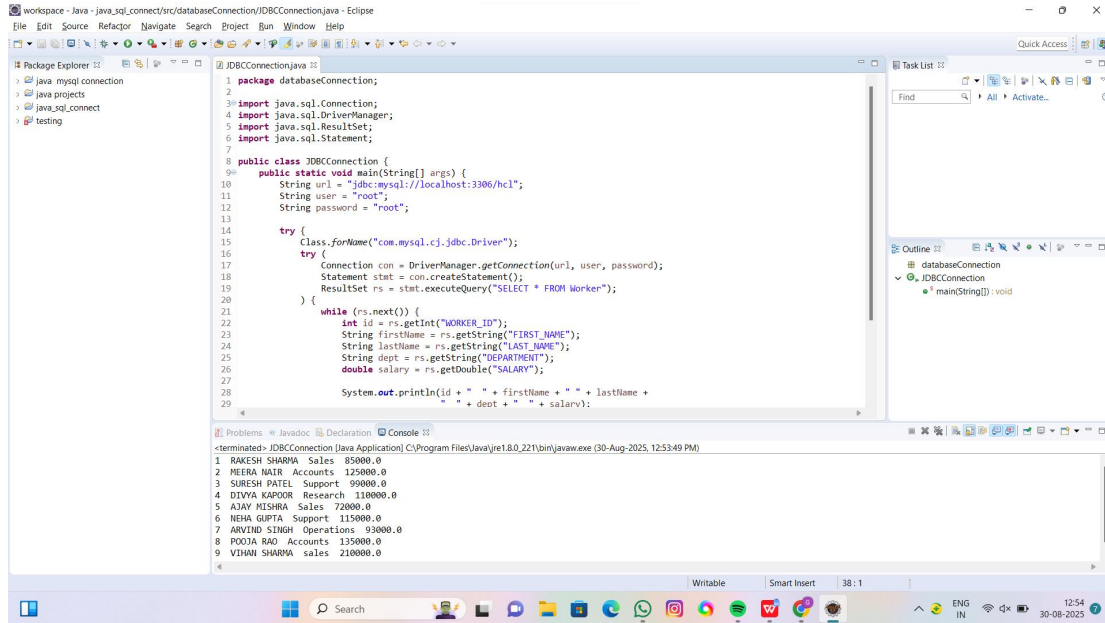


1.PROGRAM



CODE:

```
package databaseConnection;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class JDBCCConnection {
    public static void main(String[] args) {
        String url = "jdbc:mysql://localhost:3306/hcl";
        String user = "root";
        String password = "root";

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            try {
                Connection con = DriverManager.getConnection(url, user,
password);
                Statement stmt = con.createStatement();
                ResultSet rs = stmt.executeQuery("SELECT * FROM Worker");
            } {
                while (rs.next()) {
                    int id = rs.getInt("WORKER_ID");
                    String firstName = rs.getString("FIRST_NAME");
                    String lastName = rs.getString("LAST_NAME");
                    String dept = rs.getString("DEPARTMENT");
                    double salary = rs.getDouble("SALARY");

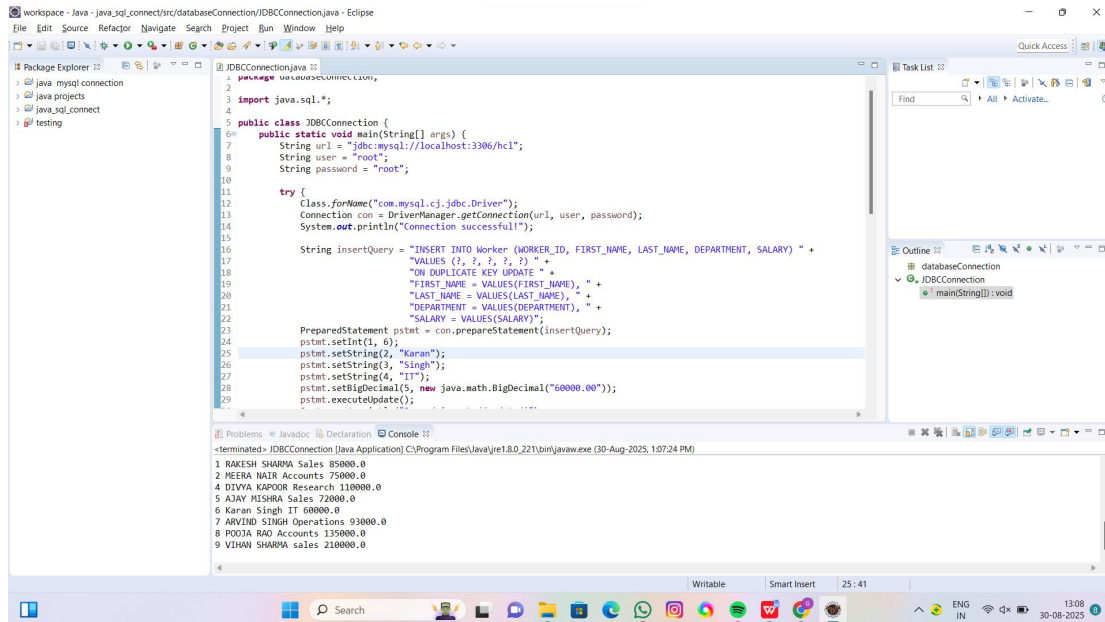
                    System.out.println(id + " " + firstName + " " +
lastName +
                                " " + dept + " " + salary);
                }
            }
        } catch (Exception e) {
            System.out.println("Error: Please check your connection or
query.");
        }
    }
}
```

```

        e.printStackTrace();
    }
}
}
}

```

2. PROGRAM (CRUD OPERATION)



CODE:

```

package databaseConnection;

import java.sql.*;

public class JDBCConnection {
    public static void main(String[] args) {
        String url = "jdbc:mysql://localhost:3306/hcl";
        String user = "root";
        String password = "root";

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection(url, user,
password);
            System.out.println("Connection successful!");

            String insertQuery = "INSERT INTO Worker (WORKER_ID, FIRST_NAME,
LAST_NAME, DEPARTMENT, SALARY) " +
                                "VALUES (?, ?, ?, ?, ?) " +
                                "ON DUPLICATE KEY UPDATE " +
                                "FIRST_NAME = VALUES(FIRST_NAME), " +
                                "LAST_NAME = VALUES(LAST_NAME), " +
                                "DEPARTMENT = VALUES(DEPARTMENT), " +
                                "SALARY = VALUES(SALARY)";

            PreparedStatement pstmt = con.prepareStatement(insertQuery);
            pstmt.setInt(1, 6);

```

```

        pstmt.setString(2, "Karan");
        pstmt.setString(3, "Singh");
        pstmt.setString(4, "IT");
        pstmt.setBigDecimal(5, new java.math.BigDecimal("60000.00"));
        pstmt.executeUpdate();
        System.out.println("Record inserted/updated!");

        Statement stmt = con.createStatement();
        ResultSet rs = stmt.executeQuery("SELECT * FROM Worker");
        System.out.println("\nCurrent records in Worker table:");
        while (rs.next()) {
            System.out.println(rs.getInt("WORKER_ID") + " " +
                               rs.getString("FIRST_NAME") + " " +
                               rs.getString("LAST_NAME") + " " +
                               rs.getString("DEPARTMENT") + " " +
                               rs.getDouble("SALARY"));
        }

        String updateQuery = "UPDATE Worker SET SALARY = ? WHERE
WORKER_ID = ?";
        pstmt = con.prepareStatement(updateQuery);
        pstmt.setDouble(1, 75000.0);
        pstmt.setInt(2, 2);
        pstmt.executeUpdate();
        System.out.println("\nRecord updated! (WORKER_ID=2
salary=75000)");

        String deleteQuery = "DELETE FROM Worker WHERE WORKER_ID = ?";
        pstmt = con.prepareStatement(deleteQuery);
        pstmt.setInt(1, 3);
        pstmt.executeUpdate();
        System.out.println("Record deleted! (WORKER_ID=3)");

        rs = stmt.executeQuery("SELECT * FROM Worker");
        System.out.println("\nFinal records in Worker table:");
        while (rs.next()) {
            System.out.println(rs.getInt("WORKER_ID") + " " +
                               rs.getString("FIRST_NAME") + " " +
                               rs.getString("LAST_NAME") + " " +
                               rs.getString("DEPARTMENT") + " " +
                               rs.getDouble("SALARY"));
        }

        con.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
}
}

```

