## 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 rov
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?**
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**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.
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**Question 8: What happens if you call the `next()` method on a ResultSet beyond the last row?**
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**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.
marcating that there are no more rows to move to.
**Question 9: Can a ResultSet be updated directly?**
Question 7. Can a Resultiset be updated directly.
** A marriagn ** Var a DagultCat can be undeted discatly using mothed like `undeteVVV()` and then
**Answer:** Yes, a ResultSet can be updated directly using methods like `updateXXX()` and then `updateRow()` to commit changes to the database.
apatients with the committeninges to the database.
**Question 10: How does a ResultSet help in handling query results dynamically?**
Question 10. How does a ResultSet help in handling query results dynamicany;
** A marrian ** The Degul4Cet massides methods to access metadets and native and data from the group
**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.