

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.