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Exam Code: 70-516

Exam Name: TS: Accessing Data with Microsoft .net Framework 4 (C# and VB)

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QUESTION 1
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to model entities. You define a Category class by writing the following code segment. (Line numbers are included for reference only.)

```
01 public class Category
02 {
03 public int CategoryID { get; set; }
04 public string CategoryName { get; set; }
05 public string Description { get; set; }
06 public byte[] Picture { get; set; }
07
08 }
```

You need to add a collection named Products to the Category class. You also need to ensure that the collection supports deferred loading. Which code segment should you insert at line 07?

A. public static List <Product> Products { get; set; }
B. public virtual List <Product> Products { get; set; }
C. public abstract List <Product> Products { get; set; }
D. protected List <Product> Products { get; set; }

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Forms application. You plan to deploy the application to several shared client computers. You write the following code segment. (Line numbers are included for reference only.)

```
01Configuration config = ConfigurationManager.OpenExeConfiguration(exeConfigName);
02
03config.Save();
04...
```

You need to encrypt the connection string stored in the .config file. Which code segment should you insert at line 02?

A. ConnectionStringsSection section = config.GetSection("connectionString") as ConnectionStringsSection;
    section.SectionInformation.ProtectSection("DataProtectionConfigurationProvider");
B. ConnectionStringsSection section = config.GetSection("connectionStrings") as ConnectionStringsSection;
    section.SectionInformation.ProtectSection("DataProtectionConfigurationProvider");
C. ConnectionStringsSection section = config.GetSection("connectionString") as ConnectionStringsSection;
    section.SectionInformation.ProtectSection("RsaProtectedConfigurationProvider");
D. ConnectionStringsSection section = config.GetSection("connectionStrings") as ConnectionStringsSection;
    section.SectionInformation.ProtectSection("RsaProtectedConfigurationProvider");

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application uses the ADO.NET Entity Framework to model entities. The database includes objects based on the exhibit. The application includes the following code segment. (Line numbers are included for reference only.)

```
01 using (AdventureWorksEntities context = new AdventureWorksEntities()){
02
03 foreach (SalesOrderHeader order in customer.SalesOrderHeader){
04Console.WriteLine(String.Format("Order: {0} ", order.SalesOrderNumber));
05 foreach (SalesOrderDetail item in order.SalesOrderDetail){
06Console.WriteLine(String.Format("Quantity: {0} ", item.Quantity));
07Console.WriteLine(String.Format("Product: {0} ", item.Product.Name));
08}
09}
10}
```

You want to list all the orders for a specified customer. You need to ensure that the list contains the following fields: "Order number "Quantity of products "Product name Which code segment should you insert at line 02?

A. Contact customer = context.Contact.Where("it.ContactID = @customerId", new ObjectParameter ("@customerId", customerId)).First();
B. Contact customer = context.Contact.Where("it.ContactID = @customerId", new ObjectParameter ("customerId", customerId)).First();
C. context.ContextOptions.LazyLoadingEnabled = true; Contact customer = (From contact in context.Contact include("SalesOrderHeader.SalesOrderDetail") select conatct). FirstOrDefault();
D. Contact customer = (From contact in context.Contact include("SalesOrderHeader") select conatct). FirstOrDefault();

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use the ADO.NET Entity Framework to model entities. You write the following code segment. (Line numbers are included for reference only.)

```
01public partial class SalesOrderDetail : EntityObject
02{
03partial void OnOrderQtyChanging(short value)
04{
05
06{
07...
08}
09}
10}
```

You need to find out whether the object has a valid ObjectStateEntry instance. Which code segment should you insert at line 05?

A. if (this.EntityState != EntityState.Detached)

B. if (this.EntityState != EntityState.Unchanged)
C. if (this.EntityState != EntityState.Modified)
D. if (this.EntityState != EntityState.Added)

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Communication Foundation (WCF) Data Services service. The service connects to a Microsoft SQL Server 2008 database. The service is hosted by an Internet Information Services (IIS) 6.0 Web server.

The application works correctly in the development environment. However, when you connect to the service on the production server, attempting to update or delete an entity results in an error. You need to ensure that you can update and delete entities on the production server. What should you do?

A. Add the following line of code to the InitializeService method of the service.
    config.SetEntitySetAccessRule ("*",EntitySetRights.WriteDelete | EntitySetRights.WriteInsert);
B. Add the following line of code to the InitializeService method of the service.
    config.SetEntitySetAccessRule ("*",EntitySetRights.WriteDelete | EntitySetRights.WriteMerge);
C. Configure IIS to allow the PUT and DELETE verbs for the .svc Application Extension.
D. Configure IIS to allow the POST and DELETE verbs for the .svc Application Extension.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. You create a DataSet object in the application. You add two DataTable objects named App_Products and App_Categories to the DataSet. You add the following code segment to populate the DataSet object. (Line numbers are included for reference only.)

```
01public void Fill(SqlConnection cnx, DataSet ds) {
03var cmd = cnx.CreateCommand();
04cmd.CommandText = "SELECT * FROM dbo.Products; " + "SELECT * FROM dbo.Categories";
05var adapter = new SqlDataAdapter(cmd);
06
07}
```

You need to ensure that App_Products and App_Categories are populated from the dbo.Products and dbo.Categories database tables. Which code segment should you insert at line 06?

A. adapter.Fill(ds, "Products"); adapter.Fill(ds, "Categories");
B. adapter.Fill(ds.Tables["App_Products"]);
   adapter.Fill(ds.Tables["App_Categories"]);
C. adapter.TableMappings.Add("Table", "App_Products");
   adapter.TableMappings.Add("Table1", "App_Categories");
   adapter.Fill(ds);
D. adapter.TableMappings.Add("Products", "App_Products");
   adapter.TableMappings.Add("Categories", "App_Categories");
   adapter.Fill(ds);

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The
application connects to a Microsoft SQL Server database.
You load records from the Customers table into a DataSet object named dataset.
You need to retrieve the value of the City field from the first and last records in the Customers table. Which
code segment should you use?

A. DataTable dt = dataset.Tables["Customers"];
   string first = dt.Rows[0]["City"].ToString();
   string last = dt.Rows[dt.Rows.Count - 1]["City"].ToString();
B. DataTable dt = dataset.Tables["Customers"];
   string first = dt.Rows[0]["City"].ToString();
   string last = dt.Rows[dt.Rows.Count]["City"].ToString();
C. DataRelation relationFirst = dataset.Relations[0];
   DataRelation relationLast = dataset.Relations[dataset.Relations.Count - 1];
   string first = relationFirst.childTable.Columns["City"].ToString();
   string last = relationLast.childTable.Columns["City"].ToString();
D. DataRelation relationFirst = dataset.Relations[0];
   DataRelation relationLast = dataset.Relations[dataset.Relations.Count];
   string first = relationFirst.childTable.Columns["City"].ToString();
   string last = relationLast.childTable.Columns["City"].ToString();

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The
application connects to a Microsoft SQL Server database. The application has two DataTable objects that
reference the Customers and Orders tables in the database. The application contains the following code
segment. (Line numbers are included for reference only.

```
01DataSet customerOrders = new DataSet();
02customerOrders.EnforceConstraints = true;
03ForeignKeyConstraint ordersFK = new ForeignKeyConstraint("ordersFK",
04customerOrders.Tables["Customers"].Columns["CustomerID"],
05customerOrders.Tables["Orders"].Columns["CustomerID"]);
06
```

07customerOrders.Tables["Orders"].Constraints.Add(ordersFK);

You need to ensure that an exception is thrown when you attempt to delete Customer records that have related Order records. Which code segment should you insert at line 06?

A. ordersFK.DeleteRule = Rule.SetDefault;
B. ordersFK.DeleteRule = Rule.None;
C. ordersFK.DeleteRule = Rule.SetNull;
D. ordersFK.DeleteRule = Rule.Cascade;

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application uses a DataTable named OrderDetailTable that has the following columns: "ID "OrderID "ProductID "Quantity "LineTotal Some records contain a null value in the LineTotal field and 0 in the Quantity field. You write the following code segment. (Line numbers are included for reference only.)

01DataColumn column = new DataColumn("UnitPrice", typeof(double));
02
03OrderDetailTable.Columns.Add(column);

You need to add a calculated DataColumn named UnitPrice to the OrderDetailTable object. You also need to ensure that UnitPrice is set to 0 when it cannot be calculated. Which code segment should you insert at line 02?

A. column.Expression = "LineTotal/Quantity";
B. column.Expression = "LineTotal/ISNULL(Quantity, 1)";
C. column.Expression = "if(Quantity > 0, LineTotal/Quantity, 0)";
D. column.Expression = "iif(Quantity > 0, LineTotal/Quantity, 0)";

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 10
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. You use the ADO.NET Entity Framework to manage persistence-ignorant entities. You create an ObjectContext instance named context. Then, you directly modify properties on several entities. You need to save the modified entity values to the database. Which code segment should you use?

A. context.SaveChanges(SaveOptions.AcceptAllChangesAfterSave);
B. context.SaveChanges(SaveOptions.DetectChangesBeforeSave);
C. context.SaveChanges(SaveOptions.None);
D. context.SaveChanges();

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application uses the following object query to load a product from the database. (Line numbers are included for reference only.)

```
01using (AdventureWorksEntities advWorksContext = new AdventureWorksEntities())
02{
03ObjectQuery <Product> productQuery = advWorksContext.Product.Where("it.ProductID = 900");
04
05}
```

You need to log the command that the query executes against the data source. Which code segment should you insert at line 04?

A. Trace.WriteLine(productQuery.ToString());
B. Trace.WriteLine(productQuery.ToTraceString());
C. Trace.WriteLine(productQuery.CommandText);
D. Trace.WriteLine(((IQueryable)productQuery).Expression);

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Forms application. The application connects to a Microsoft SQL Server database. You need to find out whether the application is explicitly closing or disposing SQL connections. Which code segment should you use?

A. string instanceName = Assembly.GetEntryAssembly().FullName;
   PerformanceCounter perf = new PerformanceCounter(".NET Data Provider for SqlServer",
   "NumberOfReclaimedConnections", instanceName, true);
   int leakedConnections = (int)perf.NextValue();
B. string instanceName = Assembly.GetEntryAssembly().GetName().Name;
   PerformanceCounter perf = new PerformanceCounter(".NET Data Provider for SqlServer",
   "NumberOfReclaimedConnections", instanceName, true);
   int leakedConnections = (int)perf.NextValue();
C. string instanceName = Assembly.GetEntryAssembly().FullName;
   PerformanceCounter perf = new PerformanceCounter(".NET Data Provider for SqlServer",
   "NumberOfNonPooledConnections", instanceName, true);
   int leakedConnections = (int)perf.NextValue();
D. string instanceName = Assembly.GetEntryAssembly().GetName().Name;
   PerformanceCounter perf = new PerformanceCounter(".NET Data Provider for SqlServer",
   "NumberOfNonPooledConnections", instanceName, true);
   int leakedConnections = (int)perf.NextValue();

Correct Answer: A

QUESTION 13
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. You write the following code segment that executes two commands against the database within a transaction. (Line numbers are included for reference only.)

```
01using (SqlConnection connection = new SqlConnection(cnnStr)) {
02connection.Open();
03SqlTransaction sqlTran = connection.BeginTransaction();
04SqlCommand command = connection.CreateCommand();
05command.Transaction = sqlTran;
06try {
07command.CommandText = "INSERT INTO Production.ScrapReason(Name) VALUES('Wrong size')";
08command.ExecuteNonQuery();
09command.CommandText = "INSERT INTO Production.ScrapReason(Name) VALUES('Wrong color')";
10command.ExecuteNonQuery();
11
12}
```

You need to log error information if the transaction fails to commit or roll back.
Which code segment should you insert at line 11?

A. sqlTran.Commit();
   }
   catch (Exception ex) {
   sqlTran.Rollback();
   Trace.WriteLine(ex.Message); }
B. sqlTran.Commit();
   }
   catch (Exception ex) {
   Trace.WriteLine(ex.Message);
   try {
   sqlTran.Rollback();
   }
   catch (Exception exRollback) {
   Trace.WriteLine(exRollback.Message);
   } } }
C. catch (Exception ex){
   Trace.WriteLine(ex.Message);
   try{
   sqlTran.Rollback();
   } catch (Exception exRollback){
   Trace.WriteLine(exRollback.Message);
   }}
   finaly { sqltran.commit( );}}
D. catch (Exception ex) {
   sqlTran.Rollback();
   Trace.WriteLine(ex.Message);
   }
   finaly {
   try {
   sqltran.commit( );
   } catch (Exception exRollback) {
   Trace.WriteLine(excommit.Message); }}

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use the ADO.NET Entity Framework to model entities. The application connects to a Microsoft SQL Server database named AdventureWorks. The application includes the following code segment. (Line numbers are included for reference only.)

```
01using (AdventureWorksEntities context = new AdventureWorksEntities()){
02ObjectQuery <SalesOrderHeader> orders =
03context.SalesOrderHeader.Where("it.CreditCardApprovalCode IS NULL").Top("100");
04foreach (SalesOrderHeader order in orders){
05order.Status = 4;
06}
07try {
08context.SaveChanges();
09}
10catch (OptimisticConcurrencyException){
11
12}
13}
```

You need to resolve any concurrency conflict that can occur. You also need to ensure that local changes are persisted to the database. Which code segment should you insert at line 11?

A. context.Refresh(RefreshMode.ClientWins, orders);
    context.AcceptAllChanges();
B. context.Refresh(RefreshMode.ClientWins, orders);
    context.SaveChanges();
C. context.Refresh(RefreshMode.StoreWins, orders);
    context.AcceptAllChanges();
D. context.Refresh(RefreshMode.StoreWins, orders);
    context.SaveChanges();

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use Microsoft ADO.NET Entity Data Model (EDM) to model entities. You create an entity named Person with a schema defined by the following XML fragment.

```
<EntityType Name="CPerson">
 <Key>
  <PropertyRef Name="PersonId" />
 </Key>
 <Property Name="PersonId" Type="Int32" Nullable="false" />
 <Property Name="CompanyName" Type="String" />
 <Property Name="ContactName" Type="String" />
```

<Property Name="ContactTitle" Type="String" />
 <Property Name="Address" Type="String" />
</EntityType>

You need to ensure that entities within the application are able to add properties related to the city, region, and country of Person's address. What should you do?

A. "Create a new complex type named CAddress that contains the properties for city, region, and country. "Change the Type of the Address property in CPerson to "Self.CAddress".
B. "Create a SubEntity named Address. "Map the SubEntity to a stored procedure that retrieves city, region, and country.
C. "Create a new entity named Address. "Add a person ID property to filter the results to display only the City, Region, and Country properties for a specific Person entity.
D. "Create a view named Name that returns city, region, and country along with person IDs. "Add a WHERE clause to filter the results to display only the City, Region and Country properties for a specific Person entity.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The database includes a table that contains information about all the employees. The database table has a field named EmployeeType that identifies whether an employee is a Contractor or a Permanent employee. You declare the Employee entity base type. You create a new Association entity named Contractor that inherits the Employee base type. You need to ensure that all Contractors are bound to the Contractor class. What should you do?

A. Modify the .edmx file to include the following line of code. <NavigationProperty Name="Type" FromRole="EmployeeType" ToRole="Contractor" />
B. Modify the .edmx file to include the following line of code. <Condition ColumnName="EmployeeType" Value="Contractor" />
C. Use the Entity Data Model Designer to set up an association between the Contractor class and EmployeeType.
D. Use the Entity Data Model Designer to set up a referential constraint between the primary key of the Contractor class and EmployeeType.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
You use Microsoft Visual Studio 2010 and Microsoft ADO.NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. You use the ADO.NET LINQ to SQL model to retrieve data from the database. You use stored procedures to return multiple result sets. You need to ensure that the result sets are returned as strongly typed values. What should you do?

A. Apply the FunctionAttribute and ResultTypeAttribute to the stored procedure function. Use the GetResult <TElement> method to obtain an enumerator of the correct type.
B. Apply the FunctionAttribute and ParameterAttribute to the stored procedure function and directly access the strongly typed object from the results collection.

C. Apply the ResultTypeAttribute to the stored procedure function and directly access the strongly typed object from the results collection.
D. Apply the ParameterAttribute to the stored procedure function. Use the GetResult <TElement> method to obtain an enumerator of the correct type.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application uses the ADO.NET LINQ to SQL model to retrieve data from the database. The application will not modify retrieved dat a. You need to ensure that all the requested data is retrieved. You want to achieve this goal using the minimum amount of resources. What should you do?

A. Set ObjectTrackingEnabled to true on the DataContext class.
B. Set ObjectTrackingEnabled to false on the DataContext class.
C. Set DeferredLoadingEnabled to true on the DataContext class.
D. Set DeferredLoadingEnabled to false on the DataContext class.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use the ADO.NET Entity Framework to model your entities. You use Plain Old CLR Objects (POCO) entities along with snapshot-based change tracking. The code accesses the POCO entities directly. You need to ensure that the state manager synchronizes when changes are made to the object graph. Which ObjectContext method should you call?

A. Refresh
B. SaveChanges
C. DetectChanges
D. ApplyPropertyChanges

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. You use the ADO.NET Entity Framework to model your entities. You use ADO.NET self-tracking entities. You need to ensure that the change-tracking information for the self-tracking entities can be used to update the database. Which ObjectContext method should you call after changes are made to the entities?

A. Attach
B. Refresh
C. SaveChanges
D. ApplyChanges

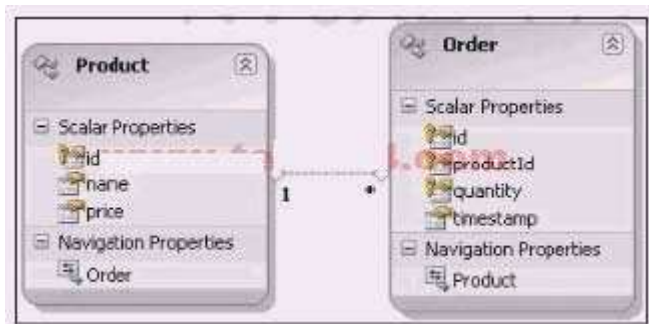**Correct Answer:** D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You create stored procedures by using the following signatures:

"CREATE procedure [dbo].[Product_Insert](@name varchar(50),@price float)
"CREATE procedure [dbo].[Product_Update](@id int, @name varchar(50), @price float)
"CREATE procedure [dbo].[Product_Delete](@id int)
"CREATE procedure [dbo].[Order_Insert](@productId int, @quantity int)
"CREATE procedure [dbo].[Order_Update](@id int, @quantity int,@originalTimestamp timestamp)
"CREATE procedure [dbo].[Order_Delete](@id int)

You create a Microsoft ADO.NET Entity Data Model (EDM) by using the Product and Order entities as shown in the exhibit. You need to map the Product and Order entities to the stored procedures. Which two procedures should you add to the @productId parameter? (Each correct answer presents part of the solution. Choose two.)

A. Product_Delete
B. Product_Update
C. Order_Delete
D. Order_Update

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use Plain Old CLR objects (POCO) to model your entities. The application communicates with a Windows Communication Foundation (WCF) Data Services service. You need to ensure that entities can be sent to the service as XML. What should you do?

A. Apply the virtual keyword to the entity properties.
B. Apply the [Serializable] attribute to the entities.
C. Apply the [DataContract(IsReference = true)] attribute to the entities.
D. Apply the [DataContract(IsReference = false)] attribute to the entities.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to manage Plain Old CLR Objects (POCO) entities. You create a new POCO class. You need to ensure that the class meets the following requirements: "It can be used by an ObjectContext. "It is enabled for change-tracking proxies. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Modify each mapped property to contain sealed and protected accessors.
B. Modify each mapped property to contain non-sealed, public, and virtual accessors.
C. Configure the navigation property to return a type that implements the ICollection interface.
D. Configure the navigation property to return a type that implements the IQueryable interface.
E. Configure the navigation property to return a type that implements the IEntityWithRelationships interface.

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to model entities. You need to create a database from your model. What should you do?

A. Run the edmgen.exe tool in FullGeneration mode.
B. Run the edmgen.exe tool in FromSSDLGeneration mode.
C. Use the Update Model Wizard in Visual Studio.
D. Use the Generate Database Wizard in Visual Studio. Run the resulting script against a Microsoft SQL Server database.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25
You use Microsoft Visual Studio 2010 and Microsoft.NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. You use the ADO.NET LINQ to Entity model to retrieve data from the database. You need to call a function that is defined in the conceptual model from within the LINQ to Entities queries. You create a common language runtime (CLR) method that maps to the function. What should you do next?

A. Declare the method as static.
B. Declare the method as abstract.
C. Apply the EdmFunctionAttribute attribute to the method.
D. Apply the EdmComplexAttribute attribute to the method.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
You use Microsoft Visual Studio 2010 and Microsoft. NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. You use Entity SQL of the ADO.NE Entity Framework to retrieve data from the database. You need to define a custom function in the conceptual model. You also need to ensure that the function calculates a value based on properties of the object. Which two XML element types should you use? (Each correct answer presents part of the solution. Choose two.)

A. Function
B. FunctionImport
C. Dependent
D. Association
E. DefiningExpression

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. You use the ADO.NET Entity Framework to model entities. You need to add a new type to your model that organizes scalar values within an entity. You also need to map stored procedures for managing instances of the type. What should you do?

A. "Add the stored procedures in the SSDL file along with a Function attribute. "Define a complex type in the CSDL file. "Map the stored procedure in the MSL file with a ModificationFunctionElement.
B. "Add the stored procedures in the SSDL file along with a Function attribute. "Define a complex type in the CSDL file. "Map the stored procedure in the MSL file with an AssociationEnd element.
C. "Use the edmx designer to import the stored procedures. "Derive an entity class from the existing entity as a complex type. "Map the stored procedure in the MSL file with an AssociationEnd element.
D. "Add the stored procedures in the SSDL file along with a Function attribute. "Derive an entity class from the existing entity as a complex type. "Map the stored procedure in the MSL file with a ModificationFunctionElement.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You deploy a Windows Communication Foundation (WCF) Data Service to a production server. The application is hosted by Internet Information Services (IIS). After deployment, applications that connect to the service receive the following error message: "The server encountered an error processing the request. See server logs for more details." You need to ensure that the actual exception data is provided to client computers. What should you do?

A. Modify the application's Web.config file. Set the value for the customErrors element to Off.
B. Modify the application's Web.config file. Set the value for the customErrors element to RemoteOnly.
C. Add the FaultContract attribute to the class that implements the data service.
D. Add the ServiceBehavior attribute to the class that implements the data service.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Microsoft ASP.NET application. You want to connect the application to a Microsoft SQL Server Express 2008 database named MyDatabase. The primary database file is named MyDatabase.mdf and it is stored in the App_Data folder. You need to define the connection string. Which connection string should you add to the Web.config file?

A. Data Source=localhost; Initial Catalog=MyDataBase; Integrated Security=SSPI; User Instance=True
B. Data Source=.\SQLEXPRESS; Initial Catalog=MyDataBase; Integrated Security=True; User Instance=True
C. Data Source=.\SQLEXPRESS; AttachDbFilename=|DataDirectory|\MyDatabase.mdf; Integrated Security=True; User Instance=True
D. Data Source=SQLEXPRESS; AttachDbFilename=|DataDirectory|\App_Data\MyDatabase.mdf; Integrated Security=SSPI; User Instance=True

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The application uses a Microsoft ADO.NET SQL Server managed provider. When a connection fails, the application logs connection information, including the full connection string. The information is stored as plain text in a .config file. You need to ensure that the database credentials are secure. Which connection string should you add to the .config file?

A. Data Source=myServerAddress; Initial Catalog=myDataBase; Integrated Security=SSPI; Persist Security Info=false;
B. Data Source=myServerAddress; Initial Catalog=myDataBase; Integrated Security=SSPI; Persist Security Info=true;
C. Data Source=myServerAddress; Initial Catalog=myDataBase; User Id=myUsername; Password=myPassword; Persist Security Info=false;
D. Data Source=myServerAddress; Initial Catalog=myDataBase; User Id=myUsername; Password=myPassword; Persist Security Info=true;

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application uses the ADO.NET Entity Framework to manage order data. The application makes a Web service call to obtain orders from an order-tracking system. You need to ensure that the orders are added to the local data store. Which method should you call on the ObjectContext?

A. Attach
B. AttachTo
C. AddObject
D. ApplyCurrentValues

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You manually create your own Context class named AdventureWorksDB that inherits from ObjectContext. You need to use AdventureWorksDB to invoke a stored procedure that is defined in the data source. Which method should you call?

A. Translate
B. ExecuteFunction
C. ExecuteStoreQuery
D. ExecuteStoreCommand

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to model entities. You create an entity as shown in the following code fragment.

<EntityType Name="ProductCategory">

```
<Key>
 <PropertyRef Name="ProductCategoryID" />
</Key>
<Property Name="ProductCategoryID" Type="int" Nullable="false" StoreGeneraedPattern="Identity" />
<Property Name="ParentProductCategoryID" Type="int" />
<Property Name="Name" Type="nvarchar" Nullable="false" MaxLength="50" />
...
</EntityType>
```

You need to provide two entity-tracking fields: "rowguid that is automatically generated when the entity is created "ModifiedDate that is automatically set whenever the entity is updated Which code fragment should you add to the .edmx file?

A. <Property Name="rowguid" Type="uniqueidentifier" Nullable="false" StoreGeneratedPattern="Computed"/>
   <Property Name="ModifiedDate" Type="timestamp" Nullable="false" StoreGeneratedPattern="Computed"/>
B. <Property Name="rowguid" Type="uniqueidentifier" Nullable="false" StoreGeneratedPattern="Identity"/>
   <Property Name="ModifiedDate" Type="timestamp" Nullable="false" StoreGeneratedPattern="Identity"/>
C. <Property Name="rowguid" Type="uniqueidentifier" Nullable="false" StoreGeneratedPattern="Identity"/>
   <Property Name="ModifiedDate" Type="timestamp" Nullable="false" StoreGeneratedPattern="Computed"/>
D. <Property Name="rowguid" Type="uniqueidentifier" Nullable="false" StoreGeneratedPattern="Computed"/>
   <Property Name="ModifiedDate" Type="timestamp" Nullable="false" StoreGeneratedPattern="Identity"/>

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Communication Foundation (WCF) Data Services service. The service connects to a Microsoft SQL Server 2008 database. The service is hosted by an Internet Information Services (IIS) 6.0 server. You need to ensure that applications authenticate against user information stored in the database before the application is allowed to use the service. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Configure IIS to require basic authentication.
B. Configure IIS to allow anonymous access.
C. Configure IIS to require Windows authentication.
D. Enable the WCF Authentication Service.
E. Modify the Data Services service to use a Microsoft ASP.NET membership provider.

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. You create classes by using LINQ to SQL based on the records shown in the exhibit. (Click the Exhibit button.) You need to create a LINQ query to retrieve a list of objects that contains the OrderID and CustomerID properties. You need to retrieve the total price amount of each Order record. What are two possible ways to achieve this goal (Each correct answer presents a complete solution. Choose two.)
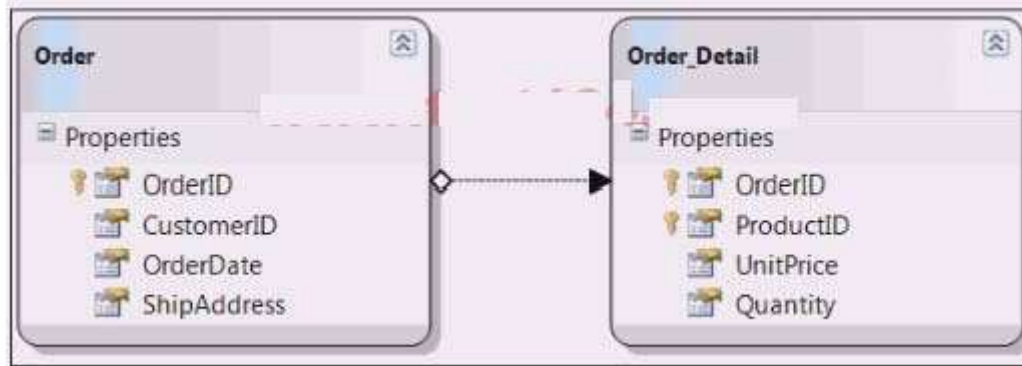
A. from details in dataContext.Order_Details
   group details by details.OrderID into g join order in dataContext.Orders on g.Key equals order.OrderID
   select new { OrderID = order.OrderID, CustomerID = order.CustomerID, TotalAmount = g.Sum(od =>
   od.UnitPrice * od.Quantity) }
B. dataContext.Order_Details.GroupJoin(dataContext.Orders, d => d.OrderID, o => o.OrderID, (dts, ord) =>
   new { OrderID = dts.OrderID, CustomerID = dts.Order.CustomerID, TotalAmount = dts.UnitPrice *
   dts.Quantity })
C. from order in dataContext.Orders
   group order by order.OrderID into g join details in dataContext.Order_Details on g.Key equals
   details.OrderID
   select new { OrderID = details.OrderID, CustomerID = details.Order.CustomerID, TotalAmount =
   details.UnitPrice * details.Quantity }
D. dataContext.Orders.GroupJoin(dataContext.Order_Details, o => o.OrderID, d => d.OrderID, (ord, dts) =>
   new { OrderID = ord.OrderID, CustomerID = ord.CustomerID, TotalAmount = dts.Sum(od => od.UnitPrice *
   od.Quantity) })

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The
application connects to a Microsoft SQL Server database. You use the following SQL statement to retrieve an
instance of a DataSet object named ds. SELECT CustomerID, CompanyName, ContactName, Address, City
FROM dbo.Customers You need to query the DataSet object to retrieve only the rows where the ContactName
field is not NULL. Which code segment should you use?

A. from row in ds.Tables[0].AsEnumerable()
   where (string)row["ContactName"] != null
   select row;
B. from row in ds.Tables[0].AsEnumerable()
   where row.Field <string>("ContactName") != null
   select row;
C. from row in ds.Tables[0].AsEnumerable()
   where !row.IsNull((string)row["ContactName"])
   select row;
D. from row in ds.Tables[0].AsEnumerable()
   where !Convert.IsDBNull(row.Field <string>("Region"))
   select row;

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. You need to ensure that the application calls a stored procedure that accepts a table-valued parameter. You create a SqlParameter object. What should you do next?

A. Set the SqlDbType of SqlParameter to Udt.
B. Set the SqlDbType of SqlParameter to Variant.
C. Set the ParameterDirection of SqlParameter to Output.
D. Set the SqlDbType of SqlParameter to Structured. Set the TypeName of SqlParameter to Udt.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Communication Foundation (WCF) Data Services service. You deploy the service to the following URL: http://contoso.com/ Northwind.svc. You want to query the WCF Data Services service to retrieve a list of customer objects. You need to ensure that the query meets the following requirements: "Only customers that match the following filter criteria are retrieved: City="Seattle" AND Level > 200. "Data is sorted in ascending order by the ContactName and Address properties. Which URL should you use for the query?

A. http: //contoso.com/Northwind.svc/Customers?City=Seattle & Level gt 200 & $orderby=ContactName,Address
B. http: //contoso.com/Northwind.svc/Customers?City=Seattle & Level gt 200 & $orderby=ContactName and Address
C. http: //contoso.com/Northwind.svc/Customers?$filter=City eq 'Seattle' and Level gt 200 & $orderby=ContactName,Address
D. http: //contoso.com/Northwind.svc/Customers?$filter=City eq 'Seattle' and Level gt 200 & $orderby=ContactName and Address

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Communication Foundation (WCF) Data Services service. You deploy the data service to the following URL: http://contoso.com/ Northwind.svc. You need to update the City property of the Customer record that has its ID value as 123. You also need to preserve the current values of the remaining properties. Which HTTP request should you use?

A. PUT /Northwind.svc/Customers(123) Host: contoso.com Content-Type: application/json { City: 'Seattle' }
B. PUT /Northwind.svc/Customers(123) Host: contoso.com Accept: application/json { City: 'Seattle' }

C. MERGE /Northwind.svc/Customers(123) Host: contoso.com Content-Type: application/json { City: 'Seattle' }
D. MERGE /Northwind.svc/Customers(123) Host: contoso.com Accept: application/json { City: 'Seattle' }

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 40
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The application uses DataContexts to query the database. You create a function that meets the following requirements: "Updates the Customer table on the database when a customer is marked as deleted. "Updates the related entries in other tables (CustomerAddress, CustomerContacts) by marking them as deleted. "Prevents consumer code from setting the Deleted column's value directly. You need to ensure that the function verifies that customers have no outstanding orders before they are marked as deleted. You also need to ensure that existing applications can use the update function without requiring changes in the code. What should you do?

A. Override the Delete operation of the DataContext object.
B. Override the Update operation of the DataContext object.
C. Modify the SELECT SQL statement provided to the DataContext object to use an INNER JOIN between the Customer and Orders tables.
D. Add new entities to the DataContext object for the Customers and Orders tables.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 41
You use Microsoft Visual Studio 2010 and the Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application uses DataContexts to query the database. You define a foreign key between the Customers and Orders tables in the database. You need to ensure that when you delete a customer record, the corresponding order records are deleted. You want to achieve this goal by using the minimum amount of development effort. What should you do?

A. Override the Delete operation of the customer entity.
B. Remove the foreign key between the Customers and Orders tables.
C. Use the ExecuteDynamicDelete method of the DataContext object.
D. Modify the foreign key between the Customers and Orders tables to enable the ON DELETE CASCADE option.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 42
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use the ADO.NET Entity Data Model (EDM) to define a Customer entity. You need to add a new Customer to the data store without setting all the customer's properties. What should you do?

A. Call the Create method of the Customer object.
B. Call the CreateObject method of the Customer object.
C. Override the Create method for the Customer object.
D. Override the SaveChanges method for the Customer object.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a multi-tier application. You use Microsoft ADO.NET Entity Data Model (EDM) to model entities. The model contains entities named SalesOrderHeader and SalesOrderDetail. For performance considerations in querying SalesOrderHeader, you detach SalesOrderDetail entities from ObjectContext. You need to ensure that changes made to existing SalesOrderDetail entities updated in other areas of your application are persisted to the database. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Re-attach the SalesOrderDetail entities.
B. Set the MergeOption of SalesOrderDetail to MergeOptions.OverwriteChanges.
C. Set the MergeOption of SalesOrderDetail to MergeOptions.NoTracking.
D. Call ObjectContext.ApplyCurrentValue.
E. Call ObjectContext.ApplyOriginalValue.

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to several SQL Server databases. You create a function that modifies customer records that are stored in multiple databases. All updates for a given record are performed in a single transaction. You need to ensure that all transactions can be recovered. What should you do?

A. Call the EnlistVolatile method of the Transaction class.
B. Call the EnlistDurable method of the Transaction class.
C. Call the Reenlist method of the TransactionManager class.
D. Call the RecoveryComplete method of the TransactionManager class.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to model entities. The application allows users to make changes while disconnected from the data store. Changes are submitted to the data store by using the

SubmitChanges method of the DataContext object. You receive an exception when you call the SubmitChanges method to submit entities that a user has changed in offline mode. You need to ensure that entities changed in offline mode can be successfully updated in the data store. What should you do?

A. Set the ObjectTrackingEnabled property of DataContext to true.
B. Set the DeferredLoadingEnabled property of DataContext to true.
C. Call the SaveChanges method of DataContext with a value of false.
D. Call the SubmitChanges method of DataContext with a value of System.Data.Linq.ConflictMode.ContinueOnConflict.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You use a TableAdapter object to load a DataTable object. The DataTable object is used as the data source for a GridView control to display a table of customer information on a Web page. You need to ensure that the application meets the following requirements: "Load only new customer records each time the page refreshes. "Preserve existing customer records. What should you do?

A. "Set the ClearBeforeFill property of the TableAdapter to false. "Use the Fill method of the TableAdapter.
B. "Set the ClearBeforeFill property of the TableAdapter to false. "Use the GetData method of the TableAdapter to create a new DataTable.
C. "Set the ClearBeforeFill property of the TableAdapter to true. "Use the Fill method of the TableAdapter to load additional customers.
D. "Set the ClearBeforeFill property of the TableAdapter to true. "Use the GetData method of the TableAdapter to create a new DataTable.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application stores user names and passwords in the database. You need to ensure that users cannot read passwords extracted from the database. What should you do?

A. Encrypt stored passwords by using the RC2CryptoServiceProvider class.
B. Encrypt stored passwords by using the TripleDESCryptoServiceProvider class.
C. Append a random salt to the password by using the RNGCryptoServiceProvider class. Encrypt stored passwords by using the RijndaelManaged class.
D. Append a random salt to the password by using the RNGCryptoServiceProvider class. Hash stored passwords by using the SHA1CryptoServiceProvider class.

Correct Answer: D
Section: (none)
Explanation

QUESTION 48
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server database. The application stores encrypted credit card numbers in the database. You need to ensure that credit card numbers can be extracted from the database. Which cryptography provider should you use?

A. DSACryptoServiceProvider
B. AESCryptoServiceProvider
C. MD5CryptoServiceProvider
D. SHA1CryptoServiceProvider

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 49
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Microsoft ASP.NET application. The application connects to a Microsoft SQL Server database. The application is hosted on a Web server along with other applications. You need to secure the transmission of data between the application and the database. You need to achieve this goal without affecting other applications. What should you do?

A. Encrypt the connection string.
B. Use encryption to store sensitive data in the database.
C. Use Secure Sockets Layer (SSL) to establish connections to the database.
D. Use Internet Protocol Security (IPSec) to secure the communication channel.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application uses the ADO.NET Entity Framework to model persistence-ignorant entities. The application operates in a disconnected mode. You need to ensure that changes made to local entities while the application is in the disconnected mode are correctly persisted. Which method should you call before persisting changes?

A. ObjectContext.Refresh
B. DataContext.AcceptAllChanges
C. ObjectStateEntry.AcceptChanges
D. ObjectStateEntry.SetModifiedProperty

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference: