

Module 2: C# and Databases

100% (6/6)

- ✓ 1. Which of the below choice(s) are components of a MS SQL connection string?
- ☒ A The location of the database server
 - ☒ B The name of the database
 - ☐ C The table names in the database
 - ☐ D Credentials needed to access the database
- ✓ 2. When establishing a connection to a MS SQL database in C# which object is used?
- ☐ A `string connectionString = "";`
`DatabaseConnection conn = new DatabaseConnection(connectionString);`
 - ☒ B `string connectionString = "";`
`SqlConnection conn = new SqlConnection(connectionString);`
 - ☐ C `string connectionString = "";`
`SqlCommand conn = new SqlCommand(connectionString);`
 - ☐ D `string connectionString = "";`
`Connection conn = new Connection(connectionString);`
- ✓ 3. What interface must a class implement so that it can be written within a using statement like below?
- ```
using(SqlConnection conn = new SqlConnection(connectionString))
{
 // code here
}
```
- ☐ A `IDatabaseConnection`
  - ☐ B `IConnection`
  - ☒ C `IDisposable`
  - ☐ D `IUsing`
  - ☐ E `IDontKnow`
- ✓ 4. A connection must be explicitly opened before any command can be sent to the database.
- ☒ A True
  - ☐ B False
- ✓ 5. We communicate with databases using a `SqlCommand` object. Which method should be invoked when we want to read multiple records from a database query and return to our program?

```
SqlCommand cmd = new SqlCommand("SELECT * FROM Books", connection);
// [code goes here]
```

- ☒ A `cmd.ExecuteReader();`
- ☐ B `cmd.ExecuteNonQuery();`

- ☐ C cmd.ExecuteScalar();
- ☐ D cmd.OpenReader();

✓ 6. Applying the Data Access Layer pattern makes code ...

- ☒ A Loosely coupled
- ☒ B Easily testable
- ☒ C Isolated from other code
- ☐ D More difficult to maintain
- ☐ E I don't know