

# 16 Lecture - CS506

## Important Subjective

Certainly, here are 10 subjective short questions along with their answers related to ResultSet in Java Database Connectivity (JDBC):

**\*\*Question 1: What is a ResultSet in JDBC?\***

**\*\*Answer:\*\* A ResultSet in JDBC represents the result of a database query. It holds the retrieved data in a tabular format, allowing navigation through rows and access to column values.**

**\*\*Question 2: How is a ResultSet obtained after executing a SQL query?\***

**\*\*Answer:\*\* After executing a SQL query using the `executeQuery()` method, the ResultSet is obtained from the returned `ResultSet` object. It encapsulates the query's result set, allowing data retrieval and processing.**

**\*\*Question 3: How do you navigate through the rows of a ResultSet?\***

**\*\*Answer:\*\* The `next()` method of the ResultSet interface is used to move the cursor to the next row. It returns `true` if there is a next row and `false` if there are no more rows.**

**\*\*Question 4: What is the purpose of the ResultSetMetaData interface?\***

**\*\*Answer:\*\* The ResultSetMetaData interface provides metadata about the columns and properties of a ResultSet. It includes methods to retrieve information such as column names, data types, and column count.**

**\*\*Question 5: How do you retrieve data from a ResultSet by column index and column name?\***

**\*\*Answer:\*\*** Data can be retrieved from a `ResultSet` using methods like `getString(int columnIndex)` based on the column index, or `getString(String columnName)` based on the column name.

**\*\*Question 6:** What is the default cursor position when a `ResultSet` is initially created?

**\*\*Answer:\*\*** The default cursor position of a `ResultSet` is before the first row. The `next()` method must be called to move the cursor to the first row before retrieving data.

**\*\*Question 7:** How do you close a `ResultSet` to release associated resources?

**\*\*Answer:\*\*** To close a `ResultSet` and release associated resources, you can use the `close()` method. This should be done when you no longer need the `ResultSet`.

**\*\*Question 8:** What happens if you call the `next()` method on a `ResultSet` beyond the last row?

**\*\*Answer:\*\*** If you call the `next()` method on a `ResultSet` beyond the last row, it returns `false`, indicating that there are no more rows to move to.

**\*\*Question 9:** Can a `ResultSet` be updated directly?

**\*\*Answer:\*\*** Yes, a `ResultSet` can be updated directly using methods like `updateXXX()` and then `updateRow()` to commit changes to the database.

**\*\*Question 10:** How does a `ResultSet` help in handling query results dynamically?

**\*\*Answer:\*\*** The `ResultSet` provides methods to access metadata and retrieve data from the query result. This dynamic access enables developers to work with query results without prior knowledge of the data's structure.