

DotNet - WinForms - DQ - S1 - Day 1

. Match the following items.

- a) Partial Classes
- b) MDI Applications
- c) ClickOnce Deployment
- d) PerformanceCounter

- 1) Checks for newer versions and automatically replaces any updated files.
- 2) Splits a single source code into more than one source code.
- 3) Children typically share menu bar, toolbar and other parts of the parent's interface.
- 4) GUI Component used for implementing customized performance monitoring in Windows Based Forms Applications.

- 1). a - 3, b - 2, c - 4, d - 1
- 2). a - 2, b - 4, c - 3, d - 1
- 3). **a - 2, b - 3, c - 1, d - 4**
- 4). None of the above

Hari is creating a MDI Application. He wants to align all the child forms in a cascaded fashion. Which one of the following can do it?

- 1). **this.LayoutMdi(MdiLayout.Cascade);**
- 2). this.ArrangeMDI (MdiArrange.Cascade);
- 3). this.AlignMDI (MdiAlign.Cascade);
- 4). this.PutMDI (MdiPut.Cascade);

As a general rule, which of the following attribute needs to be used along with a Main() method in Windows Program?

- 1). [MTAThread]
- 2). **[STAThread]**
- 3). Does not require any attribute.
- 4). None of the above

Which of the following control you will use for adding menus to your Form?

- 1). MenuSet
- 2). **MenuStrip**
- 3). MenuGroup
- 4). MenuLine

Which of the following statement will load the Form1 when the application starts?

- 1). **Application.Run(new Form1())**

- 2). void Main()
- 3). Dispose(bool)
- 4). Application.Start()

Which of the following are true with reference to ClickOnce Deployment?

- a. Its a Deployment technology that allows you to create self-updating Windows-based applications that can be installed and run with minimal user interaction.
- b. It can not run in an offline mode and requires installations to be done on an end user's computer.
- c. ClickOnce applications are not self-updating and required user intervention to check for newer versions as they become available.
- d. A ClickOnce application can be installed on an end user's computer and run locally even when the computer is offline.

- 1). **a,d are True**
- 2). a, b, c,d are True
- 3). b, c are True
- 4). None of the above

What is the default event for a ComboBox?

- 1). **SelectedIndexChanged**
- 2). Click
- 3). DoubleClick
- 4). KeyPress

There is a Menu Item called as File. You have added some Menu Items under File. How will you add separator between the menuitems under File?

- 1). **File.MenuItems.Add("-");**
- 2). File.MenuItems.Add("&");
- 3). File.MenuItems.Add(Separator);
- 4). File.MenuItems.Add("+");

A _____ dialog box does not allow the user to switch the focus back and forth between itself and other windows.

- 1). **modal**
- 2). modeless
- 3). predefined
- 4). custom

Which of the following properties of the Form required to be set to True for representing the respective Form as an MDI Parent Form?

- 1). ActiveForm = true;
- 2). MDIParent = true;
- 3). **IsMDIContainer = true;**

4). None of the above

DotNet - WPF - DQ - S1 - Day 1

The .NET Framework 3.0 _____ is the WPF version of an ASP.NET web application, with a limited amount of WPF namespaces and functionality available to it, because of the browser's security access limitations on the client.

- 1). Windows Application
- 2). Service Library Application
- 3). **XAML Browser Application (XBAP)**
- 4). None of the above

Select the correct code snippet to create a Button that has a red text and a Blue Background, as well as text specified as Content:

- 1). **<Button Background="Blue" Foreground="Red" Content="This is a button"/>**
- 2). <Button Background="Red" Foreground="Blue" Content="This is a button"/>
- 3). <Button Backcolor="Blue" Forecolor="Red" Content="This is a button"/>
- 4). None of these

Refer the XAML markup file called App.xaml.

```
<Application
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  StartupUri="Login.xaml">
</Application>
```

What is this code snippet doing?

- 1). **This file defines a WPF application, and is also used to specify the UI (Login.xaml) to automatically show when the application starts.**
- 2). This file defines a WPF Page, with the name Login.xaml as a startup Page.
- 3). This file defines a WPF application, and is also used to create the UI (Login.xaml)
- 4). None of these

Look at the following XAML code.

```
<Grid>
  <Grid.Resources>
    <LinearGradientBrush x:Key="MyBrush">
      <GradientStop Color="Green" Offset="0" />
      <GradientStop Color="Red" Offset="1" />
    </LinearGradientBrush>
  </Grid.Resources>
</Grid>
```

If we want to add a Button on the Grid, having Background property set to the markup extension defined in the above code, what would be the correct way to do this?

- 1). <Button Background="{MyBrush}">Click Me</Button>
- 2). <Button StaticResource="{ Background MyBrush}">Click Me</Button>
- 3). **<Button Background="{StaticResource MyBrush}">Click Me</Button>**
- 4). None of the above

Select the correct XAML code snippet to Add a Button on a Window with a StackPanel Layout.

- 1). StackPanel>
 <Button ="Click Me"/>
</StackPanel>
- 2). <StackPanel>
 <Button Text="Click Me"/>
</StackPanel>
- 3). **<StackPanel>
 <Button Content="Click Me"/>
</StackPanel>**
- 4). <Panel>
 <Button Content="Click Me"/>
</Panel>

Look at the following XAML code.

```
<Button MinWidth="75" Margin="10">  
  <Button.Style>  
    <Style TargetType="{x:Type Button}">  
      <Style.Triggers>  
        <Trigger Property="IsMouseOver" Value="True">  
          <Setter Property="Foreground" Value="Blue"/>  
        </Trigger>  
      </Style.Triggers>  
    </Style>  
  </Button.Style>  
  OK  
</Button>
```

What is the incorrect statement with respect to the above code?

- 1). The Property Trigger attaches the MouseOver Event with the Button.
- 2). When the Mouse is hovered over the Button, The foreground color of the Button will Change to Blue.
- 3). **We will have to define another Trigger to Change the color back to original when the mouse leaves the Button**
- 4). With Property triggers, we do not need to write any other script when the associated event takes

In XAML, you can turn any attribute (property on the class) into a child element by using the following pattern:

- 1). **ElementName.AttributeName**
- 2). ElementName:AttributeName
- 3). <Element Attribute="value">
- 4). None of these

A Page has to be created with the following specifications:

- i. The title bar of the browser is "Expenselt".
- ii. The width of the browser is 550 device-independent pixels.
- iii. The height of the browser is 380 device-independent pixels.
- iv. The title of the page is "Expenselt - Home".

What is the correct XAML code snippet for the same?

- 1). <Window
 xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
 xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
 x:Class="Expenselt.HomePage"
 WindowTitle="Expenselt"
 Title="Expenselt - Home"
 WindowWidth="550" WindowHeight="380">
</Window>
- 2). <Page
 xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
 xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
 x:Class="Expenselt.HomePage"
 WindowTitle="Expenselt - Home"
 Title="Expenselt"
 WindowWidth="550" WindowHeight="380">
</Form>
- 3). **<Page
 xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
 xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
 x:Class="Expenselt.HomePage"
 WindowTitle="Expenselt"
 Title="Expenselt - Home"
 WindowWidth="550" WindowHeight="380">
 </Page>**

<Button> Submit Data <Button>

The "Submit Data" in the above code is referred as?

- 1). Text
- 2). **Content**
- 3). Caption
- 4). None of these

Refer the code below:

```
<Grid Margin="10">
    <Grid.ColumnDefinitions>
        <ColumnDefinition />
    </Grid.ColumnDefinitions>
    <Grid.RowDefinitions>
        <RowDefinition Height="Auto" />
        <RowDefinition />
        <RowDefinition Height="Auto" />
    </Grid.RowDefinitions>
</Grid>
```

Select the statement which is not true with respect to the above code.

- 1). The above XAML markup creates a single-column table
- 2). **The table has one row and a 10-pixel margin**
- 3). The table is added to the Grid
- 4). This table within the Grid Layout can be added to a Page.

DotNet - WPF - DQ - S1 - Day 2

With the Binding class, you can configure a number of binding options.

Match the following options of Binding class with respect to their appropriate usage.

Set A

1. Source
2. RelativeSource
3. ElementName
4. Path
5. XPath
6. Mode

Set B

a. With RelativeSource, you can specify the source in relation to the target object.

This is useful to display error messages when the source of the error comes from the same control

b. The mode defines the direction for the binding.

- c. With the Source property, you define the source object for data binding.
- d. If the source is a WPF element, you can specify the source with the ElementName property.
- e. With an XML data source, you can define an XPath query expression to get the data for binding.
- f. With the Path property, you specify the path to the source object.

1). **1-c, 2-a, 3-d, 4-f, 5-e, 6-b**

2). 1-a, 2-c, 3-d, 4-f, 5-e, 6-b

3). 1-a, 2-c, 3-d, 4-e, 5-f, 6-b

4). 1-c, 2-a, 3-b, 4-e, 5-f, 6-d

The ____ property added to Binding markup extension can be used to specify an amount of time to pass after the property changes on the target before the source updates.

1). ElementName

2). Path

3). DataContext

4). **Delay**

Select which statements are true with respect to Routed Events:

1). **Routed events enable an element to handle an event that was raised by a different element, as long as the elements are connected through an element tree relationship.**

2). **When specifying event handling with a XAML attribute, the routed event can be listened for and handled on any element, including elements that do not list that particular event in the class members table.**

3). A particular event feature that is unique and fundamental to WPF is a routed event, which is available in .NET Framework 2.0.

4). None of the above statements are True.

Which WPF feature allows you to sort the collection when an item in a collection is updated at runtime?

1). ObservableCollection

2). **Live Shaping**

3). INotifyPropertyChanged

4). Data Binding

Rajeev wants to define a Border style for a Page as a keyed Resource in a resource dictionary. Which is the correct code snippet to achieve the same?

- 1). `<Window.Resources>`
`<SolidColorBrush x:Key="MyBrush" Color="Gold"/>`
`<Style TargetType="Bordercolor" x:Key="PageBackground">`
`<Setter Property="Background" Value="Blue"/>`
`</Style>`
`...`
`</Window.Resources>`
- 2). **`<Page.Resources>`**
`<SolidColorBrush x:Key="MyBrush" Color="Gold"/>`
`<Style TargetType="Border" x:Key="PageBackground">`
`<Setter Property="Background" Value="Blue"/>`
`</Style>`
`...`
`</Page.Resources>`
- 3). `<Page.Resources>`
`<SolidColorBrush Key="MyBrush" Color="Gold"/>`
`<Style TargetType="BorderColor" Key="PageBackground">`
`<Setter Property="Background" Value="Blue"/>`
`</Style>`
`...`
`</Page.Resources>`
- 4). `<Page.Resources>`
`<SolidColorBrush Key="MyBrush" Color="Gold"/>`
`<Style TargetType="Border" Key="PageBackground">`
`<Setter Property="Background" Value="Blue"/>`
`</Style>`

Which of the following interface enables binding to objects, the structure of which is not known until runtime?

- 1). `IComponent`
- 2). `ICustomProvider`
- 3). `INotifyPropertyChanged`
- 4). **`ICustomTypeProvider`**

On a Window, a Button is added with the following code:

```
<Button Click="ClickHandler" >Click Me!</Button>
```

The event name and the name of the handler to use are specified in the markup. Identify the correct code snippet that implements event handler in the code-behind to change the background color of the Button.

- 1). `public partial class MyPageCode`
`{`
`void ClickHandler(object sender, RoutedEventArgs e)`
`{`
`Button b = new Button;`
`b.Background = Brushes.Red;`
`}`
`}`
- 2). `public partial class MyPageCode`
`{`
`void ClickHandler(object sender, RoutedEventArgs e)`
`{`
`sender.Background = Brushes.Red;`
`}`
`}`
- 3). **`public partial class MyPageCode`**
`{`
`void ClickHandler(object sender, RoutedEventArgs e)`
`{`
`Button b = e.Source as Button;`
`b.Background = Brushes.Red;`
`}`
`}`
- 4). None of the above

Which of the following are correct w.r.t. Routed Events?

- 1). **It allows a click that begins in a button to rise up to that button's container and then to the containing page.**
- 2). PreviewMouseLeftButtonDown is a Bubbling event
- 3). **It allows you to centralize the event handling logic**
- 4). **WPF supports bubbling and Tunelling of events**

Match the following w.r.t. Binding Modes in Data Binding:

Set A
One Time
One Way
Two Way

Set B

- a. Changes to the source object can also propagate to the target

- b. Updates the target property when the binding is created
- c. Updates either the target or the source object when either change

1). **1-b, 2-a, 3-c**

2). 1-a, 2-b, 3-c

3). 1-c, 2-b, 3-a

4). 1-b, 2-c, 3-a

Select which statements are True w.r.t. the code snippet.

```
<StackPanel>
  <Border Style="{StaticResource PageBackground}">
...
  </Border>
</StackPanel>
```

1). **The above example sets the value of the Style property using attribute syntax**

2). The above example sets the value of the Style property using Property Element syntax

3). **The attribute references a particular markup extension, StaticResource, which returns a reference to a style that was previously instantiated as a keyed resource in a resource dictionary**

4). This is an invalid syntax, as you can not refer the StaticResource markup extension with Style.

DotNet - ADO.Net - DQ - S1 - Day 1

Which of the following is/are feature/s of ADO.NET ?

1). ADO.NET applications transmit data in XML format

2). It uses disconnected recordsets.

3). An ADO.NET application can be transformed and scaled to more number of tiers

4). **All the above**

Consider the following code snippet:

```
SqlConnection conn=new SqlConnection(@"Server=192.168.67.178;User Id=sa; Password=sa; ")
;
```

Which parameter will complete the connection string?

1). **Database**

2). Security

3). Data source

4). Name

Predict the output of the given code:

```
MyConnection.Open();
SqlCommand MyCommand = new SqlCommand("SELECT EmployeeID, FirstName FROM Employees", MyConnection);
SqlDataReader MyDataReader = MyCommand.ExecuteReader(CommandBehavior.CloseConnection);

while (MyDataReader.Read())
{
    Console.WriteLine(MyDataReader[0] + " " + MyDataReader[1]);
}
Console.ReadLine();
MyConnection.Close();
```

Assumption - The connection object has already been created and initialized with proper information.

1). Error

2). **1 Davolio**

2 Fuller

3 Levering

4 Peacock

5 Buchanan

6 Suyama

7 King

8 Callahan

9 Dodsworth

3). 1 Davolio Nancy

2 Fuller Andrew

3 Levering Janet

4 Peacock Margaret

5 Buchanan Steven

6 Suyama Michael

7 KingRobert

8 Callahan Laura

9 Dodsworth Anne

Which of the following are main components of ADO.NET Connected architecture?

1). **DataReader**

2). **.NET Data Provider**

3). DataAdapter

4). DataSet

Rearrange the Database operation flow in disconnected architecture.

- 1). 1. Open Connection
2. Update data source with DataSet changes
3. Process the DataSet
4. Close Connection
5. Open Connection
6. Fill the DataSet
7. Close Connection
- 2). 1. Open Connection
2. Process the DataSet
3. Close Connection
4. Fill the DataSet
5. Update data source with DataSet changes
6. Open Connection
7. Close Connection
- 3). **1. Open Connection**
2. Fill the DataSet
3. Close Connection
4. Process the DataSet
5. Open Connection
6. Update data source with DataSet changes
7. Close Connection
- 4). 1. Open Connection
2. Fill the DataSet
3. Process the DataSet
4. Update data source with DataSet changes
5. Close Connection

Which of the following are valid Data Access techniques?

- 1). **ISAM**
- 2). **OleDb**
- 3). RANDOM
- 4). None of the above

From the given code snippets, select the correct code snippet to add parameter to SqlCommand object

Assumption - The connection object has already been created and initialized with proper information.

- 1). string Query = "Select FirstName From Employee where LastName = @name";
SqlCommand cmd = new SqlCommand(Query);
SqlParameter Param1 = cmd.Parameters.Add("@name",15,SqlDbType.NVarChar);
Param1.Value = "John";
- 2). string Query = "Select FirstName From Employee where LastName = @name";
SqlCommand cmd = new SqlCommand(Query,con);
SqlParameters Param1 = cmd.Parameter.Add("name",15,SqlDbType.NVarChar);
Param1.Value = "John";

3). **string Query = "Select FirstName From Employee where LastName = @name";
SqlCommand cmd = new SqlCommand(Query,con);
SqlParameter Param1 = cmd.Parameters.Add("@name", SqlDbType.NVarChar, 15);
Param1.Value = "John";**

4). None of the above

Justify the given below statement with proper reason.

Do not use connection pooling if integrated security is utilized.

1). **Poor Performance**

2). Security Threat

3). Easy availability of connections

4). None of the above

Which of the following are correct overloaded constructors of a SqlCommand Class?

1). **1. SqlCommand()**

2). **SqlCommand(String commandText)**

3). **SqlCommand(String commandText,SQLConnection con)**

4). **SqlCommand(String commandText, SQLConnection con,SQLTransaction trans)**

2). 1. SqlCommand(string commandText)

2. SqlCommand(String commandType)

3. SqlCommand(String commandText,SQLConnection con)

4. SqlCommand(String commandText, SQLConnection con,SQLTransaction trans)

3). 1. SqlCommand(string commandText)

2. SqlCommand(String commandType)

3. SqlCommand(String commandText,SQLConnection con)

4. SqlCommand(String commandText,SQLConnection con,string commandType)

4). None of the above

Rohan has created an E-Library application that needs to only read the data.

Which of the following objects can be used by Rohan?

1). DataSet

2). DataAdpater

3). **DataReader**

4). DataRelation

DotNet - ADO.Net - DQ - S1 - Day 2

Which class represents an ordered collection of nodes?

- 1). XMLTextReader
- 2). XMLNode
- 3). **XMLNodeList**
- 4). XMLNamedNodeMap

Which of the following methods of DataRow object takes the row out of edit mode as it implicitly calls EndEdit()?

- 1). **AcceptChanges()**
- 2). CancelChanges()
- 3). SaveChanges()
- 4). RejectChanges()

Which of the following methods returns the XML Schema for the XML representation of the data stored in the DataSet?

- 1). ReadXMLSchema()
- 2). WriteXmlSchema()
- 3). **GetXmlSchema()**
- 4). ReadSchema()

Identify the correct code snippet to add columns to DataTable:

1). **DataTable ordersTable = new DataTable("Orders");
ordersTable.Columns.Add("OrderID", typeof(string)).MaxLength = 50;
ordersTable.Columns.Add("OrderQuantity", typeof(int));**

2). `DataTable ordersTable = new DataTable("Orders");
DataColumn col = new DataColumn();
col.ColumnName = "MyTextColumn";
col.DataType = typeof(System.String);`

3). **DataTable ordersTable = new DataTable("Orders");
DataColumn col = new DataColumn();
col.ColumnName = "MyTextColumn";
col.DataType = typeof(System.String);
ordersTable.Columns.Add(col);**

4). None of the above

Consider the following code snippet:

```
ds._____("cust.xsd");  
_____.ReadXml("cust.xml");
```

Which of the following options will correctly complete the code?

- 1). **ReadXMLSchema**
- 2). ReadXML.Schema
- 3). **ds.Tables["cust"]**
- 4). Tables["cust"]

Which of the following properties of ForeignKeyConstraint sets the value DBNull for DeleteRule and UpdateRule?

- 1). SetDefault
- 2). **SetNull**
- 3). SetDBNull
- 4). SetDefaultNull

Select the correct sequence of steps written in following code snippet so that it can successfully write the DataSet data into an XML file on disk.

Assumption - The connection object has already been created and initialized with proper information.

- 1). 1. string qry = @"select productname,unitprice from products";
2. da.SelectCommand = new SqlCommand(qry, conn);
3. SqlDataAdapter da = new SqlDataAdapter();
4. da.Fill(ds, "products");
5. DataSet ds = new DataSet();
6. ds.WriteXml("table.xml");
- 2). 1. string qry = @"select productname,unitprice from products";
2. da.SelectCommand = new SqlCommand(qry, conn);
3. da.Fill(ds, "products");
4. SqlDataAdapter da = new SqlDataAdapter();
5. ds.WriteXml("table.xml");
6. DataSet ds = new DataSet();
- 3). **1. string qry = @"select productname,unitprice from products";
2. SqlDataAdapter da = new SqlDataAdapter();
3. da.SelectCommand = new SqlCommand(qry, conn);
4. DataSet ds = new DataSet();
5. da.Fill(ds, "products");
6. ds.WriteXml("table.xml");**
- 4). None of the above

Which of the following class extends the XmlDocument and allows structured data to be stored, retrieved, and manipulated through a relational DataSet?

- 1). **XMLDataDocument**
- 2). XmlDocument
- 3). XMLWriter
- 4). XMLDMLDocument

Which of the following read mode is used with ReadXml() to identify current and original versions of data elements?

- 1). **DiffGram**
- 2). Auto
- 3). IgnoreSchema
- 4). ReadChanges

Which of the following methods can be used to put the DataRow into edit mode?

- 1). **BeginEdit()**
- 2). StartEdit()
- 3). SetEditMode()
- 4). DataRow cannot be explicitly put into editmode

DotNet - ADO.Net - DQ - S1 - Day 3

Match the following from the given below:

- a. Connection Pooling
- b. Data Access Components
- c. Presentation Layer
- d. DataReader

1. Data Access should be quick and in forward-only manner
2. Is the layer that provides an interface for the end user to your application
3. Centralizes the data access functionality
4. Is a container of open and reusable connections

- 1). a-3, b-4, c-1, d-2
- 2). a-2, b-1, c-3, d-4
- 3). a-1, b-4, c-3, d-2
- 4). **a-4, b-3, c-2, d-1**

Fill in the blanks:

_____ and _____ assist in data manipulation, data transformation, and data access within the layer.

- 1). DataAccess,Utilities
- 2). HelperFunctions,Libraries
- 3). **HelperFunctions,Utilities**
- 4). None of the above

Which of the following are the correct guidelines used while designing DAL?

- 1). **Transactional Integrity**
- 2). Scalability
- 3). **Security**
- 4). **Maintainability**

Which of the following Layers will have some generic methods and will interact with your data?

- 1). **Data Layer**
- 2). Business Rules Layer
- 3). Database Layer
- 4). Presentation Layer

In ADO.Net 4.5, we can use _____ property of the SqlConnection class to store the username and password outside of the connection string.

- 1). ConnectionString
- 2). **Credentials**
- 3). Security
- 4). UserName

Which of the following parameter of ExecuteReader() improves the performance of read operations on the rows which are having columns with large binary and string values?

- 1). **CommandBehavior.SequentialAccess**
- 2). CommandBehavior.RandomAccess
- 3). CommandBehavior.CloseConnection
- 4). None of the above

State - True/False:

A Data Access Layer is a set of classes and functions for reading from and writing to a database or other data store.

- 1). **TRUE**
- 2). FALSE

ADO.Net 4.5 introduces _____ and _____ modifiers for asynchronous processing.

- 1). delegate
- 2). **async**
- 3). IAsyncResult
- 4). **await**

State - True/False

Update and Fill method of Data Adapter automatically opens and closes the connection.

- 1). FALSE
- 2). **TRUE**

From the following options, select the appropriate one about when DataSet should be used in an application.

- a. Navigating between multiple discrete results
 - b. Result of query is too large to fit in memory
 - c. Performing data manipulation from multiple sources
 - d. To improve performance for tasks such as Sorting, Filtering in the DataSet
 - e. Data Access should be quick and in forward-only manner
- 1). a, b, c, d
 - 2). **a, c, d**
 - 3). b, c
 - 4). b, c, e

DotNet - LINQ and Entity FW - DQ - S1 - Day 1

Linq to ADO.Net API is defined in which namespace:

- 1). System.Data
- 2). System.Entity
- 3). **System.Data.Linq**
- 4). System.Xml

Neeta needs to ensure that for Entity Framework application proper naming convention should be followed.

Which feature of Entity Framework she should use?

- 1). Lazy Loading
- 2). **Pluralization**
- 3). Code First Approach
- 4). Use Complex Types

Which statements are true about Complex Types?

- 1). **A complex type can contain scalar properties or other complex types, but they cannot have navigation properties or entity collections**
- 2). A complex type can be an entity key.
- 3). **Complex types allow you to group several properties into a single type for a property on an entity.**
- 4). A property whose type is a complex type can be null

_____ returns entities which are defined in the conceptual model.

- 1). Linq to SQL
- 2). **Linq to Entities**
- 3). Entities to SQL
- 4). Linq to XML

Which of the following query will return a count of the even numbers in the source array?

- 1).

```
var evenNumQuery = from num in numbers
                    where (num % 2) != 0
                    select num;
int evenNumCount = evenNumQuery.Count();
```
- 2).

```
var evenNumQuery = from num in numbers
                    where (num % 2) == 1
                    select num;
int evenNumCount = evenNumQuery.Count();
```
- 3).

```
var evenNumQuery = from num in numbers
                    where (num % 2) == 0
                    select num;
int evenNumCount = numbers.Count();
```
- 4). **```
var evenNumQuery = from num in numbers
 where (num % 2) == 0
```**

```
 select num;
int evenNumCount = evenNumQuery.Count();
```

Which of the following query will return a query result in ascending order?

- 1). var queryCustomer = from cust in customers  
 where cust.City == "Mumbai"  
 orderby ascending  
 select cust;
- 2). var queryCustomer = from cust in customers  
 where cust.City == "Mumbai"  
 select cust ascending;
- 3). **var queryCustomer = from cust in customers  
 where cust.City == "Mumbai"  
 orderby cust.Name ascending  
 select cust;**
- 4). var queryCustomer = from cust in customers  
 where cust.City == "Mumbai"  
 orderby cust.Name

\_\_\_\_\_ Model consists of the information about how the conceptual model is mapped to storage model.

- 1). **Logical**
- 2). Storage
- 3). Conceptual
- 4). EDM

Given : int[] numbers = new int[7] { 0, 1, 2, 3, 4, 5, 6 };

Which of the following is a correct LINQ Query to find even numbers?

- 1). select num;  
 from num in numbers  
 where (num % 2) == 0
- 2). from num in numbers  
 where (num % 2) == 0  
 select num;
- 3). where (num % 2) == 0  
 var numQuery = from num in numbers  
 select num;

- 4). **var numQuery = from num in numbers  
                    where (num % 2) == 0  
                    select num;**

The Entity Data Model conceptual mapping is stored in:

- 1). Store schema definition language
- 2). Mapping specification language
- 3). **Conceptual Schema definition language**
- 4). Entity Schema definition language

Consider the following snippet:

```
var qry=from a in authors
 where a.year=1985
 select a;
```

What is the datatype of qry?

- 1). Queryable<Author>
- 2). **IQueryable<Author>**
- 3). Enumerable<Author>
- 4). IEnumerable<Author>

## DotNet - LINQ and Entity FW - DQ - S1 - Day 2

State whether True or False:

The LINQ to Objects API is defined in the System.Linq namespaces inside System.Core.dll

- 1). **TRUE**
- 2). FALSE

What will happen if you are using the Single method & no element satisfies the predicate condition?

- 1). Null value will be returned
- 2). Zero value will be returned
- 3). **Exception will be thrown**
- 4). One single value will be returned

State whether True or False:

An Entity Framework is an ORM framework for .NET

- 1). FALSE

- 2). **TRUE**
- 3). None of the above

The Entity Data Model conceptual mapping is not stored in:

- 1). **Schema definition language**
- 2). **Mapping specification language**
- 3). Conceptual Schema definition language
- 4). **Entity Schema definition language**

Suresh needs to add own custom data classes in conjunction with his data model using entity framework work

for his Shopping Cart application. Which Feature of Entity Framework you would recommend him?

- 1). Lazy Loading
- 2). **POCO Objects**
- 3). Code First Approach
- 4). Database First Approach

Identify the true statements:

- 1). **The ObjectQuery generic class implements the IQueryable generic interface**
- 2). **We cannot perform basic operation like projection, filtering, ordering and aggregation on the Entities**
- 3). LINQ to SQL enables you to define LINQ queries on the entities that are returned by an object query.
- 4). **LINQ to Entities converts Language-Integrated Queries (LINQ) queries to command tree queries**

\_\_\_\_\_ provides facilities for querying and working with entity data as objects.

- 1). **Object Context**
- 2). Data Context
- 3). Object Query
- 4). DbContext

Which class allows querying against the entity class?

- 1). EntityQuery
- 2). **EntityClient**
- 3). EntitySQL
- 4). EntityQueryable

\_\_\_\_\_ operator enumerates the first sequence, collecting all distinct elements.  
It then enumerates the second sequence, yielding elements that occur in both sequences.

- 1). Distinct
- 2). Except
- 3). Union
- 4). **Intersect**

Match the following:

- A. SelectMany
- B. SkipWhile
- C. Take

- 1. This operator yields a given number of elements from a sequence, and then skips the remainder of the sequence
  - 2. This operator skips elements from a sequence while a test is TRUE
  - 3. Used while storing information at Page level
  - 4. It performs a one-to-many element projection over a sequence
- 1). A-1, B-3, C-1
  - 2). **A-4, B-2, C-1**
  - 3). A-1, B-2, C-4
  - 4). None of the above