**DN ADO.Net DQ S1 Day 1 Page1**

**Q.** 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

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

##### **Q.** 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

**Solution** :  
option [4] is correct

**Attempted** :  
option [4] is attempted

**Q.** Which of the following are valid Data Access techniques?

**1)**. ISAM

**2)**. OLEDB

**3)**. RANDOM

**4)**. None of the above

**Solution** :  
option [1,2] are correct

**Attempted** :  
option [1,2] are attempted

**Q.** 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

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.** 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

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.** 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

**4)**. None of the above

**Solution** :  
option [2] is correct

**Attempted** :  
option [1] is attempted

**Q.** 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

**Solution** :  
option [1] is correct

**Attempted** :  
option [2] is attempted

**Q.** 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";

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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

**Solution** :  
option [3] is correct

**Attempted** :  
option [1] is attempted

**Q.** 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

**Solution** :  
option [3] is correct

**Attempted** :  
option [4] is attempted

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

**1)**. DataReader

**2)**. .NET Data Provider

**3)**. DataAdapter

**4)**. DataSet

**Solution** :  
option [1,2] are correct

**Attempted** :  
option [1,2,3] are attempted

**DN ADO.Net DQ S1 Day 2**

**Q.** 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

**Solution** :  
option [1] is correct

**Attempted** :  
option [4] is attempted

**Q.** 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

**Solution** :  
option [1] is correct

**Attempted** :  
option [2] is attempted

**Q.** 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

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.** 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()

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.** 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"]

**Solution** :  
option [1,3] are correct

**Attempted** :  
option [1,3] are attempted

**Q.** 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

**Solution** :  
option [1,3] are correct

**Attempted** :  
option [1,2,3] are attempted

**Q.** 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

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.** Which class represents an ordered collection of nodes?

**1)**. XMLTextReader

**2)**. XMLNode

**3)**. XMLNodeList

**4)**. XMLNamedNodeMap

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.** 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()

**Solution** :  
option [3] is correct

**Attempted** :  
option [4] is attempted

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

**1)**. SetDefault

**2)**. SetNull

**3)**. SetDBNull

**4)**. SetDefaultNull

**Solution** :  
option [2] is correct

**Attempted** :  
option [1] is attempted

**DN ADO.Net DQ S2 Day 1**

**Q.** Identify the correct statement about connected and disconnected architecture:  
  
A: Connected architecture guarantees that updated data is available  
B: Using disconnected architecture applications performance is degraded

**1)**. Statement A is true  
Statement B is false

**2)**. Statement A is false  
Statement B is true

**3)**. Both are true

**4)**. Both are false

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.** How do we instantiate a data reader?

**1)**. By calling new and constructor of reader

**2)**. By calling ExecuteNonQuery() on command object

**3)**. By calling ExecuteReader() on command object

**4)**. By calling ExecuteReader() on connection object

**Solution** :  
option [3] is correct

**Attempted** :  
option [1] is attempted

**Q.** Which of the following methods of data reader should be used to check for null values in a column?

**1)**. IsNotNull()

**2)**. IsNull()

**3)**. IsNotDBNull()

**4)**. IsDBNull()

**Solution** :  
option [4] is correct

**Attempted** :  
option [2] is attempted

**Q.** Identify the correct statements about Ado.net and classic Ado:  
  
A : In classic Ado we have recordset which can have only one table  
B: In Ado.net we have datasets which can have more than one table

**1)**. Statement A is true  
Statement B is false

**2)**. Statement A is false  
Statement B is true

**3)**. both are false

**4)**. both are true

**Solution** :  
option [4] is correct

**Attempted** :  
option [2] is attempted

**Q.** Using \_\_\_\_\_\_\_ as a provider, you can obtain data from sources such as Access, Oracle, Sybase or DB2.

**1)**. OleDb

**2)**. ODBC

**3)**. SqlClient

**4)**. OracleClient

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.** Which of the following C# data type is equivalent to sql server's money data type?

**1)**. float

**2)**. double

**3)**. decimal

**4)**. int

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.** What will be the RowState of the row which is create using NewRow() method   
but not added to datatable's rows collection?

**1)**. UnChanged

**2)**. Detached

**3)**. Modified

**4)**. New

**Solution** :  
option [2] is correct

**Attempted** :  
option [4] is attempted

##### **Q.** Which one of the following namespaces should be included for working with MS Access database? Drag and drop the correct option. Using System.Data; \_\_\_\_

### Attempted

1. using System.Data.AccessClient;

### Solution

1. using System.Data.Oledb;

2. using System.Data.AccessClient;

3. using System.Data.Odbc;

4. using System.Data.SqlClient;

**Q.** Which of the following events are exposed by DataTable? (Select 2 options)

**1)**. RowChanged

**2)**. RowUpdated

**3)**. RowInserted

**4)**. RowDeleted

**Solution** :  
option [1,4] are correct

**Attempted** :  
option [2,4] are attempted

**Q.** Identify the correct code snippet to add the connection string in configuration file:

**1)**. <connectionStrings>  
<add name="connectionstringname"  
connectionString="connectionstring"   
providerName="providername"/>  
</connectionStrings>

**2)**. <connection>  
<add name="connectionstringname"  
connectionString="connectionstring"   
providerName="providername"/>  
</connection>

**3)**. <connectionString>  
name="connectionstringname"  
connectionString="connectionstring"   
providerName="providername"  
</connectionString>

**4)**. <addconnectionString>  
name="connectionstringname"  
connectionString="connectionstring"   
providerName="providername"  
</addconnectionString>

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**DN ADO.Net DQ S2 Day 2**

**Q.** Identify the code that allows retreival of data along with primary key using data adapter:

**1)**. adapter.MissingSchemaAction = MissingSchemaAction.AddWithKey

**2)**. adapter.MissingPrimaryKey = MissingSchemaAction.AddWithKey

**3)**. adapter.MissingPrimaryKey = MissingSchemaAction.AddWithPrimaryKey

**4)**. adapter.MissingSchemaAction = MissingSchemaAction.AddWithPrimaryKey

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.** Identify the correct statements about XMLReader and XMLDocument:  
  
A: XMLDocument is used when memory is constraint  
B: XMLReader is faster than XMLDocument

**1)**. Statement A is true  
Statement B is false

**2)**. Statement A is false  
Statement B is true

**3)**. Both are true

**4)**. Both are false

**Solution** :  
option [2] is correct

**Attempted** :  
option [1] is attempted

**Q.** Identify the incorrect statement about xml schemas:

**1)**. They are used to define the content and structure of data.

**2)**. They define a set of elements and the relationships of those elements

**3)**. They are themselves XML documents.

**4)**. They have their own syntax.

**Solution** :  
option [4] is correct

**Attempted** :  
option [3] is attempted

**Q.** Dataset object is a \_\_\_\_\_\_\_\_  and \_\_\_\_\_\_\_\_ storage.

**1)**. Disconnected

**2)**. Connected

**3)**. In memory

**4)**. None of the above

**Solution** :  
option [1,3] are correct

**Attempted** :  
option [1,3] are attempted

**Q.** Xml schema consists of :

**1)**. Methods and properties

**2)**. elements and attributes

**3)**. data

**4)**. tables and relationships

**Solution** :  
option [2] is correct

**Attempted** :  
option [2] is attempted

**Q.** Which of the following object is used to fill the dataset/data table with query result in ADO.Net?

**1)**. Datareader

**2)**. Dataset

**3)**. Datatable

**4)**. DataAdapter

**Solution** :  
option [4] is correct

**Attempted** :  
option [2] is attempted

**Q.** While writing XML data to a file, Which of the following classes doesnot check for   
duplicate attributes?

**1)**. XMLDocument

**2)**. XMLTextWriter

**3)**. XMLDataDocument

**4)**. XMLWriter

**Solution** :  
option [2] is correct

**Attempted** :  
option [4] is attempted

**Q.** ADO.Net allows us to work with in-memory/virtual databases called as \_\_\_\_\_\_\_\_.

**1)**. DataViews

**2)**. DataTables

**3)**. DataSets

**4)**. None of the above

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.** Identify the correct statement about Ado.Net and XML:  
  
A: Ado.Net is built-in support to convert relational data to xml  
B: Dataset uses XMLDataDocument to store and retrieve xml data as relational tables

**1)**. Statement A is true  
Statement B is false

**2)**. Statement A is false  
Statement B is true

**3)**. Both are true

**4)**. Both are false

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.** Identify the correct statement about data table:

**1)**. DataTable is a member of DataSet

**2)**. DataTable is a member of System.Data

**3)**. DataTable is a member of System.Data.SqlClient

**4)**. DataTable is member of DataAdapter

**Solution** :  
option [2] is correct

**Attempted** :  
option [3] is attempted

**DN ADO.Net DQ S1 Day 3**

Q. 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

Solution :  
option [1] is correct

Attempted :  
option [3] is attempted

Q. 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

Solution :  
option [1] is correct

Attempted :  
option [1] is attempted

Q. 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

Solution :  
option [1] is correct

Attempted :  
option [1] is attempted

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

1). Transactional Integrity

2). Scalability

3). Security

4). Maintainability

Solution :  
option [1,3,4] are correct

Attempted :  
option [1,2,3,4] are attempted

Q. 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

Solution :  
option [2] is correct

Attempted :  
option [1] is attempted

Q. ADO.Net 4.5 introduces \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_ modifiers for asynchronous processing.

1). delegate

2). async

3). IAsyncResult

4). await

Solution :  
option [2,4] are correct

Attempted :  
option [2,4] are attempted

Q. 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

Solution :  
option [4] is correct

Attempted :  
option [4] is attempted

Q. 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

Solution :  
option [2] is correct

Attempted :  
option [2] is attempted

Q. 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

Solution :  
option [3] is correct

Attempted :  
option [1] is attempted

Q. State - True/False  
  
Update and Fill method of Data Adapter automatically opens and closes the connection.

1). FALSE

2). TRUE

Solution :  
option [2] is correct

Attempted :  
option [1] is attempted

**DN ADO.Net DQ S2 Day 3**

**Q.** Which are the new keywords added in Version 4.5 for implementing asynchronous   
Data Accesss without having to use CallBacks?

**1)**. wait

**2)**. async

**3)**. BeginExecuteReader

**4)**. EndExecuteReader

**Solution** :  
option [1,2] are correct

**Attempted** :  
option [1,2,3] are attempted

**Q.** Which of these is not part of the DataSet Layer?

**1)**. DataRowCollection

**2)**. DataColumnCollection

**3)**. DataRelationCollection

**4)**. DataAdapater

##### **Solution** : option [4] is correct **Q.** While implementing connection pooling in ADO.NET if the connection timeout is not set,  then the default timeout is?

**1)**. 30 secs

**2)**. 15 secs

**3)**. 20 secs

**4)**. 25 secs

**Solution** :  
option [2] is correct

**Attempted** :  
option [1] is attempted

**Attempted** :  
option [4] is attempted

**Q.** In Which namespace do we find the SqlConnection class?

**1)**. System.Data.Sql

**2)**. System.Data.SqlType

**3)**. System.Data.SqlClient

**4)**. System.Data.SqlData

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.** Which property of the command object has to be set while using a stored procedure?

**1)**. CommandText

**2)**. CommandOption

**3)**. ConnectionString

**4)**. CommandType

**Solution** :  
option [4] is correct

**Attempted** :  
option [4] is attempted

**Q.** Which of the ADO.NET provider would you use, if your backend database was Microsoft Access?

**1)**. System.Data.Oledb

**2)**. System.Data.Odbc

**3)**. System.Data.OracleClient

**4)**. System.Data.SqlClient

**Solution** :  
option [1] is correct

**Attempted** :  
option [1] is attempted

**Q.** Which class was added in version 4.5, through which we can set the credentails outside of   
the connectionString property on the Connection class?

**1)**. Credential

**2)**. SqlCredential

**3)**. DataCredential

**4)**. UserCredential

**Solution** :  
option [2] is correct

**Attempted** :  
option [1] is attempted

##### **Q.** Fill the missing steps by dragging and dropping the correct options: Architecture Flow in Disconnected Architecture 1. Open Connection 2. \_\_\_\_ 3. Close Connection 4.Process the DataSet 5.Open Connection  6.\_\_\_\_ 7.  Close Connections

### Attempted

1. Fill DataSet

2. Update DataSource with DataSet changes

### Solution

1. Fill DataSet

2. Update DataSource with DataSet changes

3. Execute the Command

4. check connection is open

**Q.** Which of these object would you use to read data from backend Database?

**1)**. SqlConnection

**2)**. SqlCommand

**3)**. SqlDataReader

**4)**. SqlDataAdapater

**Solution** :  
option [3] is correct

**Attempted** :  
option [3] is attempted

**Q.** Which method of the SqlDataAdapater would help to load the table in the DataSet?

**1)**. Load

**2)**. Fill

**3)**. GetTable

**4)**. Update

**Solution** :  
option [2] is correct

**Attempted** :  
option [2] is attempted