13. Write a Java program to display the employee id, age, first name and last name using JDBC connectivity.

Test Data: (In Database)

ID: 100, Age: 23, First: Raj, Last: SharmaID: 101, Age: 24, First: Bala, Last: SinghID: 102, Age: 25, First: Anu, Last: PriyaID: 103, Age: 26, First: Riya, Last: Khan

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

public class b {
    public static void main(String[] args) {
        try {
            // Establish database connection
            Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521/xe", "system",
"system");
            // Create SQL statement
            Statement stmt = con.createStatement();

            // Execute SQL query
            ResultSet rs = stmt.executeQuery("SELECT id, age, first_name,
last_name FROM employees");

            // Display results
            System.out.println("Employee Information:");
            while (rs.next()) {
                int employeeId = rs.getInt("id");
                int age = rs.getInt("age");
                String firstName = rs.getString("first_name");
                String lastName = rs.getString("last_name");

                System.out.println("Employee ID: " + employeeId + ", Age: " +
age + ", First Name: " + firstName + ", Last Name: " + lastName);
            }

            // Close resources
            rs.close();
            stmt.close();
            con.close();

        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
```

```
}
```

14. Using the JDBC API and any relational database make the following queries:

create a table MOVIES with columns: id of type INTEGER AUTO INCREMENT,title of type VARCHAR (255), genre of type VARCHAR (255),yearOfRelease of type INTEGER. Note that a table named MOVIE may already exist. In that case, delete it.

- add any three records to the MOVIES table
- update one selected record (use the PreparedStatement)
- delete selected record with specified id
- display all other records in the database

```
import java.sql.*;

public class a {
    public static void main(String[] args){
        try{
            Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521
/xe","system","system");

            Statement statement = con.createStatement();
            System.out.println("Database connectivity established
successfully!");

            String createTableQuery = "CREATE TABLE MOVIES (id
INT , title VARCHAR(255), genre VARCHAR(255),yearOfRelease
VARCHAR(255))";
            statement.executeUpdate(createTableQuery);
            System.out.println("Table MOVIES created
successfully!");

            String insertQuery = "INSERT INTO MOVIES
(id,title,genre,yearOfRelease) VALUES (1,'chandramukhi',
'horror','2003')";
            statement.executeUpdate(insertQuery);
            String insertq1 ="INSERT INTO MOVIES
(id,title,genre,yearOfRelease) VALUES (2,'arjunreddy',
'goddess','2019')";
            statement.executeUpdate(insertq1);
            System.out.println("Scenario 3: Data inserted
successfully!");

            String selectQuery = "SELECT * FROM MOVIES";
```

```
            ResultSet resultSet =
statement.executeQuery(selectQuery);
            System.out.println("Scenario 3: Data retrieved from
the table:");
            while (resultSet.next()) {
                System.out.println("ID: " +
resultSet.getInt("id") +
                        ", Name: " + resultSet.getString("title")
+
                        ", Age: " + resultSet.getString("genre")+
                        ",year:"+resultSet.getString("yearOfRelea
se"));
            }

            String updateQuery = "UPDATE MOVIES SET genre =
'love'WHERE title = 'arjunreddy'";
            statement.executeUpdate(updateQuery);
            System.out.println("Scenario 3: Data updated
successfully!");

            System.out.println("Scenario 3: Data deleted
successfully!");
            String deleteQuery = "DELETE FROM MOVIES WHERE title
= 'chandramukhi'";
            statement.executeUpdate(deleteQuery);

            // Re-execute the select query
            ResultSet r = statement.executeQuery(selectQuery);
            while (r.next()) {
                System.out.println("ID: " + r.getInt("id") +
                        ", Name: " + r.getString("title") +
                        ", Age: " + r.getString("genre")+
                        ",year:"+r.getString("yearOfRelease"));
            }

            String drop = "drop table MOVIES";
            statement.executeQuery(drop);
            String a = "commit";
            statement.executeQuery(a);

            resultSet.close();
            statement.close();
            con.close();

        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
```

```
}

```

Output:

```
Database connectivity established successfully!
Table MOVIES created successfully!
Scenario 3: Data inserted successfully!
Scenario 3: Data retrieved from the table:
ID: 1, Name: chandramukhi, Age: horror,year:2003
ID: 2, Name: arjunreddy, Age: goddess,year:2019
Scenario 3: Data updated successfully!
Scenario 3: Data deleted successfully!
ID: 2, Name: arjunreddy, Age: love,year:2019
PS D:\sem 6\web lab>
```