



Exam : Microsoft 70-553

Title : MCSD MS.NET Skills to MCPD
Entpse App
Dvlpr Pt1

Update : Demo

1. You are developing an application that stores data about your company's sales and technical support teams.

You need to ensure that the name and contact information for each person is available as a single collection when a user queries details about a specific team. You also need to ensure that the data collection guarantees type safety.

Which code segment should you use?

A. `Hashtable team = new Hashtable();`

`team.Add(1, "Hance");`

`team.Add(2, "Jim");`

`team.Add(3, "Hanif");`

`team.Add(4, "Kerim");`

`team.Add(5, "Alex");`

`team.Add(6, "Mark");`

`team.Add(7, "Roger");`

`team.Add(8, "Tommy");`

B. `ArrayList team = new ArrayList();`

`team.Add("1, Hance");`

`team.Add("2, Jim");`

`team.Add("3, Hanif");`

`team.Add("4, Kerim");`

`team.Add("5, Alex");`

`team.Add("6, Mark");`

`team.Add("7, Roger");`

`team.Add("8, Tommy");`

C. `Dictionary<int, string> team = new Dictionary<int, string>();`

`team.Add(1, "Hance");`

`team.Add(2, "Jim");`

`team.Add(3, "Hanif");`

`team.Add(4, "Kerim");`

`team.Add(5, "Alex");`

`team.Add(6, "Mark");`

`team.Add(7, "Roger");`

`team.Add(8, "Tommy");`

D. `string[] team =`

`new string[] { "1, Hance", "2, Jim", "3, Hanif", "4, Kerim", "5, Alex",`

`"6, Mark", "7, Roger", "8, Tommy" };`

Answer: C

2. You are developing an application that stores data about your company's sales and technical support teams.

You need to ensure that the name and contact information for each person is available as a single collection when a user queries details about a specific team. You also need to ensure that the data collection guarantees type safety.

Which code segment should you use?

A. Dim teamAs Hashtable = New Hashtable()

```
team.Add(1, "Hance")
```

```
team.Add(2, "Jim")
```

```
team.Add(3, "Hanif")
```

```
team.Add(4, "Kerim")
```

```
team.Add(5, "Alex")
```

```
team.Add(6, "Mark")
```

```
team.Add(7, "Roger")
```

```
team.Add(8, "Tommy")
```

B. Dim teamAs ArrayList = New ArrayList()

```
team.Add("1, Hance")
```

```
team.Add("2, Jim")
```

```
team.Add("3, Hanif")
```

```
team.Add("4, Kerim")
```

```
team.Add("5, Alex")
```

```
team.Add("6, Mark")
```

```
team.Add("7, Roger")
```

```
team.Add("8, Tommy")
```

C. Dim teamAs New Dictionary(Of Integer, String)

```
team.Add(1, "Hance")
```

```
team.Add(2, "Jim")
```

```
team.Add(3, "Hanif")
```

```
team.Add(4, "Kerim")
```

```
team.Add(5, "Alex")
```

```
team.Add(6, "Mark")
```

```
team.Add(7, "Roger")
```

```
team.Add(8, "Tommy")
```

D. Dim teamAs String() = New String() { _

```
"1, Hance", _
```

```
"2, Jim", _
```

```
"3, Hanif", _
```

```
"4, Kerim", _
```

```
"5, Alex", _
```

```
"6, Mark", _
```

```
"7, Roger", _
```

```
"8, Tommy"}
```

Answer: C

3. You are creating a Windows Form. You add a TableLayoutPanel control named pnlLayout to the form. You set the properties of pnlLayout so that it will resize with the form.

You need to create a three-column layout that has fixed left and right columns. The fixed columns must each

remain 50 pixels wide when the form is resized. The middle column must fill the remainder of the form width when the form is resized. You add the three columns in the designer.

Which code segment should you use to format the columns at run time?

- A.

```
pnLayout.ColumnStyles.Clear();  
pnLayout.ColumnStyles.Add(new ColumnStyle(SizeType.Absolute,50F));  
pnLayout.ColumnStyles.Add(new ColumnStyle(SizeType.AutoSize, 100F));  
pnLayout.ColumnStyles.Add(new ColumnStyle(SizeType.Absolute,50F));
```
- B.

```
pnLayout.ColumnStyles[0].Width = 50F;  
pnLayout.ColumnStyles[0].SizeType = SizeType.Absolute;  
pnLayout.ColumnStyles[2].Width = 50F;  
pnLayout.ColumnStyles[2].SizeType = SizeType.Absolute;
```
- C.

```
pnLayout.ColumnStyles[0].Width = 50F;  
pnLayout.ColumnStyles[0].SizeType = SizeType.Absolute;  
pnLayout.ColumnStyles[1].Width = 100F;  
pnLayout.ColumnStyles[1].SizeType = SizeType.AutoSize;  
pnLayout.ColumnStyles[2].Width = 50F;  
pnLayout.ColumnStyles[2].SizeType = SizeType.Absolute;
```
- D.

```
pnLayout.ColumnStyles.Clear();  
pnLayout.ColumnStyles.Add(new ColumnStyle(SizeType.Absolute, 50F));  
pnLayout.ColumnStyles.Add(new ColumnStyle(SizeType.Percent, 100F));  
pnLayout.ColumnStyles.Add(new ColumnStyle(SizeType.Absolute, 50F));
```

Answer: D

4. Your Web site uses custom Themes. Your Web site must support additional Themes based on the user's company name.

The company name is set when a user logs on to the Web site. The company's Theme name is stored in a variable named ThemeName.

You need to use this variable to dynamically set the Web site's Theme.

What should you do?

A. Add the following code segment to the markup source of each page on the Web site.

```
<%@ PageTheme="ThemeName" ... %>
```

B. Add the following code segment to the Load event of each page on the Web site.

```
Page.Theme = ThemeName;
```

C. Add the following code segment to the PreInit event of each page on the Web site.

```
Page.Theme = ThemeName;
```

D. Add the following code segment to the Web site's configuration file.

```
<pages theme="ThemeName" />
```

Answer: C

5. You are creating a Windows Form. You add a TableLayoutPanel control named pnLayout to the form. You set the properties of pnLayout so that it will resize with the form.

You need to create a three-column layout that has fixed left and right columns. The fixed columns must each remain 50 pixels wide when the form is resized. The middle column must fill the remainder of the

form width when the form is resized. You add the three columns in the designer.

Which code segment should you use to format the columns at run time?

A. `pnlLayout.ColumnStyles.Clear()`

`pnlLayout.ColumnStyles.Add(New ColumnStyle(SizeType.Absolute, 50.0F))`

`pnlLayout.ColumnStyles.Add(New ColumnStyle(SizeType.AutoSize, 100.0F))`

`pnlLayout.ColumnStyles.Add(New ColumnStyle(SizeType.Absolute, 50.0F))`

B. `pnlLayout.ColumnStyles(0).Width = 50.0F`

`pnlLayout.ColumnStyles(0).SizeType = SizeType.Absolute`

`pnlLayout.ColumnStyles(2).Width = 50.0F`
`pnlLayout.ColumnStyles(2).SizeType = SizeType.Absolute`

C. `pnlLayout.ColumnStyles(0).Width = 50.0F`

`pnlLayout.ColumnStyles(0).SizeType = SizeType.Absolute`

`pnlLayout.ColumnStyles(1).Width = 100.0F`
`pnlLayout.ColumnStyles(1).SizeType = SizeType.AutoSize`

`pnlLayout.ColumnStyles(2).Width = 50.0F`
`pnlLayout.ColumnStyles(2).SizeType = SizeType.Absolute`

D. `pnlLayout.ColumnStyles.Clear()`

`pnlLayout.ColumnStyles.Add(New ColumnStyle(SizeType.Absolute, 50.0F))`

`pnlLayout.ColumnStyles.Add(New ColumnStyle(SizeType.Percent, 100.0F))`

`pnlLayout.ColumnStyles.Add(New ColumnStyle(SizeType.Absolute, 50.0F))`

Answer: D

6. Your Web site uses custom Themes. Your Web site must support additional Themes based on the user's company name.

The company name is set when a user logs on to the Web site. The company's Theme name is stored in a variable named `ThemeName`.

You need to use this variable to dynamically set the Web site's Theme.

What should you do?

A. Add the following code segment to the markup source of each page on the Web site.

```
<%@ PageTheme="ThemeName" ... %>
```

B. Add the following code segment to the Load event of each page on the Web site.

```
Page.Theme = ThemeName
```

C. Add the following code segment to the PreInit event of each page on the Web site.

```
Page.Theme = ThemeName
```

D. Add the following code segment to the Web site's configuration file.

```
<pages theme="ThemeName" />
```

Answer: C

7. You are creating a Windows Forms application. You add an `ErrorProvider` component named `erpErrors` and a `DateTimePicker` control named `ntpStartDate` to the application. The application also contains other controls.

You need to configure the application to display an error notification icon next to `ntpStartDate` when the user enters a date that is greater than today's date.

Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. For the `Validating` event of `ntpStartDate`, create an event handler named `VerifyStartDate`.

B. For the `Validated` event of `ntpStartDate`, create an event handler named `VerifyStartDate`.

- C. In the Properties Window for `dateTimePicker1.StartDate`, set the value of Error on `erpErrors` to Date out of range.
- D. In `VerifyStartDate`, call `erpErrors.SetError(dateTimePicker1.StartDate, "Date out of range")` if the value of `dateTimePicker1.StartDate.Value` is greater than today's date.
- E. In `VerifyStartDate`, call `erpErrors.SetError(dateTimePicker1.StartDate, null)` if the `dateTimePicker1.StartDate.Value` is greater than today's date.

Answer: D AND A

8. You need to create a method to clear a Queue named `q`. Which code segment should you use?

- A. `foreach (object e in q) {
q.Dequeue();
}`
- B. `foreach (object e in q) {
Enqueue(null);
}`
- C. `q.Clear();`
- D. `q.Dequeue();`

Answer: C

9. You are creating a Windows Forms application. You add an `ErrorProvider` component named `erpErrors` and a `DateTimePicker` control named `dateTimePicker1` to the application. The application also contains other controls.

You need to configure the application to display an error notification icon next to `dateTimePicker1` when the user enters a date that is greater than today's date.

Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. For the `Validating` event of `dateTimePicker1`, create an event handler named `VerifyStartDate`.
- B. For the `Validated` event of `dateTimePicker1`, create an event handler named `VerifyStartDate`.
- C. In the Properties Window for `dateTimePicker1`, set the value of Error on `erpErrors` to Date out of range.
- D. In `VerifyStartDate`, call `erpErrors.SetError(dateTimePicker1.StartDate, "Date out of range")` if the value of `dateTimePicker1.StartDate.Value` is greater than today's date.
- E. In `VerifyStartDate`, call `erpErrors.SetError(dateTimePicker1.StartDate, null)` if the `dateTimePicker1.StartDate.Value` is greater than today's date.

Answer: D AND A

10. You need to create a method to clear a Queue named `q`. Which code segment should you use?

- A. `Dim e As Object
For Each e In q
q.Dequeue()
Next`
- B. `Dim e As Object
For Each e In q
q.Enqueue(Nothing)
Next`
- C. `q.Clear()`

D. q.Dequeue()

Answer: C

11. You are creating a Windows Form that includes a TextBox control named txtDate. When a user right-clicks within the text box, you want the application to display a MonthCalendar control. You need to implement a context menu that provides this functionality.

What should you do?

A. Add the following code to the form initialization.

```
MonthCalendar cal = new MonthCalendar();
ContextMenuStrip mnuContext = new ContextMenuStrip();
ToolStripControlHost host = new ToolStripControlHost(mnuContext);
txtDate.ContextMenuStrip = mnuContext;
```

B. Add the following code to the form initialization.

```
ContextMenuStrip mnuContext = new ContextMenuStrip();
MonthCalendar cal = new MonthCalendar();
ToolStripControlHost host = new ToolStripControlHost(cal);
mnuContext.Items.Add(host);
txtDate.ContextMenuStrip = mnuContext;
```

C. Add the following code to the form initialization.

```
ToolStripContainer ctr = new ToolStripContainer();
MonthCalendar cal = new MonthCalendar();
ctr.ContentPanel.Controls.Add(cal);
txtDate.Controls.Add(ctr);
```

Add a MouseClick event handler for the TextBox control that contains the following code.

```
if (e.Button == MouseButtons.Right) {
txtDate.Controls[0].Show();
}
```

D. Add a MouseClick eventhandler for the TextBox control that contains the following code.

```
if (e.Button == MouseButtons.Right) {
ContextMenuStripmnuContext = new ContextMenuStrip();
MonthCalendar cal = new MonthCalendar();
ToolStripControlHosthost = new ToolStripControlHost(cal);
mnuContext.Items.Add(host);
txtDate.ContextMenuStrip= mnuContext;
}
```

Answer: B

12. You are creating a Windows Form that includes a TextBox control named txtDate. When a user right-clicks within the text box, you want the application to display a MonthCalendar control. You need to implement a context menu that provides this functionality.

What should you do?

A. Add the following code to the form initialization.

```
Dim cal As New MonthCalendar()
```

DimmnuContext As New ContextMenuStrip()

Dim host As New ToolStripControlHost(mnuContext)

txtDate.ContextMenuStrip = mnuContextB. Add the following code to the form initialization.

DimmnuContext As New ContextMenuStrip()

Dim cal As New MonthCalendar()

Dim host As New ToolStripControlHost(cal)

mnuContext.Items.Add(host)

txtDate.ContextMenuStrip = mnuContextC. Add the following code to the form initialization.

Dim ctr As New ToolStripContainer()

Dim cal As New MonthCalendar()

ctr.ContentPanel.Controls.Add(cal)

txtDate.Controls.Add(ctr)

Add a MouseClick event handler for the TextBox control that contains the following code.

If e.Button = MouseButtons.Right Then

txtDate.Controls(0).Show()

End If

D. Add a MouseClick eventhandler for the TextBox control that contains the following code.

If e.Button = MouseButtons.Right Then

DimmnuContext AsNewContextMenuStrip()

Dim cal As New MonthCalendar()

Dimhost As New ToolStripControlHost(cal)

mnuContext.Items.Add(host)

txtDate.ContextMenuStrip= mnuContext

End If

Answer: B

13. You are writing a custom dictionary. The custom-dictionary class is named MyDictionary.

You need to ensure that the dictionary is type safe.

Which code segment should you use?

A. class MyDictionary : Dictionary<string, string>

B. class MyDictionary : Hash Table

C. class MyDictionary : IDictionary

D. class MyDictionary { ... }

Dictionary<string, string> t =

new Dictionary<string, string>();

MyDictionary dictionary = (MyDictionary)t;

Answer: A

14. You are writing a custom dictionary. The custom-dictionary class is named MyDictionary.

You need to ensure that the dictionary is type safe.

Which code segment should you use?

A. Class MyDictionary

Implements Dictionary(Of String, String)

B. Class MyDictionary

Inherits Hash Table

C. Class MyDictionary

Implements IDictionaryD. Class MyDictionary

...

```
End ClassDim t As New Dictionary(Of String, String)
```

```
Dim dict As MyDictionary = CType(t, MyDictionary)
```

Answer: A15. You are creating an undo buffer that stores data modifications.

You need to ensure that the undo functionality undoes the most recent data modifications first. You also need to ensure that the undo buffer permits the storage of strings only.

Which code segment should you use?

- A. `Stack<string> undoBuffer = new Stack<string>();`
- B. `Stack undoBuffer = new Stack();`
- C. `Queue<string> undoBuffer = new Queue<string>();`
- D. `Queue undoBuffer = new Queue();`

Answer: A

16. You are creating an undo buffer that stores data modifications.

You need to ensure that the undo functionality undoes the most recent data modifications first. You also need to ensure that the undo buffer permits the storage of strings only.

Which code segment should you use?

- A. `Dim undoBuffer As New Stack(Of String)`
- B. `Dim undoBuffer As New Stack()`
- C. `Dim undoBuffer As New Queue(Of String)`
- D. `Dim undoBuffer As New Queue()`

Answer: A17. You are creating a Windows Forms application. Initialization code loads a DataSet object named ds that includes a table named Users. The Users table includes a column named IsManager.

You need to bind the IsManager column to the Checked property of a check box named chkIsManager.

Which code segment should you use?

- A. `chkIsManager.DataBindings.Add("Checked", ds, "Users.IsManager");`
- B. `chkIsManager.DataBindings.Add("Checked", ds, "IsManager");`
- C. `chkIsManager.Text= "{Users.IsManager}";`
`chkIsManager.AutoCheck =true;`
- D. `this.DataBindings.Add("chkIsManager.Checked", ds, "Users.IsManager");`

Answer: A

18. You are creating a Windows Forms application. Initialization code loads a DataSet object named ds that includes a table named Users. The Users table includes a column named IsManager.

You need to bind the IsManager column to the Checked property of a check box named chkIsManager.

Which code segment should you use?

- A. `chkIsManager.DataBindings.Add("Checked", ds, "Users.IsManager")`
- B. `chkIsManager.DataBindings.Add("Checked", ds, "IsManager")`
- C. `chkIsManager.Text= "{Users.IsManager}"`
`chkIsManager.AutoCheck =True`
- D. `Me.DataBindings.Add("chkIsManager.Checked", ds, "Users.IsManager")`

Answer: A

19. A method in your Windows Forms application executes a stored procedure in a Microsoft SQL Server 2005 database, and then executes a second stored procedure in a second SQL Server 2005 database. You need to ensure that the call to the first stored procedure writes changes only if the call to the second stored procedure succeeds. Installation requirements prohibit you from introducing new components that use the COM+ hosting model.

What should you do?

A. Implement a transactional serviced component.

Add methods to this component to encapsulate the connect operation and execution of each stored procedure.

Register and use this serviced component.

B. Add a TransactionScope block.

Connect to each database and execute each stored procedure within the TransactionScope block.

Call the TransactionScope.Complete method if the call to both stored procedure succeeds.

C. Connect to both databases.

Call the SqlConnection.BeginTransaction method for each connection.

Call the SqlTransaction.Commit method on both returned transactions only if both stored procedures succeed.

D. Add a try-catch-finally block.

Connect to each database and execute each stored procedure in the try block.

Answer: B

20. A method in your Windows Forms application executes a stored procedure in a Microsoft SQL Server 2005 database, and then executes a second stored procedure in a second SQL Server 2005 database. You need to ensure that the call to the first stored procedure writes changes only if the call to the second stored procedure succeeds. Installation requirements prohibit you from introducing new components that use the COM+ hosting model.

What should you do?

A. Implement a transactional serviced component.

Add methods to this component to encapsulate the connect operation and execution of each stored procedure.

Register and use this serviced component.

B. Add a TransactionScope block.

Connect to each database and execute each stored procedure within the TransactionScope block.

Call the TransactionScope.Complete method if the call to both stored procedure succeeds.

C. Connect to both databases.

Call the SqlConnection.BeginTransaction method for each connection.

Call the SqlTransaction.Commit method on both returned transactions only if both stored procedures succeed.

D. Add a Try.-Catch.-Finally block.

Connect to each database and execute each stored procedure in the try block.

Answer: B

21. You are creating a Windows Forms application that includes the database helper methods UpdateOrder and UpdateAccount. Each method wraps code that connects to a Microsoft SQL Server 2005 database, executes a Transact-SQL statement, and then disconnects from the database.

You must ensure that changes to the database that result from the UpdateAccount method are committed only if the UpdateOrder method succeeds.

You need to execute the UpdateAccount method and the UpdateOrder method.

Which code segment should you use?

A.

```
using (TransactionScope ts = new TransactionScope()) {
    UpdateOrder();
    UpdateAccount();
    ts.Complete();
}
```

B.

```
using (TransactionScope ts1 = new TransactionScope()) {
    UpdateOrder();
    using (TransactionScope ts2 = new
    TransactionScope(TransactionScopeOption.RequiresNew)){
    UpdateAccount();
    ts2.Complete();
    }
    ts1.Complete();
}
```

C.

```
using (TransactionScope ts = new TransactionScope(TransactionScopeOption.RequiresNew)){
    UpdateOrder();
    ts.Complete();
}
using (TransactionScope ts = new TransactionScope(TransactionScopeOption.Required)){
    UpdateAccount();
    ts.Complete();
}
```

D.

```
using (TransactionScope ts = new TransactionScope(TransactionScopeOption.RequiresNew)){
    UpdateOrder();
}
using (TransactionScope ts = new TransactionScope(TransactionScopeOption.Required)){
    UpdateAccount();
    ts.Complete();
}
```

Answer: A

22. You are creating a Windows Forms application that includes the database helper methods UpdateOrder and

UpdateAccount. Each method wraps code that connects to a Microsoft SQL Server 2005 database, executes a

Transact-SQL statement, and then disconnects from the database.

You must ensure that changes to the database that result from the UpdateAccount method are committed only if the UpdateOrder method succeeds.

You need to execute the UpdateAccount method and the UpdateOrder method.

Which code segment should you use?

A. Using As New TransactionScope()

```
UpdateOrder()
```

```
UpdateAccount()
```

```
ts.Complete()
```

```
End Using
```

B. Using ts1 As New TransactionScope()

```
UpdateOrder()
```

```
Using ts2 As New TransactionScope(TransactionScopeOption.RequiresNew)
```

```
UpdateAccount()
```

```
ts2.Complete()
```

```
End Using
```

```
ts1.Complete()
```

```
End Using
```

```
ts1.Complete();
```

C. Using ts1 As New TransactionScope()

```
UpdateOrder()
```

```
Using ts2 As New TransactionScope(TransactionScopeOption.RequiresNew)
```

```
UpdateAccount()
```

```
ts2.Complete()
```

```
End Using
```

```
ts1.Complete()
```

```
End Using
```

D. Using ts As New TransactionScope(TransactionScopeOption.RequiresNew)

```
UpdateOrder()
```

```
End Using
```

```
Using ts As New TransactionScope(TransactionScopeOption.Required)
```

```
UpdateAccount()
```

```
ts.Complete()
```

```
End Using
```

Answer: A

23. You are creating a Windows Forms application. The application uses a SqlCommand object named cmd. The

cmd object executes the following stored procedure.

```
CREATE PROCEDURE GetPhoneList
```

```
AS
```

```
BEGIN
```

```
SELECT CompanyName, Phone FROM Customers
SELECT CompanyName, Phone FROM Suppliers
END
```

You need to add all returned rows to the ListBox control named lstPhones.

Which code segment should you use?

- A. SqlDataReader rdr = cmd.ExecuteReader();
do {
while (rdr.Read()) {
lstPhones.Items.Add(rdr.GetString(0) + "\t" + rdr.GetString(1));
}
} while (rdr.NextResult());
- B. SqlDataReader rdr = cmd.ExecuteReader();
while (rdr.Read()) {
lstPhones.Items.Add(rdr.GetString(0) + "\t" + rdr.GetString(1));
}
}
- C. SqlDataReader rdr = cmd.ExecuteReader();
while (rdr.NextResult()) {
while (rdr.Read()) {
lstPhones.Items.Add(rdr.GetString(0) + "\t" + rdr.GetString(1));
}
}
- D. SqlDataReader rdr = cmd.ExecuteReader();
while (rdr.NextResult()) {
lstPhones.Items.Add(rdr.GetString(0) + "\t" + rdr.GetString(1));
}
}

Answer: A24. You have an SQL query that takes one minute to execute.

You use the following code segment to execute the SQL query asynchronously.

```
IAsyncResult ar = cmd.BeginExecuteReader();
```

You need to execute a method named DoWork() that takes one second to run while the SQL query is executing.

DoWork() must run as many times as possible while the SQL query is executing.

Which code segment should you use?

- A. while (ar.AsyncWaitHandle == null) {
DoWork();
}
dr = cmd.EndExecuteReader(ar);
- B. while (!ar.IsCompleted) {
DoWork();
}
dr = cmd.EndExecuteReader(ar);
- C. while (Thread.CurrentThread.ThreadState == ThreadState.Running) {
DoWork();
}

```
dr = cmd.ExecuteReader(ar);
D. while (!ar.AsyncWaitHandle.WaitOne()) {
DoWork();
}
dr = cmd.ExecuteReader(ar);
```

Answer: B

25. You are creating a Windows Forms application. The application uses a SqlCommand object named cmd.

The cmd object executes the following stored procedure.

```
CREATE PROCEDURE GetPhoneList
AS
BEGIN
SELECT CompanyName, Phone FROM Customers
SELECT CompanyName, Phone FROM Suppliers
END
```

You need to add all returned rows to the ListBox control named lstPhones.

Which code segment should you use?

A. Dim rdr As SqlDataReader = cmd.ExecuteReader()

Do

While rdr.Read()

lstPhones.Items.Add((rdr.GetString(0) + ControlChars.Tab +
rdr.GetString(1)))

EndWhileLoop While rdr.NextResult()

B. Dim rdr As SqlDataReader = cmd.ExecuteReader()

While rdr.Read()

lstPhones.Items.Add((rdr.GetString(0) + ControlChars.Tab +
rdr.GetString(1)))

End While

C. Dim rdr As SqlDataReader = cmd.ExecuteReader()

While rdr.NextResult()

While rdr.Read()

lstPhones.Items.Add((rdr.GetString(0) + ControlChars.Tab +
rdr.GetString(1)))

EndWhileEnd While

D. Dim rdr As SqlDataReader = cmd.ExecuteReader()

While rdr.NextResult()

lstPhones.Items.Add((rdr.GetString(0) + ControlChars.Tab +
rdr.GetString(1)))

End While

Answer: A

26. You have an SQL query that takes one minute to execute.

You use the following code segment to execute the SQL query asynchronously.

```
Dim ar As IAsyncResult = cmd.BeginExecuteReader()
```

You need to execute a method named DoWork() that takes one second to run while the SQL query is executing.

DoWork() must run as many times as possible while the SQL query is executing.

Which code segment should you use?

A. While ar.AsyncWaitHandle.IsNothing

```
DoWork()
```

```
End While
```

```
dr = cmd.EndExecuteReader(ar)
```

B. WhileNot ar.IsCompleted

```
DoWork()
```

```
End While
```

```
dr = cmd.EndExecuteReader(ar)
```

C. While Thread.CurrentThread.ThreadState = ThreadState.Running

```
DoWork()
```

```
End While
```

```
dr = cmd.EndExecuteReader(ar)
```

D. While Not ar.AsyncWaitHandle.WaitOne()

```
DoWork()
```

```
End While
```

```
dr = cmd.EndExecuteReader(ar)
```

Answer: B

27. You are creating a Windows Forms application. The application loads a data table named dt from a database

and modifies each value in the data table.

You add the following code. (Line numbers are included for reference only.)

```
01 foreach (DataRow row in dt.Rows) {  
02 foreach (DataColumn col in dt.Columns) {  
03  
04 Trace.WriteLine(str);  
05 }  
06 }
```

You need to format the string named str to show the value of the column at the time the data is loaded and the current value in the column.

Which code segment should you add at line 03?

A. string str = String.Format("Column was {0} is now {1}",
row[col],

```
row[col, DataRowVersion.Current]);
```

B. string str = String.Format("Column was {0} is now {1}",

```
row[col, DataRowVersion.Default],
```

```
row[col]);
```

C. `string str = String.Format("Column was {0} is now {1}",
row[col],
row[col, DataRowVersion.Proposed]);`
D. `string str =String.Format("Column was {0} is now {1}",
row[col, DataRowVersion.Original],
row[col]);`
Answer: D

28. You are creating a Windows Forms application. The application loads a data table named dt from a database and modifies each value in the datatable.

You add the following code. (Line numbers are included for reference only.)

```
01 Dim row As DataRow  
02 For Each row In dt.Rows  
03 Dim col As DataColumn  
04 For Each col In dt.Columns  
05  
06 Trace.WriteLine(str)  
07 Next col
```

08 Next row
You need to format the string named str to show the value of the column at the time the data is loaded and the current value in the column.

Which code segment should you add at line 05?

- A. `Dim str As String = String.Format("Column was {0} is now {1}",
row(col), row(col, DataRowVersion.Current))`
- B. `Dim str As String = String.Format("Column was {0} is now {1}",
row(col, DataRowVersion.Default), row(col))`
- C. `Dim str As String = String.Format("Column was {0} is now {1}",
row(col), row(col, DataRowVersion.Proposed))`
- D. `Dim str As String = String.Format("Column was {0} is now {1}",
row(col, DataRowVersion.Original), row(col))`

Answer: D

29. A Windows Forms application contains the following code segment.

```
string SQL = @"SELECT EmployeeID, LastName, FirstName FROM Employees";  
SqlDataAdapter da = new SqlDataAdapter(SQL, connStr);  
DataTable dt = new DataTable();  
da.MissingSchemaAction = MissingSchemaAction.AddWithKey;  
SqlCommandBuilder bld = new SqlCommandBuilder(da);  
da.Fill(dt);
```

The application allows the user to add rows to the data table. The application will propagate these additions to the

database. If the addition of any row fails, the other rows must still be added. The code must log how many new

rows failed to be added.

You need to propagate the additions to the database and log a failed count.

Which code segment should you use?

A. `da.ContinueUpdateOnError = true;`

`da.Update(dt);`

`DataTable dtErrors = dt.GetChanges(DataRowState.Unchanged);`

`Trace.WriteLine(dtErrors.Rows.Count.ToString() + " rows not added.");`

B. `da.ContinueUpdateOnError = false;`

`da.Update(dt);`

`DataTable dtErrors = dt.GetChanges(DataRowState.Unchanged);`

`Trace.WriteLine(dtErrors.Rows.Count.ToString() + " rows not added.");`

C. `da.ContinueUpdateOnError = true;`

`da.Update(dt);`

`DataRow[] rows = dt.GetErrors();`

`Trace.WriteLine(rows.Length.ToString() + " rows not added.");`

D. `da.ContinueUpdateOnError = false;`

`da.Update(dt);`

`DataRow[] rows = dt.GetErrors();`

`Trace.WriteLine(rows.Length.ToString() + " rows not added.");`

Answer: C

30. A Windows Forms application contains the following code segment.

```
Dim SQLAs String = "SELECT EmployeeID, LastName, FirstName FROM Employees"
```

```
Dim daAs New SqlDataAdapter(SQL, connStr)
```

```
Dim dtAs New DataTable()
```

```
da.MissingSchemaAction = MissingSchemaAction.AddWithKeyDim bldAs New SqlCommandBuilder(da)
```

```
da.Fill(dt)
```

The application allows the user to add rows to the data table. The application will propagate these additions to the

database. If the addition of any row fails, the other rows must still be added. The code must log how many new rows failed to be added.

You need to propagate the additions to the database and log a failed count.

Which code segment should you use?

A. `da.ContinueUpdateOnError = True`

`da.Update(dt)`

`Dim dtErrors As DataTable = dt.GetChanges(DataRowState.Unchanged)`

`Trace.WriteLine((dtErrors.Rows.Count.ToString() + " rows not added."))`

B. `da.ContinueUpdateOnError = False`

`da.Update(dt)`

`Dim dtErrors As DataTable = dt.GetChanges(DataRowState.Unchanged)`

`Trace.WriteLine((dtErrors.Rows.Count.ToString() + " rows not added."))`

C. `da.ContinueUpdateOnError = True`

`da.Update(dt)`

`Dim rows As DataRow() = dt.GetErrors()`

```
Trace.WriteLine((rows.Length.ToString() + " rows not added."))
D. da.ContinueUpdateOnError = False
da.Update(dt)
Dim rows As DataRow() = dt.GetErrors()
Trace.WriteLine((rows.Length.ToString() + " rows not added."))
Answer: C
```



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