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### ADO.Net Essentials

1. Which of the following is not true about ADO.NET?
  - a. ADO.NET enables to create distributed data sharing applications
  - b. ADO.NET uses XML to transfer data across applications and data source
  - c. ADO.NET doesn't support disconnected architecture
  - d. The classes of ADO.NET are defined in the System.Data namespace
2. Which of the following is the object of .NET data provider?
  - a. Connection
  - b. Command
  - c. DataReader
  - d. All of the above
3. If you must use a username and password to connect to a database, where should you store the sensitive information
  - a. Compiled in an application
  - b. In an encrypted application configuration file
  - c. In a resource file deployed in an application
  - d. In the registry
4. 

```
SqlCommand cmd = new SqlCommand();  
using (cmd) {...}
```

Question Referring to the above, what method is implicitly called at the end of the "using" statement?

  - a. Close
  - b. Cancel
  - c. Finalize
  - d. Dispose
  - e. Destructor
5. How do you create a new transaction?
  - a. Assign the transaction variable the return value of `con.BeginTransaction()`
  - b. Declare a new instance of a transaction class
  - c. Call `command.CreateTransaction`

d. Declare a new command.Transaction object

6. Whats the main purpose of the transaction

- a. To validate that multiple commands execute successfully
- b. To handle exceptions that may occur on database during command execution
- c. To abort the execution of an executed command and return data to the state it was in prior to the transaction
- d. To provide an option to abort the outcome of the executed commands and return data to the state it was in prior to the transaction

7. The kind of command used to work with read only data in ADO.Net is

- a. SqlCommand / OleDbCommand
- b. SqlDataAdapter / OleDbDataAdapter
- c. None of the above
- d. All of the above

8. The method used to execute a insert, update or delete statement on a database connection through a command object

- a. ExecuteScalar
- b. ExecuteNonQuery
- c. ExecuteReader
- d. ExecuteDML

9. Upon failure, the Open method of the connection object

- a. Return false
- b. Throws exception
- c. Writes to the log file about the failure
- d. None of the above

10. When using stored procedures in ADO.NET, which of the following is set to CommandType property

- a. CommandType.Procedure
- b. CommandType.Routine
- c. CommandType.StoredProcedure
- d. CommandType.TableDirect
- e. CommandType.Text

11. Which of the namespace is used for better performance when connecting to SQL Server in .NET?

- a. System.Data
- b. System.Data.SqlClient
- c. System.Data.OleDb
- d. System.Data.Odbc

12. When we need to retrieve only a single value from the database, which method is efficient?
- ExecuteReader()
  - ExecuteScalar()
  - ExecuteNonQuery()
  - ExecuteXMLReader()
13. What is the purpose of a DataAdapter in ADO.NET?
- To fetch data from the data source to a disconnected cache
  - To execute stored procedures
  - To update data directly in the data source
  - To connect to a database server
14. Which ADO.NET object is used to represent a set of data obtained from a database?
- DataSet
  - DataReader
  - DataTable
  - DataAdapter
15. What is the role of theConnectionString property in a SqlConnection object?
- It specifies the credentials of the database user.
  - It defines the type of database to connect to.
  - It contains information required to establish a database connection.
  - all of the above
  - It determines the data retrieval mode (connected or disconnected).
16. Which method of the DataAdapter is used to synchronize changes between a DataSet and the data source?
- Update()
  - Synchronize()
  - Refresh()
  - SyncData()
17. Which ADO.NET object is used to represent a forward-only, read-only stream of data from a data source?
- DataSet
  - DataReader
  - DataTable
  - DataAdapter
18. What is the purpose of the SqlCommandBuilder in ADO.NET?
- To create and execute SQL commands
  - To build dynamic SQL queries at runtime
  - To generate SQL commands automatically for updating data
  - To provide a connection to the database
19. What does the DataAdapter's Fill() method do in ADO.NET?
- It fills the DataSet with data from the data source.
  - It fills the DataReader with data from the data source.
  - It fills the DataTable with data from the DataSet.

- d) It fills the SqlCommand with data from the DataAdapter.
20. Which of the following is true regarding disconnected data architecture in ADO.NET?
- a) It requires a continuous connection to the database during data manipulation.
  - b) It maintains a continuous connection to the database while the application is running.
  - c) It reduces the need for a constant connection to the database during data manipulation.
  - d) It is not supported by ADO.NET.
21. Which method of the DataAdapter is used to specify the SQL command used to retrieve data from the database?
- a) GetCommand()
  - b) FillCommand()
  - c) SelectCommand()
  - d) RetrieveCommand()
22. When using ADO.NET, which method of the DataAdapter is used to update data in the data source?
- a) Update()
  - b) ExecuteNonQuery()
  - c) SaveChanges()
  - d) Commit()
23. What is the purpose of using parameterized queries in ADO.NET?
- a) To specify the database schema and table names dynamically.
  - b) To improve query performance by caching query execution plans.
  - c) To prevent SQL injection attacks and ensure data safety.
  - d) To allow multiple commands to be executed in a single transaction.
24. What is the role of the SqlCommand's ExecuteNonQuery() method in ADO.NET?
- a) To execute SQL queries that return a single value.
  - b) To execute data manipulation commands (INSERT, UPDATE, DELETE).
  - c) To retrieve data from the database and populate a DataSet.
  - d) To create a new database table based on a given schema.
25. Which of the following is NOT a valid ADO.NET Data Provider?
- a) OracleClient
  - b) SqlClient
  - c) OdbcClient
  - d) MySqlClient