**package** jdbc;

**import** java.sql.\*;

**import** java.util.Scanner;

**public** **class** jdbc {

**private** **static** **final** String ***URL*** = "jdbc:mysql://localhost:3307/te31252\_db";

**private** **static** **final** String ***URL*** = ”jdbc:mariadb://10.10.13.97:3306/te31252\_db” ;

**private** **static** **final** String ***USER*** = "root";

**private** **static** **final** String ***PASSWORD*** = "pvs076567";

**public** **static** **void** main(String[] args) {

**try** (Connection conn = DriverManager.*getConnection*(***URL***, ***USER***, ***PASSWORD***);

            Scanner scanner = **new** Scanner(System.***in***)) {

           System.***out***.println("Connected to the database.");

**while** (**true**) {

               System.***out***.println("\nChoose an operation:");

               System.***out***.println("1. Add User");

               System.***out***.println("2. View Users");

               System.***out***.println("3. Update User");

               System.***out***.println("4. Delete User");

               System.***out***.println("5. Exit");

**int** choice = scanner.nextInt();

               scanner.nextLine(); // Consume newline

**if** (choice == 5) {

                   System.***out***.println("Exiting...");

**break**;

               }

**switch** (choice) {

**case** 1:

                       System.***out***.print("Enter name: ");

                       String name = scanner.nextLine();

                       System.***out***.print("Enter email: ");

                       String email = scanner.nextLine();

                       String insertSQL = "INSERT INTO users (name, email) VALUES (?, ?)";

**try** (PreparedStatement pstmt = conn.prepareStatement(insertSQL)) {

                           pstmt.setString(1, name);

                           pstmt.setString(2, email);

                           pstmt.executeUpdate();

                           System.***out***.println("User added successfully.");

                       } **catch** (SQLException e) {

                           e.printStackTrace();

                       }

**break**;

**case** 2:

                       String selectSQL = "SELECT \* FROM users";

**try** (Statement stmt = conn.createStatement();

                            ResultSet rs = stmt.executeQuery(selectSQL)) {

                           System.***out***.println("Users:");

**while** (rs.next()) {

                               System.***out***.println(rs.getInt("id") + ": " + rs.getString("name") + " (" + rs.getString("email") + ")");

                           }

                       } **catch** (SQLException e) {

                           e.printStackTrace();

                       }

**break**;

**case** 3:

                       System.***out***.print("Enter user ID to update: ");

**int** idToUpdate = scanner.nextInt();

                       scanner.nextLine();

                       System.***out***.print("Enter new name: ");

                       String newName = scanner.nextLine();

                       System.***out***.print("Enter new email: ");

                       String newEmail = scanner.nextLine();

                       String updateSQL = "UPDATE users SET name = ?, email = ? WHERE id = ?";

**try** (PreparedStatement pstmt = conn.prepareStatement(updateSQL)) {

                           pstmt.setString(1, newName);

                           pstmt.setString(2, newEmail);

                           pstmt.setInt(3, idToUpdate);

**int** rowsAffected = pstmt.executeUpdate();

                           System.***out***.println(rowsAffected > 0 ? "User updated successfully." : "User not found.");

                       } **catch** (SQLException e) {

                           e.printStackTrace();

                       }

**break**;

**case** 4:

                       System.***out***.print("Enter user ID to delete: ");

**int** idToDelete = scanner.nextInt();

                       String deleteSQL = "DELETE FROM users WHERE id = ?";

**try** (PreparedStatement pstmt = conn.prepareStatement(deleteSQL)) {

                           pstmt.setInt(1, idToDelete);

**int** rowsAffected = pstmt.executeUpdate();

                           System.***out***.println(rowsAffected > 0 ? "User deleted successfully." : "User not found.");

                       } **catch** (SQLException e) {

                           e.printStackTrace();

                       }

**break**;

**default**:

                       System.***out***.println("Invalid choice. Try again.");

               }

           }

       } **catch** (SQLException e) {

           e.printStackTrace();

       }

   }

}