## **JDBC Quick Revision Notes**

### 1. DatabaseMetaData & ResultSetMetaData

- DatabaseMetaData: Provides info about the database structure.
  - -> Methods: getTables(), getDriverName(), getUserName(), etc.
- ResultSetMetaData: Provides info about the ResultSet returned by a guery.
  - -> Methods: getColumnCount(), getColumnName(), getColumnType(), etc.

### 2. RowSet Interface

- RowSet is an enhanced version of ResultSet with JavaBean properties.
- Types:
  - -> JdbcRowSet: Connected RowSet, similar to ResultSet.
  - -> CachedRowSet: Disconnected RowSet that can be serialized.
- Supports event listeners and is scrollable and updatable.

# 3. Savepoints

- Savepoint allows setting a checkpoint within a transaction.
- Useful to rollback part of a transaction.
- -> Savepoint sp = con.setSavepoint("point1");
- -> con.rollback(sp); // Rolls back to savepoint only

## 4. BLOB and CLOB Handling

- BLOB: Binary Large Object (e.g., images, videos).
- CLOB: Character Large Object (e.g., large text files).
- Methods:
- -> setBlob(), getBlob(), setClob(), getClob() on PreparedStatement/ResultSet

# 5. Connection Pooling Libraries (Beyond DataSource)

- Used in enterprise Java apps for managing DB connections efficiently.
- Popular libraries:
  - -> HikariCP: High-performance JDBC connection pool.

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- -> Apache DBCP: Basic connection pool.
- -> C3P0: Older, supports automatic recovery from DB failures.