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# 70-523-VB

## Microsoft

*UPG-Transition MCPD.NET Frmwrk 3.5 Web Dev to 4 Web Dev*

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**QUESTION: 1**

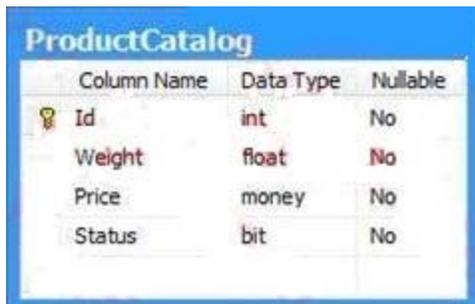
You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The database includes a database table named ProductCatalog as shown in the exhibit. (Click the Exhibit button.)

You add the following code segment to query the first row of the ProductCatalog table. (Line numbers are included for reference only.)

```
01 using (var cnx = new SqlConnection(connString))
02 {
03     var command = cnx.CreateCommand();
04     command.CommandType = CommandType.Text;
05     command.CommandText = "SELECT TOP 1 * FROM dbo.ProductCatalog";
06     cnx.Open();
07     var reader = command.ExecuteReader();
08     if (reader.Read()) {
09         var id = reader.GetInt32(0);
10
11         reader.Close();
12     }
13 }
```

You need to read the values for the Weight, Price, and Status columns. Which code segment should you insert at line 10?

Exhibit:



Column Name	Data Type	Nullable
Id	int	No
Weight	float	No
Price	money	No
Status	bit	No

- A. var weight = reader.GetDouble(1);  
var price = reader.GetDecimal(2);  
var status = reader.GetBoolean(3);
- B. var weight = reader.GetDecimal(1);  
var price = reader.GetFloat(2);  
var status = reader.GetByte(3);
- C. var weight = reader.GetDouble(1);  
var price = reader.GetFloat(2);  
var status = reader.GetBoolean(3);
- D. var weight = reader.GetFloat(1);

```
var price = reader.GetDouble(2);  
var status = reader.GetByte(3);
```

**Answer:** A

**QUESTION: 2**

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 data. 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();  
07  
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: 3**

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Communication Foundation (WCF) Data Services service. You discover that when an application submits a PUT or DELETE request to the Data Services service, it receives an error. You need to ensure that the application can access the service. Which header and request type should you use in the application?

- A. an X-HTTP-Method header as part of a POST request

- B. an X-HTTP-Method header as part of a GET request
- C. an HTTP ContentType header as part of a POST request
- D. an HTTP ContentType header as part of a GET request

**Answer:** A

**QUESTION: 4**

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.

**Answer:** B

**QUESTION: 5**

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 to entities while disconnected from the central data store. You need to ensure that when the user connects to the central data store and retrieves new data, the application meets the following requirements:

Changes made to the local data store in disconnected mode are preserved.

Entities that have already been loaded into the local data store, but have not been modified by the user, are updated with the latest data.

What should you do?

- A. Call the query's Execute method by using the MergeOptions.AppendOnly option.
- B. Call the query's Execute method by using the MergeOptions.OverwriteChanges option.
- C. Call the Refresh method ofObjectContext by using the RefreshMode.StoreWins option.
- D. Call the Refresh method ofObjectContext by using the RefreshMode.ClientWins method.

**Answer:** D

**QUESTION: 6**

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. You are creating the data layer of the application. You write the following code segment. (Line numbers are included for reference only.)

```
01 public static SqlDataReader GetDataReader(string sql){
02     SqlDataReader dr;
03
04     return dr;
05 }
```

You need to ensure that the following requirements are met:

- The SqlDataReader returned by the GetDataReader method can be used to retrieve rows from the database.
- SQL connections opened within the GetDataReader method will close when the SqlDataReader is closed. Which code segment should you insert at line 03?

- A. 

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

```
SqlConnection cnn=new SqlConnection(strCnn); SqlCommand cmd =new
SqlCommand(sql, cnn);cnn.Open();
try {
    dr = cmd.ExecuteReader();
```

```

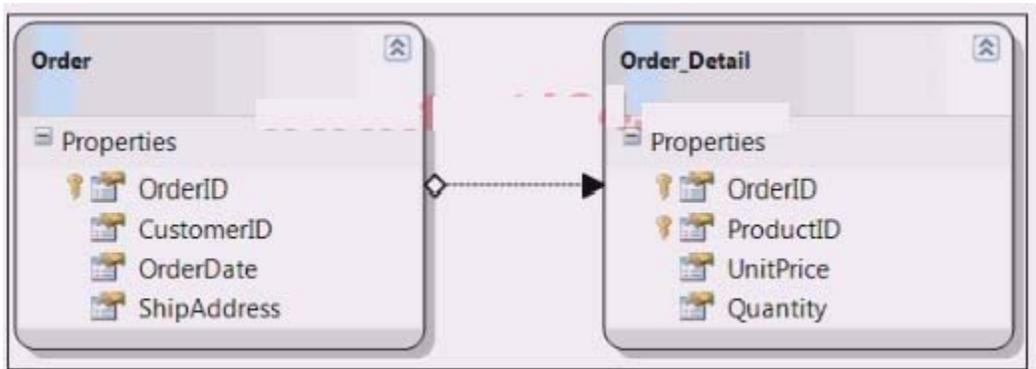
}
finally {
    cnn.Close();
}
C.    SqlConnection cnn=new SqlConnection(strCnn); SqlCommand cmd =new
SqlCommand(sql, cnn); cnn.Open();
try {
    dr = cmd.ExecuteReader();
    cnn.Close();
}
catch {
    throw;
}
D.    SqlConnection cnn=new SqlConnection(strCnn); SqlCommand cmd =new
SqlCommand(sql, cnn);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

```

**Answer:** D

**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 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) } )

**Answer:** A. D

**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;

**Answer: B**

**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 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);
}}
finally { sqltran.commit( );}
D. catch (Exception ex) { sqlTran.Rollback(); Trace.WriteLine(ex.Message);
}
finally {
try {
sqltran.commit( );
} catch (Exception exRollback) { Trace.WriteLine(excommit.Message); }}

```

**Answer:** B

**QUESTION:** 10

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application contains the following code segment. (Line numbers are included for reference only.)

```

01 class DataAccessLayer
02 {
03     private static string connString;
04
05     ...
06     public static DataTable GetDataTable(string command){
07
08         ...
09     }
10 }

```

You need to define the connection life cycle of the DataAccessLayer class. You also need to ensure that the application uses the minimum number of connections to the database. What should you do?

A. Insert the following code segment at line 04.

```
private static SqlConnection conn = new SqlConnection(connString);
```



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