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("yearOfRelease"));
* }
* 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:

