



# 70-516<sup>Q&As</sup>

TS: Accessing Data with Microsoft .NET Framework 4

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## QUESTION 1

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create an application. The application connects to a Microsoft SQL Server 2008 database. The database includes a table named `dbo.Documents` that contains a

column with large binary data. You are creating the Data Access Layer (DAL). You add the following code segment to query the `dbo.Documents` table. (Line numbers are included for reference only.)

```
01 public void LoadDocuments(DbConnection cnx)
02 {
03     var cmd = cnx.CreateCommand();
04     cmd.CommandText = "SELECT * FROM dbo.Documents";
05 ...
06 cnx.Open();
07 ...
08 ReadDocument(reader);
09 }
```

You need to ensure that data can be read as a stream. Which code segment should you insert at line 07?

- A. `var reader = cmd.ExecuteReader(CommandBehavior.Default);`
- B. `var reader = cmd.ExecuteReader(CommandBehavior.SchemaOnly);`
- C. `var reader = cmd.ExecuteReader(CommandBehavior.KeyInfo);`
- D. `var reader = cmd.ExecuteReader(CommandBehavior.SequentialAccess);`

Correct Answer: D

**CommandBehavior: Default** The query may return multiple result sets. Execution of the query may affect the database state. Default sets no `CommandBehavior` flags, so calling `ExecuteReader(CommandBehavior.Default)` is functionally equivalent to calling `ExecuteReader()`. **SingleResult** The query returns a single result set. **SchemaOnly** The query returns column information only. When using `SchemaOnly`, the .NET Framework Data Provider for SQL Server precedes the statement being executed with `SET FMTONLY ON`. **KeyInfo** The query returns column and primary key information. When `KeyInfo` is used for command execution, the provider will append extra columns to the result set for existing primary key and timestamp columns. When using `KeyInfo`, the .NET Framework Data Provider for SQL Server precedes the statement being executed with `SET FMTONLY OFF` and `SET NO_BROWSETABLE ON`. The user should be aware of potential side effects, such as interference with the use of `SET FMTONLY ON` statements. **SingleRow** The query is expected to return a single row of the first result set. Execution of the query may affect the database state. Some .NET Framework data providers may, but are not required to, use this information to optimize the performance of the command. When you specify `SingleRow` with the `ExecuteReader` method of the `OleDbCommand` object, the .NET Framework Data Provider for OLE DB performs binding using the OLE DB `IRow` interface if it is available. Otherwise, it uses the `IRowset` interface. If your SQL statement is expected to return only a single row, specifying `SingleRow` can also improve application performance. It is possible to specify `SingleRow` when executing queries that are expected to return multiple result sets. In that case, where both a multi-result set SQL query and single row are specified, the result



returned will contain only the first row of the first result set. The other result sets of the query will not be returned. SequentialAccess Provides a way for the DataReader to handle rows that contain columns with large binary values. Rather than loading the entire row, SequentialAccess enables the DataReader to load data as a stream. You can then use the GetBytes or GetChars method to specify a byte location to start the read operation, and a limited buffer size for the data being returned. When you specify SequentialAccess, you are required to read from the columns in the order they are returned, although you are not required to read each column. Once you have read past a location in the returned stream of data, data at or before that location can no longer be read from the DataReader. When using the OleDbDataReader, you can reread the current column value until reading past it. When using the SqlDataReader, you can read a column value only once. CloseConnection When the command is executed, the associated Connection object is closed when the associated DataReader object is closed. CommandBehavior Enumeration (<http://msdn.microsoft.com/en-us/library/system.data.commandbehavior.aspx>)

## QUESTION 2

The application must be configured to run on a new development computer.

You need to configure the connection string to point to the existing named instance. Which connection string fragment should you use?

- A. Data Source=INST01\SQL01
- B. Data Source=SQL01\INST01
- C. Initial Catalog= INST01\SQL01
- D. Initial Catalog= SQL01\INST01

Correct Answer: B

## QUESTION 3

You use the Microsoft .NET Framework 4 Entity Framework to develop an application that contains an Entity Data Model for the following database tables.



You need to ensure that the entity that is mapped to the ContentTypeDerived table derives from the entity that is mapped to the ContentTypeBase table. What should you do?

- A. Use a Table-Per-Type mapping method.
- B. Use a Table-Per-Hierarchy mapping method.
- C. Create a function import for each entity.



D. Create a complex type for each entity.

Correct Answer: A

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#### QUESTION 4

You use Microsoft .NET Framework 4 to develop an application that connects to a Microsoft SQL Server 2008 database. You add the following stored procedure to the database.

```
CREATE PROCEDURE GetProducts AS BEGIN SELECT ProductID, Name, Price, Cost FROM Product END
```

You create a SqlDataAdapter named adapter to execute the stored procedure. You need to fill a DataTable instance with the first 10 rows of the result set.

What are two possible code segments that you can use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. `Dim ds As DataSet = New DataSet() adapter.Fill(ds, 0, 10, "Product")`
- B. `Dim ds As DataSet = New DataSet() Dim dt As DataTable = ds.Tables.Add("Product") adapter.Fill(0, 10, dt)`
- C. `Dim ds As DataSet = New DataSet() Dim dt As DataTable = ds.Tables.Add("Product") dt.ExtendedProperties("RowCount") = 10 dt.ExtendedProperties("RowIndex") = 0 adapter.Fill(dt)`
- D. `Dim ds As DataSet = New DataSet() ds.ExtendedProperties("RowCount") = 10 ds.ExtendedProperties("RowIndex") = 0 adapter.Fill(ds)`

Correct Answer: AB

`Fill(Int32, Int32, DataTable())` Adds or refreshes rows in a DataTable to match those in the data source starting at the specified record and retrieving up to the specified maximum number of records.

(Inherited from DbDataAdapter.)

`Fill(DataSet, Int32, Int32, String)` Adds or refreshes rows in a specified range in the DataSet to match those in the data source using the DataSet and DataTable names. (Inherited from DbDataAdapter.) SqlDataAdapter Class

(<http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldataadapter.aspx>) DataTable.ExtendedProperties Gets the collection of customized user information.

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#### QUESTION 5

You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4 to create a Windows Communication Foundation (WCF) Data Services service.

You discover that when an application submits a PUT or DELETE request to the Data Services service, it receives an error.

You need to ensure that the application can access the service.

Which header and request type should you use in the application?

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



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

Correct Answer: A

The X-HTTP-Method header can be added to a POST request that signals that the server MUST process the request not as a POST, but as if the HTTP verb specified as the value of the header was used as the method on the HTTP

request's request line, as specified in [RFC2616] section 5.1. This technique is often referred to as "verb tunneling". This header is only valid when on HTTP POST requests.

X-HTTPMethod

([http://msdn.microsoft.com/en-us/library/dd541471\(v=prot.10\).aspx](http://msdn.microsoft.com/en-us/library/dd541471(v=prot.10).aspx))

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