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 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();

}

}

}