import java.io.\*;

import java.util.\*;

import java.sql.\*;

public class MainActivity

{

    public static void main(String args[]) throws Exception

    {

    //int rno, age;

    String c1, c2, c3, c4, c5, c6;

    Connection con = null;

    Statement st = null;

    ResultSet rs = null;

    int ch;

    boolean flag = true;

    Scanner scanner = new Scanner(System.in);

    try

    {

    Class.forName("com.mysql.jdbc.Driver");

    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/student\_database","root","mmcoe");

    do

    {

    System.out.println("Enter 1 to CREATE TABLE");

    System.out.println("Enter 2 to INSERT into TABLE");

    System.out.println("Enter 3 to DELETE from TABLE");

    System.out.println("Enter 4 to UPDATE data in TABLE");

    System.out.println("Enter 5 to VIEW ALL data from TABLE");

    System.out.println("Enter your choice: ");

    ch = Integer.parseInt(scanner.nextLine());

    switch(ch)

    {

    case 1:

    System.out.println("Enter name of table to be created: ");

    String tname = scanner.nextLine();

    System.out.println("Enter first column name: ");

    c1 = scanner.nextLine();

    System.out.println("Enter second column name: ");

    c2 = scanner.nextLine();

    System.out.println("Enter third column name: ");

    c3 = scanner.nextLine();

    String sql = "CREATE TABLE " + tname + " ( " +c1+ " INTEGER not NULL, " + c2 + " VARCHAR(255), " + c3 + " VARCHAR(255))";

    st = con.createStatement();

    st.execute(sql);

    System.out.println("Table is created\n\n");

    break;

    case 2:

    System.out.println("Enter table name: ");

    String in\_tab = scanner.nextLine();

    System.out.println("Enter first column value: ");

    c4 = scanner.nextLine();

    System.out.println("Enter second column value: ");

    c5 = scanner.nextLine();

    System.out.println("Enter third column value: ");

    c6 = scanner.nextLine();

    String sql1  = "INSERT INTO " + in\_tab + " VALUES(" + c4 + ",' " + c5 + "','" + c6 + "')";

    st = con.createStatement();

    st.execute(sql1);

    System.out.println("Row created\n\n");

    break;

    case 3:

    System.out.println("Enter ID to be deleted: ");

    String id1 = scanner.nextLine();

    st = con.createStatement();

    int x = st.executeUpdate("DELETE FROM stud WHERE id = " + id1);

    System.out.println("Deleted rows are: " + x);

    break;

    case 4:

    System.out.println("Enter ID to be updated: ");

    String id2 = scanner.nextLine();

    System.out.println("Enter marks to be updated: ");

    String mks = scanner.nextLine();

    String sql2 = "UPDATE stud SET MARKS = '" + mks + "' WHERE id = " + id2;

    st = con.createStatement();

    int u = st.executeUpdate(sql2);

    System.out.println("Updated rows are: "+u);

    break;

    case 5:

    String sql3 = "SELECT \* from stud ";

    st = con.createStatement();

    rs = st.executeQuery(sql3);

    boolean rec = rs.next();

    while(!rec)

    {

    System.out.println("No records found");

    }

    do

    {

    c4 = rs.getString(1);

    c5 = rs.getString(2);

    c6 = rs.getString(3);

    System.out.println(c4 + "\t\t");

    System.out.println(c5 + "\t\t");

    System.out.println(c6 + "\t\t");

    } while(rs.next());

    break;

    }

    System.out.println("Do you want to continue? (Y/N): ");

    String ans = scanner.nextLine();

    if(ans.equals("Y") || ans.equals("y"))

    flag = true;

    if(ans.equals("N") || ans.equals("n"))

    flag = false;

    } while(flag);

    }

    catch(Exception e)

    {

    System.out.println(e);

    }

    }

}