

## Day 13 (Task of JDBC)

The image displays two screenshots of the Eclipse IDE, showing the development and execution of a JDBC application.

**Top Screenshot:** The IDE window shows the file `JdbcPractise.java` in the `practise` package. The code includes the following steps:

- Step 1: Load the JDBC Driver (`Class.forName("oracle.jdbc.driver.OracleDriver");`)
- Step 2: Create Statement (`Connection connection = DriverManager.getConnection("jdbc:oracle:thin:@localhost:9501/XE");`)
- Step 3: Creating Statement (`Statement st = connection.createStatement();`)
- Step 4: Execute Query (`st.executeQuery("CREATE TABLE PRODUCT( PROD_ID NUMBER(20) PRIMARY KEY, NAME VARCHAR(50)");`)
- Step 5: Inserting a new product (`st.executeUpdate("INSERT INTO PRODUCT VALUES(1,'AC',50000)");`)
- Step 6: Inserting more products (`st.executeUpdate("INSERT INTO PRODUCT VALUES(2,'TV',50000)");`, `st.executeUpdate("INSERT INTO PRODUCT VALUES(3,'REFRIDGERATOR',70000)");`, `st.executeUpdate("INSERT INTO PRODUCT VALUES(4,'HOME-THEATER',90000)");`)
- Step 7: Println("Inserted Successfully")

**Bottom Screenshot:** The IDE window shows the same file `JdbcPractise.java`, but with additional code for querying the database:

- Step 8: Execute Query (`st.executeQuery("SELECT * FROM PRODUCT");`)
- Step 9: Get ResultSet (`ResultSet rs = st.executeQuery("SELECT * FROM PRODUCT");`)
- Step 10: Get ResultSet Metadata (`ResultSetMetaData rms = rs.getMetaData();`)
- Step 11: Print Column Names (`for(int i=1;i<=rms.getColumnCount();i++) { System.out.print(rms.getColumnName(i) + " ");`)
- Step 12: Println()
- Step 13: While Loop (`while(rs.next()) { System.out.println(rs.getString(1)+" "+rs.getString(2)+" "+rs.getString(3));`)
- Step 14: Close the Connection (`connection.close();`)

The console output at the bottom shows the execution results:

```
<terminated> JdbcPractise [Java Application] /snap/eclipse/87/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.
Connection is successful
PROD_ID NAME QUANTITY
3 REFRIDGERATOR 70000
4 HOME-THEATER 90000
```