Vendor: Microsoft

Exam Code: 70-516

Exam Name: TS: Accessing Data with Microsoft .NET Framework 4

Version: DEMO

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; }
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; }

Answer: B

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);
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");

Answer: D

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())
{ 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();

Answer: B

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.)

```
01AdventureWorksEntities context = New AdventureWorksEntities
(http://localhost:1234/AdventureWorks.svc );
03var q = from c in context.Customers
04where c.City == "London"
05orderby c.CompanyName
06select c;
```

You need to ensure that the application meets the following requirements: "Compares the current
values of unmodified properties with values returned from the data source. "Marks the property as
modified when the properties are not the same.
Which code segment should you insert at line 02?

A. context.MergeOption = MergeOption.AppendOnly;
B. context.MergeOption = MergeOption.PreserveChanges;
C. context.MergeOption = MergeOption.OverwriteChanges;
D. context.MergeOption = MergeOption.NoTracking;

Answer: B

QUESTION 5
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{
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)

Answer: D

QUESTION 6
You use Microsoft Visual Studio 2010, Microsoft Sync Framework, and Microsoft .NET
Framework 4 to create an application.
You have a ServerSyncProvider connected to a Microsoft SQL Server database. The database is
hosted on a Web server. Users will use the Internet to access the Customer database through the
ServerSyncProvider.
You write the following code segment. (Line numbers are included for reference only.)

```
01SyncTable customerSyncTable = new SyncTable("Customer");
02customerSyncTable.CreationOption = TableCreationOption.
UploadExistingOrCreateNewTable;
04customerSyncTable.SyncGroup = customerSyncGroup;
05 this.Configuration.SyncTables.Add(customerSyncTable);
```

You need to ensure that the application meets the following requirements:

```
"Users can modify data locally and receive changes from the server. "
```

Only changed rows are transferred during synchronization.
Which code segment should you insert at line 03?

A. customerSyncTable.SyncDirection = SyncDirection.DownloadOnly;
B. customerSyncTable.SyncDirection = SyncDirection.Snapshot;
C. customerSyncTable.SyncDirection = SyncDirection.Bidirectional;
D. customerSyncTable.SyncDirection = SyncDirection.UploadOnly;

Answer: C

QUESTION 7
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.

Answer: C

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 2008 database.
The database includes a table named dbo.Documents that contains a column with large binary
dat a.
You are creating the Data Access Layer (DAL).
You add the following code segment to query the dbo.Documents table. (Line numbers are
included for reference only.)

```
01public void LoadDocuments(DbConnection cnx)
02{
03var cmd = cnx.CreateCommand();
04cmd.CommandText = "SELECT * FROM dbo.Documents";
05...
06cnx.Open();
08ReadDocument(reader); }
```

You need to ensure that data can be read as a stream.
Which code segment should you insert at line 07?

A. var reader = cmd.ExecuteReader(CommandBehavior.Default);
B. var reader = cmd.ExecuteReader(CommandBehavior.SchemaOnly);
C. var reader = cmd.ExecuteReader(CommandBehavior.KeyInfo);
D. var reader = cmd.ExecuteReader(CommandBehavior.SequentialAccess);

Answer: D

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.
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);
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);

Answer: C

QUESTION 10
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 followin URL: http://contoso.com/Northwind.svc.
You add the following code segment. (Line numbers are included for reference only.)

```
01var uri = new Uri(@"http://contoso.com/Northwind.svc/");
02var ctx = new NorthwindEntities(uri);
03var categories = from c in ctx.Categories 04select c;
04foreach (var category in categories) {
05PrintCategory(category);
07foreach (var product in category.Products) {
09PrintProduct(product);
10}
11}
```

You need to ensure that the Product data for each Category object is lazy-loaded.
What should you do?

A. Add the following code segment at line 06.
   ctx.LoadProperty(category, "Products");
B. Add the following code segment at line 08.

```
ctx.LoadProperty(product, "*");
```
C. Add the following code segment at line 06.
```
var strPrdUri = string.Format("Categories({0})?$expand=Products", category.CategoryID);
var productUri = new Uri(strPrdUri, UriKind.Relative); ctx.Execute <Product>(productUri);
```
D. Add the following code segment at line 08.
```
var strprdUri= string.format("Products?$filter=CatgoryID eq {0}", category.CategoryID);
VarProdcutUri = new Uri(strPrd, UriKind.Relative);
ctx.Execute <Product>(productUri);
```

Answer: A

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.
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();

Answer: A

QUESTION 12
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"]);
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;

Answer: B

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. 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));
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)";

Answer: D

QUESTION 14
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application.
The application connects to a Microsoft SQL Server database and contains a LINQ to SQL data
model. The data model contains a function named createCustomer that calls a stored procedure.
The stored procedure is also named createCustomer. The createCustomer function has the
following signature.

```
createCustomer (Guid customerID, String customerName, String address1)
```

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

```
01CustomDataContext context = new CustomDataContext();
02Guid userID = Guid.NewGuid();
03String address1 = "1 Main Steet";
04String name = "Marc";
```

You need to use the createCustomer stored procedure to add a customer to the database.
Which code segment should you insert at line 05?

A. context.createCustomer(userID, customer1, address1)
B. context.ExecuteCommand("createCustomer", userID, customer1, address1);
   Customer customer = new Customer() { ID = userID, Address1 = address1, Name = customer1, };
C. context.ExecuteCommand("createCustomer", customer);

    Customer customer = new Customer() { ID = userID, Address1 = address1, Name = customer1, };
D. context.ExecuteQuery(typeof(Customer), "createCustomer", customer);

Answer: A

QUESTION 15
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();

Answer: B

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