

Dt : 20/3/2025

Ex:

Program : DBCon16.java

```
package test;
import java.sql.*;
public class DBCon16 {
    public static void main(String[] args) {
        try {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con = DriverManager.getConnection

("jdbc:oracle:thin:@localhost:1521:xe", "system", "tiger");
            System.out.println("*****DatabaseMetaData*****");
            DatabaseMetaData dmd = con.getMetaData();
            System.out.println("Driver Name:"+dmd.getDriverName());
            System.out.println("Driver
Version:"+dmd.getDriverMajorVersion());
            System.out.println("*****ParameterMetaData*****");
            PreparedStatement ps = con.prepareStatement
("update Customer72 set city=? where phno=?");
            ParameterMetaData pmd = ps.getParameterMetaData();
            System.out.println("Para Count:"+pmd.getParameterCount());
            System.out.println("*****ResultSetMetaData*****");
            PreparedStatement ps2 = con.prepareStatement
("select phno,city,mid from Customer72");
            ResultSet rs = ps2.executeQuery();
            while(rs.next()) {
                System.out.println(rs.getLong(1)+"\t"
                    +rs.getString(2)+"\t"
                    +rs.getString(3));
            }
            //end of Loop
            ResultSetMetaData rsmd = rs.getMetaData();
            System.out.println("Col-Count:"+rsmd.getColumnCount());
            System.out.println("2nd Col-Name:"+rsmd.getColumnName(2));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

o/p:

*******DatabaseMetaData*******

Driver Name:Oracle JDBC driver

Driver Version:11

*******ParameterMetaData*******

Para Count:2

*******ResultSetMetaData*******

8686861234 Hyd rm@gmail.com

4545451234 Hyd r@gmail.com

Col-Count:3

2nd Col-Name:CITY

Summary of CoreJava Objects:

- 1.User defined Class Objects**
- 2.String-Objects**
- 3 WrapperClass-Objects**
- 4.Array-Objects**
- 5.Collection<E>-Objects**
- 6.Map<K,V>-Objects**
- 7.Enum<E>-Objects**

Summary of JDBC Objects:

- 1.Connection Object**
- 2.Statement Object**
- 3.PreparedStatement Object**

4.CallableStatement Object

5.ResultSet Object

(i)Scrollable ResultSet Object

(ii)NonScrollable ResultSet Object

6.DatabaseMetaData Object

7.ParameterMetaData Object

8.ResultMetaData Object

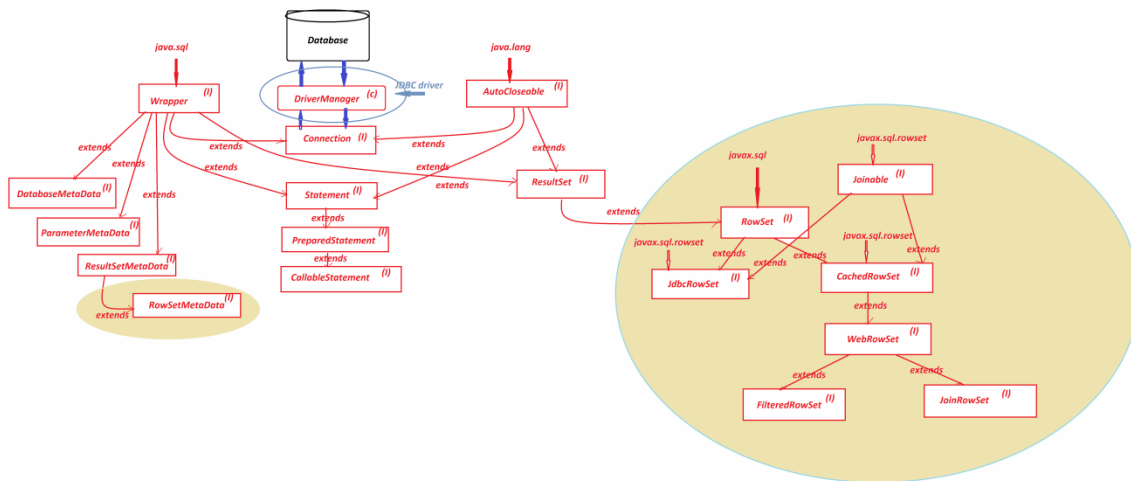
9.RowSet Object

(a)JdbcRowSet Object

(b)CachedRowSet Object

10.RowSetMetaData Object

Hierarchy of JDBC API:



Venkatesh Maipathii