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70-516

TS: Accessing Data with Microsoft .NET
Framework 4

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QUESTION 1

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 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; }

Answer: B

Question 2

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 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.)

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

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

1

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 4.0 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){
04       Console.WriteLine(String.Format("Order: {0} ", order.SalesOrderNumber));
05       foreach (SalesOrderDetail item in order.SalesOrderDetail){
06          Console.WriteLine(String.Format("Quantity: {0} ", item.Quantity));
07          Console.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

2

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 4.0 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.)

```
01 AdventureWorksEntities context = new
AdventureWorksEntities("http://localhost:1234/AdventureWorks.svc");
02 ...
03 var q = from c in context.Customers
04         where c.City == "London"
05         orderby c.CompanyName
06         select 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 4.0 to create an application.
You use the ADO.NET Entity Framework to model entities. You write the following code segment.

3