** event of the **DataTable** object.
   ▪ Add a validation code in the event handler to validate the row that is supplied by the...
C. ▪ Call the **RejectChanges** method of the **DataTable** object before you save the update
   ▪ Call the **GetChanges** method of the **DataTable** object to create a copy of the **DataTable**
   ▪ Add a validation code to validate the **DataTable** object that contains the changes.
D. ▪ Call the **AcceptChanges** method of the **DataTable** object before you save the updates
   ▪ Call the **GetChanges** method of the **DataTable** object to create a copy of the **DataTable**
   ▪ Add a validation code to validate the **DataTable** object that contains the changes.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 85
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
Sever 2005 database table
The application performs the following task:

- It fills a DataSet object with the record from the database table.
- It updates the values in the DataSet object.
- It saves the updated values to the database by using a SqlDataAdapter object named adapter.

You need to ensure that updates to the database are sent in batches

Which code segment should you use?

A. adapter.UpdateCommand.UpdateRowSource = UpdateRowSource.Both;
   adapter.UpdateBatchSize = 0;
B. adapter.UpdateCommand.UpdateRowSource = UpdateRowSource.None;
   adapter.UpdateBatchSize = 0;
C. adapter.UpdateCommand.UpdateRowSource = UpdateRowSource.Both;
   adapter.UpdateBatchSize = 10;
D. adapter.UpdateCommand.UpdateRowSource =
   updateRowSource.FirstReturnedRecord;
   adapter.UpdateBatchSize = 10;

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 86
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
You write the following code segment.

```
DataTable dt = new DataTable (“Strings”);
dt = new DataTable();
dt.Columns. Add (“Strings”);
dt.Rows.Add (“A-B”)
dt.Rows.Add (“C-D”)
var c = from Strings in dt. AsEnumerable()
select Strings (0);
int count “0;
```

you need to ensure that the value of the count variable is 4.

Which line of code should you add?

A. count = c. Select (str => ((string)str).Split (“-“).Count();
B. count = c. SelectMany (str => ((string)str). Split (“-“).Count();
C. count = c. Select (str => ((string)str).Replace(“-“, “\n”)) .Count();
D. count = c. SelectMany (str => ((string)str). Replace(“-“, “\n”)) .Count();

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 87
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
2005 database.
The application use the following stored procedure.

```
CREATE PROCEDORE (dbo). (UpdateShippere)
@CountryCode NVarchar(10)
,@NewRateCode int

AS
BEGIN
Update dbo.Shippers
SET RateCode “ @CountryCode

RETURN @ROWCOUNT

END
```

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

```
01 using (SqlConnection connection “ new
      SqlConnection (ConnectionString))
02 {
03     connection.Open();
```

```
04    SqlCommand command = new
          SqlCommand(“UpdateShippers”,  connection);
05
06     command.ExcuteNonQuery();
07 }
```

you need to ensure that the application can update the Shippers.

which of the following code you insert at line 05?

A.
```
command.CommandType = CommandType.StoredProcedure;
SqlParameter parameter = command.Parameters.Add( "@RowCount", SqlDbType.Int);
parameter.Direction = ParameterDirection.ReturnValue;
parameter = command.Parameters.Add("@CountryCode", SqlDbType.NVarChar, 10);
parameter = command.Parameters.Add(",@NewRateCode", SqlDbType.Int);
command.Parameters["@CountryCode"].Value = "USA";
command.Parameters["@NewRateCode"].Value = "778";
```

B.
```
command.CommandType =  CommandType.StoredProcedure;
SqlParameter parameter = command.Parameters.Add(“@RowCount”,
      SqlDbType.Int);
parameter.Direction = ParameterDirection.Output;
parameter = command Parameter.Add (“@CountryCode”,  SqlDbType.NVarChar,
  10, “CountryCode”);
parameter = command Parameter.Add (“@NewRateCode”, SqlDbType.Int, 0,
    “RateCode”);
command.Parameter[“@CountryCode”].Value = “USA”
command.Parameter[“@NewRateCode”].Value = “778”
```

C.
```
command.CommandType = CommandType.StoreProcedure;
SqlParameter parameter = command. Parameter.Add(“@RowCount”,
    SqlDbType.Int);
parameter.direction = ParameterDirection.ReturnValue;
parameter = command.Parameters.Add(“CountryCode”,
SqlDbType.NVarChar, 10, “@CountryCode”);
parameter = command.Parameters.Add(“RateCode”, SqlDbType.Int, 0,
  “@NewRateCode”) ;
 Command.Parameters(“CountryCode”).Value = “USA”;
 Command.Parameters(“RateCode”).Value =  “778”;
```

D.
```
command.CommandType = CommandType.StoredProcedure;
SqlParameter parameter = command.Parameters.Add(“@RowCount”,
    SqlDbType.Int);
parameter.Direction = Parameter.Direction.InputOutput;
parameter = command.Parameter.Add(“@CountryCode”, SqlDbType.NVarChar,
  10);
parameter = command. Parameter.Add(“@NewRateCode”, SqlDbType.Int, 0);
command.Parameter[“@CountryCode”].Value = “USA”;
command.Parameter[“@NewRateCode”].Value = “778”;
```

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 88
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
The application connects to Microsoft SQL Sever 2005 database.
You write the following code segment. (Line numbers are included for reference only.)

```
01 EntityConnection con = new EntityConnection();
02 EntityCommand cmd = con.CreateCommand();
03//Set the Entity SQL command
04 string statement;
05
06//Log statement
```

You need to log the T-SQL statements that will be executed by the **cmd** object against the SQL
Which line of code should you insert at line 05?

A. Statement = cmd.ToString();
B. Statement = cmd.CommandText;
C. Statement = cmd.ToTraceString();
D. Statement = cmd.UpdateRowSource.ToString();

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 89
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
The application uses ADO.NET Entity Framework for persistence.The application contains an entity
You write the following code segment.

```
ContosoEntities context = new ContosoEntities ();
//Modify in-memory customer entity instances
IEnumerable<Customer> res;
```

You need to ensure that the **res** enumeration contains the property values from the data store for ...
Which line of code should you add?

A. res = context.Customer;
B. res = context.Customer.Execute (MergeOption.AppendOnly);
C. res = context.Customer.Execute (MergeOption.NoTracking);
D. res = context.Customer.Execute (MergeOption.OverwriteChanges);

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:
Don't know answer the question not clear
ถ่ายภาพมาไม่หมด (กาก)

QUESTION 90
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
You write a conceptual schema definition for the entry data model in the following manner.

```
<EntityType Name=”Customer>
    <Key>
      <PropertyRef Name =” CustomerID”  />
    </Key>
    <Property Name”CustomerID  Type=”In32”  Nullable=”false”  />
</EntityType>
```

```
<EntityType Name”Order”>
    <Property Name”InvoiceNo” Type”String”  MaxLength=”10”
     FixedLength=”true” />
    <NavigationProperty  Name=”Customer”
      Relationship=”ContosoModel.FK_Customer_Order” FromRole=”Order”
     ToRole=”Customer”  />
</EntityType>
```

You need to retrieve all the **InvoiceNo** property values for the Customer entity
Which entity SQL query should you use?

A. SELECT o.InvoiceNo FROM ContosoEntities.Order as o, ContosoEntities.Customer as c WHERE c.CustomerID=1
B. SELECT o.InvoiceNo FROM ContosoEntities.Order as o, ROW(o.Customer c WHERE c.CustomerID=1
C. SELECT o.InvoiceNo FROM ContosoEntities.Order as o WHERE (select REF (c) from contosoEntities,Customer as c WHERE CustomerID=1)
D. SELECT o.InvoiceNo FROM ContosoEntities.Order as o, o.Customer as c WHERE c. CustomerID=1

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 91
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
2005 database.
You write the following code fragment to generate a storage schema definition for a stored procedure

```
<Function Name=”GetSuppliersForCountry” Aggregate=”false”
 BuiltIn=”false” NiladicFunction=”false”
 IsComposable=”false”
 ParameterTypeSemantics=”AllowImplicitConversion”
 Schema=”dbo”>
  <Parameter Name=”country” Type=”char” Mode=”In” />
</Function>
```

The application uses two named ContosoModel.Store and ContosoModel.
The ContosoModel.Store namespace contains the storage schema. The ContosoModel namespace
Entity named Supplier.
You need to create a function named GetSuppliersInCountry that returns a list of Supplier entity in
What should you do?

A. Create the foliowing code fragment in the conceptual schema.
   <FunctionImport EntitySet=”Supplier” Name=”GetSuppliersInCountry”
    ReturnType=”ContosoModel.Supplier”>
   </FunctionTmportMapping>
B. Create the following code fragment in the conceptual schema.
   <FunctionImport EntitySet=”Supplier” Name=”GetSuppliersInCountry”
      ReturnType=”ContosoModel.Supplier”>
        <Parameter Name=”country” Mode=”In” Type=”String” />
   </FunctionImport>
   Create the following code fragment in the mapping schema.
   <FunctionImportMapping FunctionImportName=”GetSuppliers”

```
    FunctionName="ContosoModel.Store.GetSuppliers">
      <ResultMapping>
          <EntityTypeMapping TypeName ="MultiSet" />
      </ResultMapping>
  </FunctionImportMapping>
```

C. Create the following code fragment in the conceptual schema.

```
<FunctionImport EntitySet="Supplier" Name="GetSuppliersIncountry"
  ReturnType="Collection(ContosoModel.Supplier)">
    <Parameter Name="country" Mode="In" Type="String" />
</FunctionImport>
```

Create the following code fragment in the mapping schema.

```
<FunctionImportMapping FunctionImportName="GetSuppliers"
  FunctionName="ContosoModel.Store.GetSuppliers">
    <ResultMapping>
      <EntityTypeMapping TypeName ="MultiSet" />
    </ResultMapping>
</FunctionImportMapping>
```

D. Create the following code fragment in the conceptual schema.

```
<FunctionImport EntitySet="Supplier" Name="GetSuppliersIncountry"
  ReturnType="Collection(ContosoModel.Supplier)">
    <Parameter Name="country" Mode="In" Type="String" />
</FunctionImport>
```

Create the following code fragment in the mapping schema.

```
<FunctionImportMapping FunctionImportName="GetSuppliers"
  FunctionName="ContosoModel.Store.GetSuppliers">
    <ResultMapping>
      <EntityTypeMapping TypeName ="ContosoModel.Supplier" />
    </ResultMapping>
</FunctionImportMapping>
```

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 92
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft Synchronized
The application uses a database that contains two tables named Orders and OrderDetails.
These two tables.
You write the following code segment.

```
SyncTable tableOrders = new SynTable("Orders");
SyncTable tableOrderDetails = new SyncTable("OrderDetails");
SyncGroup orderGruop = new  SyncGroup ("Changes");
```

You need to ensure that the following requirements are met:

- Updates are synchronized to both the tables.
- Referential integnity is accounted for.

Which two code segments should you add? (Each correct answer presents part of the solution)

A. tableOrders.SyncGroup = orderGroup;
B. tableOrders.TableName = orderGroup. GroupName;
C. tableOrderDetails.SyncGroup = orderGroup;
D. tableOrderDetails.TableName = orderGroup. GroupName;

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 93
You create a Microsoft Windows Mobile-based application by using the Microsoft .NET for ADO .NET. The application connects to a Microsoft SQL Server 2005 database.
The application uses the **SyncAdapter** object.
You set the **InsertCommand** command of the **SyncAdapter** object to a T-SQL statement
You write the following T-SQL statement. (Line numbers are included for reference only.)

```
01  INSERT  INTO dbo. DiscountType  (DiscountTypeID),  (Name),
        (LastEditDate), (CreationDate),VALUES (@DiscountTypeID,
        @Name, @LastEditDate, CreationDate)
02
```

When the **SyncAdapter** object executes the **InsertCommand** command, all the data insert data inserts were synchronized correctly.
You need to ensure that the application can identify successful data inserts.
Which SQL statement should you insert at line 02?

A. SET @syn_result = @@ERROR
B. SET @syn_result = @@IDENTITY
C. SET @syn_result = @@ROWCOUNT
D. SET @syn_result = @@TOTAL_WRITE

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 94
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO>NET.
You write the following code segment.

```
DataTable tblCustomer = new DataTable (“Customer”);
DataColumn parentCol= tblCustomer.Columns.Add(“ID”, typerof (int));
//other Columns added for tblCustomer
DataTable tblOrder = new DataTable (“Order”);
DataColumn
  childCol=tblOrder. Columns.Add(“CustomerID”,Typeof(int));
//Other Columns added for tblOrder
DataSet ds = new DataSet();
Ds.Tables.Add(tblOrder);
Ds.Tables.Add(tblCustomer);
```

The CustomerID columns relates the Order DataTable to the Customer DataTable.
You need to ensure that when you delete a row in the Customer DataTable, the corresponding row
Which code segment should you use?

A. ForeignKeyConatraint fCon = new ForeignKeyConstraint(parentCol, childCol);
fCon.DeleteRule = Rule.SetNull;
tblOrder.Constraints.Add(fCon);
B. ForeignKeyConstraint fCon = new ForeignKeyConstraint(parentCol, childCol);
fCon.DeleteRule = Rule.Cascade;
tblOrder.Constraints.Add(fCon);
C. ForeignKeyConstraint fCon = new ForeignKeyConstraint(parentCol, childCol);
fCon.DeleteRule = Rule.SetNull;
tblCustomer.Constraints.Add(fCon);
D. ForeignKeyConstraint fCon = new ForeignKeyConstraint(parentCol, childCol);
fCon.DeleteRule = Rule.Cascade;
tblCustomer.Constraints.Add(fCon);

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 95
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. The 2005 database.
The application uses a typed DataTable named Orders that stores details of orders, The Orders Data

- The ShippingMethod column that specifies the shipping method used
- The ShippingCost column that specifies the shipping cost value

You need to ensure that only when the shipping method changes, the shipping cost is recalculated
What should you do?

A. Override the **OnColumnChanging** method of the Orders DataTable.
Recalculte the shipping cost if the column beign changed is the ShippingMethod column.
Store the shipping cost value in the ShippingCost Column.
B. Override the **OnRowChanging** method of the Orders DataTable.
Recalculate the shipping cost if the action event is the **DataRowAction.Change** event.
Store the shipping cost value in the ShippingCost column.
C. Override the **AcceptChanges** method of the Orders DataTable.
Recalculate the shipping cost if the original value of the DataRow for the Shippingmethod
Store the shipping cost value in the ShippingCost column.
D. Add an event handler for the **OnNewRow** event of the Orders DataTable.
Calculate the shipping cost in the event handler.
Store the shipping cost value in the ShippingCost column.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
must use table1.ColumnChanging += new DataColumnChangeEventHandler (dt_ColumnChanging);
because if use table1.RowChanging += new DataRowChangeEventHandler (dt_RowChanging); and recaulate ShippingCost and set new value to ShippingCost again it's will recursive event of RowChanging

QUESTION 96
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
You write the following code segment:

```
SqlConnection sqlconn;
…
SqlDataAdapter custAdapter = new SqlDataAdapter("SELECT CustID, CompanyName FROM
Sales.Customer", sqlconn);
SqlDataAdapter ordAdapter = new SqlDataAdapter("SELECT OrderID, CustID, OrderDate FROM "+
"Sales.SalesOrderDetail", sqlconn);
DataSet customerOrders = new DataSet();
custAdapter.Fill(customerOrders, "Customers");
ordAdapter.Fill(customerOrders, "Orders");
```

You need to ensure that the output of the customerOrders DataSet matches the XML schema of the following code fragment:

```
<CustomerOrders>
<Customers>
      <CustID>ALEKI</CustID>
      <CompanyName>Alfreds Futterkiste</CompanyName>
   </Customers>
   <Orders>
      <OrderID>10643</OrderID>
      <CustID>ALEKI</CustID>
      <OrderDate>1997-08-25T00:00:00</OrderDate>
   </Orders>
<Orders>
   <OrdersID>10692</OrderID>
   <CustID>ALFKI</CustID>
   <OrderDate>1997-10-02T00:00:00</OrderDate>
</Orders>
```

Which code segment should you add?

A. DataRelation relation = customerOrders.Relations.Add
   (
   "CustOrders",
   customerOrders.Tables["Customers"].Columns["CustID"],
   customerOrders.Tables["Orders"].Columns["CustID"]
   );
B. DataRelation relation = customerOrders.Relations.Add
   (
   "CustOrders",
   customerOrders.Tables["Orders"].Columns["CustID"],
   customerOrders.Tables["Customers"].Columns["CustID"]
   );
C. DataRelation relation = customerOrders.Relations.Add
   (
   "CustOrders",
   customerOrders.Tables["Customers"].Columns["CustID"],
   customerOrders.Tables["Orders"].Columns["CustID"]

```
);
relation.Nested = true;
```

D.
```
DataRelation relation = customerOrders.Relations.Add
(
“CustOrders”,
customerOrders.Tables[“Orders”].Columns[“CustID”],
customerOrders.Tables[“Customers”].Columns[“CustID”]
);
relation.Nested = true;
```

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 97
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. 2005 database.
You need to separate the security-related exceptions from the other exceptions for database
Which code segment should you use?

A.
```
Catch (System.Security.SecurityException ex)
{
   //Handle all database security related exceptions.
}
```

B.
```
Catch (System.Data.SqlClient.SqlException ex)
{
   for (int i = 0; 1 < ex.Errors.Count; i++) {
      If {ex.Errors[i].Class.ToString() == “14”) {
         //Handle all database security related exceptions.
      }
      else(
         //Handle other exceptions
      }
   }
}
```

C.
```
Catch (System.Data.SqlClient.SqlException ex)
{
for (int I = 0; 1 < ex.Errors.Count; 1++) {
      If {ex.Errors[1].Number == “14”) {
         //Handle all database security related exceptions.
      }
      else(
         //Handle other exceptions
      }
   }
}
```

D.
```
Catch (System.Data.SqlClient.SqlException ex)
{
for (int i = 0; 1 < ex.Errors.Count; i++) {
      If {ex.Errors[i].Message.Contains(“Security”)) {
         //Handle all database security related exceptions.
      }
      else(
         //Handle other exceptions
      }
   }
```

}

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 98
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
You use the following connection string.

```
Conection.ConnectionString = “Persist Security
  Info=False;Encrypt=yes;
User id=userid;
Password=password;
Initial Catalog=dbName;
Server=ServerName”;
```

When the application connects to a Microsoft SQL Server 2005 database at run time, an exception displayed:

"A connection was successfully established with the server, but then an error occurred during the the pre-login handshake."

You need to successfully handle the exception.

What should you do?

A. Encrypt the connection string before setting its property.
B. Encrypt the user id and the password in the connection string before you use it.
C. Establish the IPSec security between the Client computer and the server computer.
D. Secure the data transfer between the Client computer and the SQL Server by using the Secure Socket Layer.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Not sure the answer

QUESTION 99
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.
You need to ensure that the application can connect to any type of database.
What should you do?

A. Set the database driver name in the connection string of the application, and then create

```
DbConnection connection = new OdbcConnection(connectionString);
```

B. Set the database provider name in the connection string of the application, and then create manner.

```
DbConnection connection = new OdbcConnection(connectionString);
```

C. Create the connection object in the following manner.

```
DbProviderFactory factory =
  DbProviderFactories.GetFactory(“Syatem.Data.Odbc”);
DbConnection connection = factory.CreateConnection();
```

D. Create the connection object in the following manner.

```
DbProviderFactory factory =
  DbProviderFactories.GetFactory(databaseProviderName);
DbConnection connection = factory.CreateConnection();
```

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 100
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. The application connects to a Microsoft SQL Server 2005 database.

The application throws an exception when the SQL Connection object is used. You need to handle the exception.

Which code segment should you use?

A.
```
try
{
  if(null!=conn)
    conn.Close();
  // code for the query
}
catch (Exception ex)
{
  // handle exception
}
finally
{
  if(null==conn)
    conn.Open();
}
```

B.
```
try
{
  conn.Close();
  // code for the query
}
catch (Exception ex)
{
  // handle exception
}
finally
{
  if(null!=conn)
    conn.Open();
}
```

C.
```
try
{
  conn.Open();
  // code for the query
}
catch (Exception ex)
{
  // handle exception
```

```
    }
    finally
    {
      if(null!=conn)
        conn.Close();
    }
```

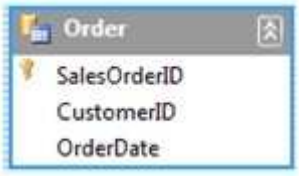
D.
```
    try
    {
      conn.Open();
      // code for the query
    }
    catch (Exception ex)
    {
      // handle exception
    }
    finally
    {
      if(null==conn)
        conn.Close();
    }
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 101
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application contains a DataSet object named orderDS. The object contains a table named Order as shown in the following exhibit.



The application uses a SqlDataAdapter object named daOrder to populate the Order table.
You write the following code segment. (Line numbers are included for reference only.)

```
01 private void FillOrderTable(int pageIndex) {
02 int pageSize = 5;
03
04 }
```

You need to fill the Order table with the next set of 5 records for each increase in the pageIndex value.

Which code segment should you insert at line 03?

A.
```
string sql = "SELECT SalesOrderID, CustomerID, OrderDate FROM Sales.SalesOrderHeader";
daOrder.SelectCommand.CommandText = sql;
daOrder.Fill(orderDS, pageIndex, pageSize, "Order");
```

B.
```
int startRecord = (pageIndex - 1) * pageSize;
string sql = "SELECT SalesOrderID, CustomerID, OrderDate FROM Sales.SalesOrderHeader";
daOrder.SelectCommand.CommandText = sql;
```

daOrder.Fill(orderDS, startRecord, pageSize, "Order");

C. string sql = string.Format("SELECT TOP {0} SalesOrderID, customerID, orderDate FROM Sales.SalesOrderHeader WHERE SalesOrderID > {1}", pageSize, pageIndex);
daOrder.SelectCommand.CommandText = sql;
daOrder.Fill(orderDS, "Order");

D. int startRecord = (pageIndex - 1) * pageSize;
string sql = string.Format("SELECT TOP {0} SalesOrderID, CustomerID, orderDate FROM Sales.SalesOrderHeader WHERE SalesOrderID > {1}", pageSize, startRecord);
daOrder.SelectCommand.CommandText = sql;
daOrder.Fill(orderDS, "Order");

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 102
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application contains a TextBox control named txtProductID. The application will return a list of active products that have the ProductID field equal to the txtProductID.Text property.
You write the following code segment. (Line numbers are included for reference only.)

```
01 private DataSet GetProducts(SqlConnection cn) {
02     SqlCommand cmd = new SqlCommand();
03     cmd.Connection = cn;
04     SqlDataAdapter da = new SqlDataAdapter(cmd);
05     DataSet ds = new DataSet();
06
07     da.Fill(ds);
08     return ds;
09 }
```

You need to populate the DataSet object with product records while avoiding possible SQL injection attacks.

Which code segment should you insert at line 06?

A. cmd.CommandText = string.Format("sp_sqlexec 'SELECT ProductID, Name FROM Product WHERE ProductID={0} AND IsActive=1'", txtProductID.Text);

B. cmd.CommandText = string.Format("SELECT ProductID, Name FROM Product WHERE ProductID={0} AND IsActive=1", txtProductID.Text);
cmd.Prepare();

C. cmd.CommandText = string.Format("SELECT ProductID, Name FROM Product WHERE ProductID={0} AND IsActive=1", txtProductID.Text);
cmd.CommandType = CommandType.TableDirect;

D. cmd.CommandText = "SELECT ProductID, Name FROM Product WHERE ProductID=@productID AND IsActive=1";
cmd.Parameters.AddWithValue("@productID", txtProductID.Text);

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 103
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

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

```
01 private List<string> GetEmployers() {
02     List<string> employers = new List<string>();
03     SqlCommand cmd = new SqlCommand();
04     ...
05     XmlReader reader = cmd.ExecuteXmlReader();
06     while (reader.Read()) {
07
08     }
09     return employers;
10 }
```

The cmd object returns the following XML data structure.

```
<Resume>
  <Name>
    <Name.First>Shai</Name.First>
    <Name.Last>Bassli</Name.Last>
  </Name>
  <Employment>
    <Emp.OrgName>Wingtip Toys</Emp.OrgName>
    ...
  </Employment>
  ...
</Resume>
```

You need to populate the employers list with each employer entry in the XML data structure.

Which code segment should you insert at line 07?

A.
```
if (reader.Name == "Emp.OrgName")
{
  string employer = reader.ReadElementContentAsString();
  employers.Add(employer);
}
```

B.
```
if (reader.Name == "Emp.OrgName")
{
  reader.MoveToContent();
  string employer = reader.Value;
  employers.Add(employer);
}
```

C.
```
if (reader.Name == "Emp.OrgName" && reader.HasAttributes)
{
  reader.MoveToFirstAttribute();
  string employer = reader.Value;
  employers.Add(employer);
}
```

D.
```
if (reader.Name == "Emp.OrgName")
{
  reader.MoveToFirstAttribute();
  if (reader.HasValue)
  {
    string employer = reader.Value;
    employers.Add(employer);
  }
```

```
}
```

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 104
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application uses the following LINQ query.

```
var query = from o in orderLinesQuery
            where (string)o["CarrierTrackingNumber"] == "AEB6-4356-80"
            select new
            {
              SalesOrderID = o.Field<int>("SalesOrderID"),
              OrderDate = o.Field<DateTime>("OrderDate")
            };
```

The CarrierTrackingNumber field in the DataRow is nullable. You need to ensure that an exception does not occur if the CarrierTrackingNumber field has a null value.

Which code segment should you use?

A.
```
var query = from o in orderLinesQuery
            where !o.IsNull("CarrierTrackingNumber") &&
            (string)o["CarrierTrackingNumber"] == "AEB6-4356-80"
            select new
            {
              SalesOrderID = o.Field<int>("SalesOrderID"),
              OrderDate = o.Field<DateTime>("OrderDate")
            };
```

B.
```
var query = from o in orderLinesQuery
            where o.IsNull("CarrierTrackingNumber") &&
            (string)o["CarrierTrackingNumber"] == "AEB6-4356-80"
            select new
            {
              SalesOrderID = o.Field<int>("SalesOrderID"),
              OrderDate = o.Field<DateTime>("OrderDate")
            };
```

C.
```
var query = from o in orderLinesQuery
            where o.Field<string>("CarrierTrackingNumber") == "AEB6-4356-80" select new
            {
              SalesOrderID = o.Field<int>("SalesOrderID"),
              OrderDate = o.Field<DateTime>("OrderDate")
            };
```

D.
```
var query = from o in orderLinesQuery
            where (string)o["CarrierTrackingNumber"] == DbNull.Value &&
            (string)o["CarrierTrackingNumber"] == "AEB6-4356-80"
            select new
            {
              SalesOrderID = o.Field<int>("SalesOrderID"),
              OrderDate = o.Field<DateTime>("OrderDate")
            };
```

Correct Answer: C

Section: (none)
Explanation

Explanation/Reference:

QUESTION 105
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application connects to a Microsoft SQL Server 2005 database that contains the tblOrderDetails table. You plan to create an exception handler for the application.
The tblOrderDetails table has been created by using the following DDL statement.

```
CREATE TABLE tblOrderDetails(
  [OrderID] int NOT NULL FOREIGN KEY REFERENCES tblCustomerOrders(OrderID),
  [ProductID] int NOT NULL,
  [Qty] int NOT NULL,
  [UnitPrice] float CONSTRAINT ckPositivePrice CHECK (UnitPrice >=0),
  [Discount] float CONSTRAINT ckPositiveDiscount CHECK (Discount >=0))
```

You need to ensure that the users are notified when an update to the tblOrderDetails table causes a violation of any constraint.

What should you do?

A. ·Catch the System.Exception exception.
   ·Extract the message value.
   ·Display the message value to the user.
B. ·Catch the System.Data.SqlClient.SqlException exception.
   ·Extract the message value.
   ·Display the message value to the user.
C. ·Catch the System.Exception exception.
   ·Loop through all the error objects.
   ·Capture the relevant data from each object.
   ·Display the data to the user.
D. ·Catch the System.Data.SqlClient.SqlException exception.
   ·Loop through all the error objects.
   ·Capture the relevant data from each object.
   ·Display the data to the user.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 106
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application has the following typed DataSets:

·A DataSet named DSCustomers with a DataTable named Customers
·A DataSet named DSOrders with a DataTable named Orders

You write the following code segment.

```
DSCustomers dsCust = new DSCustomers();
DSOrders dsOrd = new DSOrders();
```

...
IDataReader rd;

You need to expose the Customers DataTable and the Orders DataTable by using a DataReader stream.

Which code segment should you add?

A. rd = dsCust.CreateDataReader(dsOrd.Orders);
B. rd = dsCust.CreateDataReader(dsCust.Customers, dsOrd.Orders);
C. dsCust.Load(dsOrd.CreateDataReader(), LoadOption.Upsert, "Customers");
   rd = dsCust.CreateDataReader();
D. DataTable tbl = new DataTable();
   tbl.Load(dsOrd.Orders.CreateDataReader());
   tbl.Load(dsCust.Customers.CreateDataReader());
   rd = tbl.CreateDataReader();

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 107
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The connection string that contains the user name and password is stored directly in the code of the application.

You need to ensure that the password in the connection string is as secure as possible.

What should you do?

A. Add the connection string to the Settings.settings file.
B. Set the Persist Security Info keyword in the connection string to true.
C. Set the Persist Security Info keyword in the connection string to false.
D. Add the connection string to the Web.config file and use protected configuration.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 108
You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. The application connects to a Microsoft SQL Server 2005 database.

The database contains two tables that are displayed in two different GridView controls. The tables are displayed by using two SqlConnection objects.
You need to display the tables simultaneously by using a single SqlConnection object.

What should you do?

A. Execute two SqlDataReader objects by using a single SqlCommand object.
B. Enable Multiple Active Result Sets (MARS) in the connection string of the application.

C. Create a bound connection by using the sp_getbindtoken and the sp_bindsession stored procedures.
D. Create an exception handler for the connection-busy exception that is thrown on using a single SqlConnection object.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 109
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You application has a DataTable named CustActions, which has the following structure as seen in the exhibit.

Column Names	Column Data Type
LatePaymentsCount	System.Int16
OverrideCode	System.String

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

```
01 DataColumn AccountSuspendedColumn = new DataColumn();
02 AccountSuspendedColumn.DataType = typeof(Boolean);
03 AccountSuspendedColumn.ColumnName = "AccountSuspended";
04 CustActions.Columns.Add(AccountSuspendedColumn);
```

You want to make sure that the values in the AccountSuspendedColumn column are set to True, with the following conditions:

1. The value contained in the LatePaymentsCount column is greater than 10.
2. The value contained in the OverrideCode column is equal to "EXEMPT".

What should you do?

A. Add the following code segment at line 04:
AccountSuspendedColumn.Expression = "(LatePaymentsCount > 10) AND OverrideCode = 'EXEMPT' ";
B. Add the following code segment at line 04:
AccountSuspendedColumn.Expression = "('@LatePaymentsCount' > 10) AND 'OverrideCode' = \'EXEMPT\' ";
C. Add the following code segment at line 04:
AccountSuspendedColumn.Expression = "(@LatePaymentsCount > 10) AND @OverrideCode = #EXEMPT# ";
D. Add the following code segment at line 04:
AccountSuspendedColumn.Expression = "('LatePaymentsCount' > 10) AND 'OverrideCode' = \'EXEMPT\' ";

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 110
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application caches refer to tables by using a Local Database Cache class. You have completed the following

code segment. (Line numbers are for reference only.)

```
01 public partial class LocalDataCacheProvider
02 {
03     private void InitializeConnection(string connectionString)
04     {
05         this.Connection = new System.Data.SqlClient.SqlConnection(connectionString);
06     }
07     private void InitializeNewAnchorCommand()
08     {
09
10     }
11 }
```

You want to make sure that the LocalDataCacheProvider class handles all database communication.

What should you do?

A. Use the following code segment in line 01:
   public class LocalDataCacheProvider : Microsoft.Synchronization.Data.ServerSyncProviderProxy
B. Use the following code segment in line 01:
   public partial class LocalDataCacheProvider :
   Microsoft.Synchronization.Data.Server.DbServerSyncProvider
C. Use the following code segment in line 01:
   public partial class LocalDataCacheProvider : Microsoft.Synchronization.Data.SyncAnchor
D. Use the following code segment in line 01:
   public partial class LocalDataCacheProvider : Microsoft.Synchronization.Data.Server.SyncAdapter

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 111
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following code segment in the exception handler of the application. (Line numbers are for reference only.)

```
01 private string ShowSQLErrors(SqlException ex){
02     StringBuilder sb = new StringBuilder();
03     foreach (SqlError err in ex.Errors) {
04         sb.Append("Message: ");
05         sb.Append(err.Number.ToString());
06         sb.Append(", Level: ");
07
08         sb.Append(", State: ");
09         sb.Append(err.State.ToString());
10         sb.Append(", Source: ");
11         sb.AppendLine(err.Source.ToString());
12         sb.AppendLine(err.Message.ToString());
13         sb.AppendLine();
14     }
15     return sb.ToString();
16 }
```

You need to make an insertion on line 07 so that the original severity level of the error is included in the error

message for each SQL error that occurs.

What should you do?

A. Add the following code segment to line 07:
   sb.Append(err.Procedure.ToString());
B. Add the following code segment to line 07:
   sb.Append(err.Class.ToString());
C. Add the following code segment to line 07:
   sb.Append(err.LineNumber.ToString());
D. Add the following code segment to line 07:
   sb.Append(err.ToString());

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 112
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. You have completed the following code segment. (Line numbers are for reference only.)

```
DataTable tbl = new DataTable();
tbl.Columns.Add("Price", typeof(double));
//Other columns added
//Fill data
```

You need to retrieve the maximum value in the Price column of the tbl DataTable.

What should you do?

A. Add the following code segment:
   double maxPrice = (double)tbl.Select("Max(Price)")[0]["Price"];
B. Add the following code segment:
   tbl.DefaultView.RowFilter = "Max(Price)";
   double maxPrice=(double) tbl.DefaultView[0]["Price"];
C. Add the following code segment:
   double maxPrice = (double)tbl.Compute("Max(Price)", "");
D. Add the following code segment:
   double maxPrice = (double)tbl.Rows.Find("Max(Price)")["Price"];

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 113
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. Your application contains the following code. The Customer and Invoice tables are found in the invoice records of customers that reside in the database. Your application contains the following code.

```
DataSet ds = new DataSet();
```

```
DataTable tblCust = ds.Tables.Add("Customer");
DataTable tblInv = ds.Tables.Add("Invoice");
DataColumn colPar = tblCust.Columns.Add("ID", typeof(int));
tblCust.Constraints.Add("PKey", colPar, true);
tblInv.Columns.Add("InvNo", typeof(string));
DataColumn colChild = tblInv.Columns.Add("CustomerID", typeof(int));
DataRow[] relatedRows;
//Retrieve data for Customer and Invoice
```

You need to retrieve the invoice details from the tblInv DataTable for customer records that have a value 1 in the ID column of the tblCust DataTable.

What should you do?

A. Add the following code segment:
```
DataRelation rel = new DataRelation("RelCust", colPar, colChild);
ds.Relations.Add(rel);
relatedRows = tblCust.Rows.Find(1).GetParentRows("RelCust");
```
B. Add the following code segment:
```
ForeignKeyConstraint con = new ForeignKeyConstraint("RelCust", colPar, colChild);
tblInv.Constraints.Add(con);
relatedRows = tblCust.Rows.Find(1).GetChildRows("RelCust");
```
C. Add the following code segment:
```
ForeignKeyConstraint con = new ForeignKeyConstraint("RelCust", colPar, colChild);
tblInv.Constraints.Add(con);
relatedRows = con.RelatedTable.Rows.Find(1).GetChildRows("RelCust");
```
D. Add the following code segment:
```
DataRelation rel = new DataRelation("RelCust", colPar, colChild);
ds.Relations.Add(rel);
relatedRows = tblCust.Rows.Find(1).GetChildRows("RelCust");
```

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 114
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. Your application contains the following code.

```
string sql = "Select InvoiceNo, OrderAmount from Orders";
SqlDataAdapter adp = new SqlDataAdapter(sql, con);
DataTable tblOrders = new DataTable();
adp.Fill(tblOrders);
```

You want the following: If the value of the OrderAmount column is greater than 1500, then a discount of 6 percent is calculated. Furthermore, you need to create a DataColumn object named Discount that contains the discount value for each row in the tblOrders DataTable.

What should you do?

A. Add the following code segment:
```
DataColumn col = newDataColumn("Discount");
tblOrders.Columns.Add(col);
col.Expression=tblOrders.Compute("OrderAmount*6/100","OrderAmount>1500").ToString();
```

B. Add the following code segment:
DataColumn col = newDataColumn("Discount");
col.DefaultValue = "IIF(OrderAmount>1500,OrderAmount*6/100,0)";
tblOrders.Columns.Add(col);

C. Add the following code segment:
DataColumn col = newDataColumn("Discount");
tblOrders.Columns.Add(col);
tblOrders.Compute("Discount=OrderAmount*6/100","OrderAmount>1500");

D. Add the following code segment:
DataColumn col = new DataColumn("Discount");
col.Expression = "IIF(OrderAmount>1500,OrderAmount*6/100,0)"; tblOrders.Columns.Add(col);

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 115
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. The application uses the Microsoft OLE DB Provider as the data provider for Oracle. The application throws an error when you try to retrieve the Oracle BLOB data. You need to make sure that the Oracle BLOB data can be retrieved.

What should you do?

A. Disable the connection pooling provided by the data provider for Oracle.
B. Use the OracleClient Provider.
C. Set the Unicode attribute in the Oracle connection string to True.
D. Change the Oracle client cursors to use asynchronous fetches.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 116
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. The application uses the Microsoft OLE DB Provider as the data provider for Oracle. The application throws an error when you try to retrieve the Oracle BLOB data. You need to make sure that the Oracle BLOB data can be retrieved.

What should you do?

A. Disable the connection pooling provided by the data provider for Oracle.
B. Use the OracleClient Provider.
C. Set the Unicode attribute in the Oracle connection string to True.
D. Change the Oracle client cursors to use asynchronous fetches.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 117
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application that will connect to the Microsoft SQL Server 2005 database. The application uses a SqlConnection object that is active for the lifetime of a user session. You want to make sure that the application handles all the exceptions that cannot be recovered.

What should you do?

A. Catch all the SqlException exceptions and examine the State property of each error and if it is 0, exit the application.
B. Catch all the SqlException exceptions and examine the Source property of each error and if the Source property value is not .Net SqlClient Data Provider, exit the application.
C. Catch all the SqlException exceptions and examine the Class property of each error and if the Class property value is greater than 16, exit the application.
D. Catch all the SqlException exceptions and examine the State property of each error and if is 0, exit the application

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 118
You work as an application developer at Contoso.com. You use Microsoft .NET Framework 3.5 and Microsoft ADO.NET to develop an application. You have written the following code segment in the application. (Line numbers are included for reference only.)

```
01 private List<string> GetEmployers() {
02     List<string> employers = new List<string>();
03     SqlCommand cmd = new SqlCommand();
04
05     XmlReader reader = cmd.ExecuteXmlReader();
06     while (reader.Read()) {
07
08     }
09     return employers;
10 }
```

The cmd object returns the following XML data structure:

```
<Users>
   <Name>
      <First>Mia</First>
      <Last>Hamm</Last>
   </Name>
   <Department>
      <Dept.Name>Marketing</Dept.Name>
      ...
   </Department>
   ...
</Users>
```

You want to populate the users list with each user entry in the XML data structure.

What should you do?

A. Add the following code segment at line 07:
```
if (reader.Name == "Dept.Name")
{
   reader.MoveToContent();
   string user = reader.Value;
   users.Add(user);
}
```
B. Add the following code segment at line 07:
```
if (reader.Name == "Dept.Name" && reader.HasAttributes)
{
   reader.MoveToFirstAttribute();
   string user = reader.Value;
   users.Add(user);
}
```
C. Add the following code segment at line 07:
```
if (reader.Name == "Dept.Name")
{
   string user = reader.ReadElementContentAsString();
   users.Add(user);
}
```
D. Add the following code segment at line 07:
```
if (reader.Name == "Dept.Name")
{
   reader.MoveToFirstAttribute();
   if (reader.HasValue)
   {
      string user = reader.Value;
      users.Add(user);
   }
}
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference: