

Exam : Microsoft 70-561

**Title : TS: MS .NET Framework 3.5,
ADO.NET Application
Development**

Version : Demo



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1. You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. You need to ensure that the application can connect to any type of database.

What should you do?

A. Set the database driver name in the connection string of the application, and then create the connection object in the following manner.

```
DbConnection connection = new OdbcConnection(connectionString);
```

B. Set the database provider name in the connection string of the application, and then create the connection object in the following manner.

```
DbConnection connection = new OleDbConnection(connectionString);
```

C. Create the connection object in the following manner.

```
DbProviderFactory factory = DbProviderFactories.GetFactory("System.Data.Odbc");
```

```
DbConnection connection = factory.CreateConnection();
```

D. Create the connection object in the following manner.

```
DbProviderFactory factory = DbProviderFactories.GetFactory(databaseProviderName);
```

```
DbConnection connection = factory.CreateConnection();
```

Answer: D

2. You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. You need to ensure that the application can connect to any type of database.

What should you do?

A. Set the database driver name in the connection string of the application, and then create the connection object in the following manner.

```
Dim connection As DbConnection = _ New OdbcConnection(connectionString)
```

B. Set the database provider name in the connection string of the application, and then create the connection object in the following manner.

```
Dim connection As DbConnection = _ New OleDbConnection(connectionString)
```

C. Create the connection object in the following manner.

```
Dim factory As DbProviderFactory = _ DbProviderFactories.GetFactory("System.Data.Odbc")
```

```
Dim connection As DbConnection = _ factory.CreateConnection()
```

D. Create the connection object in the following manner.

```
Dim factory As DbProviderFactory = _ DbProviderFactories.GetFactory(databaseProviderName)
```

```
Dim connection As DbConnection = factory.CreateConnection()
```

Answer: D

3. You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application has a DataTable object named OrderDetailTable. The object has the following columns:

ID

OrderID
ProductID
Quantity
LineTotal

The OrderDetailTable object is populated with data provided by a business partner. Some of the records contain a null value in the LineTotal field and 0 in the Quantity field.

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

```
01 DataColumn col = new DataColumn("UnitPrice", typeof(decimal));  
02  
03 OrderDetailTable.Columns.Add(col);
```

You need to add a DataColumn named UnitPrice to the OrderDetailTable object.

Which line of code should you insert at line 02?

- A. col.Expression = "LineTotal/Quantity";
- B. col.Expression = "LineTotal/ISNULL(Quantity, 1)";
- C. col.Expression = "LineTotal.Value/ISNULL(Quantity.Value, 1)";
- D. col.Expression = "iif(Quantity > 0, LineTotal/Quantity, 0)";

Answer: D

4. You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application has a DataTable object named OrderDetailTable. The object has the following columns:

ID
OrderID
ProductID
Quantity
LineTotal

The OrderDetailTable object is populated with data provided by a business partner. Some of the records contain a null value in the LineTotal field and 0 in the Quantity field.

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

```
01 Dim col As New DataColumn("UnitPrice", GetType(Decimal))  
02  
03 OrderDetailTable.Columns.Add(col)
```

You need to add a DataColumn named UnitPrice to the OrderDetailTable object.

Which line of code should you insert at line 02?

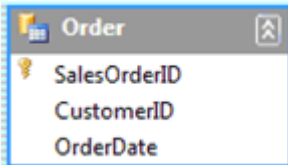
- A. col.Expression = "LineTotal/Quantity"
- B. col.Expression = "LineTotal/ISNULL(Quantity, 1)"
- C. col.Expression = "LineTotal.Value/ISNULL(Quantity.Value, 1)"

D. col.Expression = "iif(Quantity > 0, LineTotal/Quantity, 0)"

Answer: D

5. You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET.

The application contains a DataSet object named orderDS. The object contains a table named Order as shown in the following exhibit.



The application uses a SqlDataAdapter object named daOrder to populate the Order table.

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

```
01 private void FillOrderTable(int pageIndex) {
02     int pageSize = 5;
03
04 }
```

You need to fill the Order table with the next set of 5 records for each increase in the pageIndex value.

Which code segment should you insert at line 03?

A. string sql = "SELECT SalesOrderID, CustomerID, OrderDate FROM Sales.SalesOrderHeader";
daOrder.SelectCommand.CommandText = sql;

daOrder.Fill(orderDS, pageIndex, pageSize, "Order");

B. int startRecord = (pageIndex - 1) * pageSize;

string sql = "SELECT SalesOrderID, CustomerID, OrderDate FROM Sales.SalesOrderHeader";

daOrder.SelectCommand.CommandText = sql;

daOrder.Fill(orderDS, startRecord, pageSize, "Order");

C. string sql = string.Format("SELECT TOP {0} SalesOrderID, CustomerID,

OrderDate FROM Sales.SalesOrderHeader WHERE SalesOrderID > {1}", pageSize, pageIndex);

daOrder.SelectCommand.CommandText = sql;

daOrder.Fill(orderDS, "Order");

D. int startRecord = (pageIndex - 1) * pageSize;

string sql = string.Format("SELECT TOP {0} SalesOrderID, CustomerID,

OrderDate FROM Sales.SalesOrderHeader WHERE SalesOrderID > {1}",

pageSize, startRecord);

daOrder.SelectCommand.CommandText = sql;

daOrder.Fill(orderDS, "Order");

Answer: B

6. You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. The application connects to a Microsoft SQL Server 2005 database.

You need to separate the security-related exceptions from the other exceptions for database operations at run time.

Which code segment should you use?

A. Catch ex As System.Security.SecurityException

'Handle all database security related exceptions.

End Try

B. Catch ex As System.Data.SqlClient.SqlException

For i As Integer = 0 To ex.Errors.Count - 1

If ex.Errors(i).[Class].ToString() = "14" Then

'Handle all database security related exceptions.

Else

'Handle other exceptions

End If

Next

End Try

C. Catch ex As System.Data.SqlClient.SqlException

For i As Integer = 0 To ex.Errors.Count - 1

If ex.Errors(i).Number = 14 Then

'Handle all database security related exceptions.

Else

'Handle other exceptions

End If

Next

End Try

D. Catch ex As System.Data.SqlClient.SqlException

For i As Integer = 0 To ex.Errors.Count - 1

If ex.Errors(i).Message.Contains("Security") Then

'Handle all database security related exceptions.

Else

'Handle other exceptions

End If

Next

End Try

Answer: B

7. You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. The application connects to a Microsoft SQL Server 2005 database.

You write the following code segment.

```
string queryString = "Select Name, Age from dbo.Table_1";  
SqlCommand command = new SqlCommand(queryString, (SqlConnection)connection);
```

You need to get the value that is contained in the first column of the first row of the result set returned by the query.

Which code segment should you use?

- A. `var value = command.ExecuteScalar();`
`string requiredValue = value.ToString();`
- B. `var value = command.ExecuteNonQuery();`
`string requiredValue = value.ToString();`
- C. `var value = command.ExecuteReader(CommandBehavior.SingleRow);`
`string requiredValue = value[0].ToString();`
- D. `var value = command.ExecuteReader(CommandBehavior.SingleRow);`
`string requiredValue = value[1].ToString();`

Answer: A

8. You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. The application connects to a Microsoft SQL Server 2005 database.

You write the following code segment.

```
Dim queryString As String = "Select Name, Age from dbo.Table_1"  
Dim command As New SqlCommand(queryString, DirectCast(connection, SqlConnection))
```

You need to get the value that is contained in the first column of the first row of the result set returned by the query.

Which code segment should you use?

- A. `Dim value As Object = command.ExecuteScalar()`
`Dim requiredValue As String = value.ToString()`
- B. `Dim value As Integer = command.ExecuteNonQuery()`
`Dim requiredValue As String = value.ToString()`
- C. `Dim value As SqlDataReader = _command.ExecuteReader(CommandBehavior.SingleRow)`
`Dim requiredValue As String = value(0).ToString()`
- D. `Dim value As SqlDataReader = _command.ExecuteReader(CommandBehavior.SingleRow)`
`Dim requiredValue As String = value(1).ToString()`

Answer: A

9. You create an application by using the Microsoft .NET Framework 3.5 and Microsoft ADO.NET. The application connects to a Microsoft SQL Server 2005 database.

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

```
01 using (SqlConnection connection = new
    SqlConnection(connectionString)) {
02     SqlCommand cmd = new SqlCommand(queryString, connection);
03     connection.Open();
04
05     while (sdrdr.Read()){
06         // use the data in the reader
07     }
08 }
```

You need to ensure that the memory is used efficiently when retrieving BLOBs from the database.

Which code segment should you insert at line 04?

- A. `SqlDataReader sdrdr = cmd.ExecuteReader();`
- B. `SqlDataReader sdrdr = cmd.ExecuteReader(CommandBehavior.Default);`
- C. `SqlDataReader sdrdr = cmd.ExecuteReader(CommandBehavior.SchemaOnly);`
- D. `SqlDataReader sdrdr = cmd.ExecuteReader(CommandBehavior.SequentialAccess);`

Answer: D



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