**COMMAND LINE**

mysql> CREATE DATABASE JAVACONNECT;

Query OK, 1 row affected (0.01 sec)

mysql> USE JAVACONNECT;

Database changed

mysql> CREATE TABLE Student\_Data(Student\_Id int primary key ,Student\_Name varchar(20),Instructor\_Id int,Student\_City varchar(20));

Query OK, 0 rows affected (0.05 sec)

**Java program (SQL\_CRUD.java)**

import java.util.Scanner;  
import java.sql.\*;  
class SQL\_CRUD{  
 public void Display(){  
 try{  
 Class.*forName*("com.mysql.jdbc.Driver");  
 Connection con = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/JAVACONNECT","userdemo","USERROOT");  
 Statement stmt=con.createStatement();  
 ResultSet rs=stmt.executeQuery("select \* from Student\_Data");  
 System.*out*.println("\n");  
 while(rs.next())  
 System.*out*.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3)+" "+rs.getString(4));  
 con.close();  
 }  
 catch(Exception e){  
 System.*out*.println(e);  
 }  
 }  
  
 public void Insert(int i1,String nm,int i2,String ct){  
 try{  
 Class.*forName*("com.mysql.jdbc.Driver");  
 Connection con = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/JAVACONNECT","userdemo","USERROOT");  
 String query = "insert into Student\_Data (Student\_Id,Student\_Name,Instructor\_Id,Student\_City)" + " values("+i1+",'"+nm+"',"+i2+",'"+ct+"')";  
 PreparedStatement pstmt=con.prepareStatement(query);  
 pstmt.execute();  
 con.close();  
 }  
 catch(Exception e){  
 System.*out*.println(e);  
 }  
 }  
  
 public void Update(int i1,String nm){  
 try{  
 Class.*forName*("com.mysql.jdbc.Driver");  
 Connection con = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/JAVACONNECT","userdemo","USERROOT");  
 Statement stmt=con.createStatement();  
 int rs=stmt.executeUpdate("update Student\_Data set Student\_Name='"+nm+"' where Student\_Id="+i1+"");  
 //while(rs.next())  
 //System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3)+" "+rs.getString(4));  
 con.close();  
 }  
 catch(Exception e){  
 System.*out*.println(e);  
 }  
 }  
 public void Delete(int i1){  
 try{  
 Class.*forName*("com.mysql.jdbc.Driver");  
 Connection con = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/JAVACONNECT","userdemo","USERROOT");  
 Statement stmt=con.createStatement();  
 int rs=stmt.executeUpdate("delete from Student\_Data where Student\_Id="+i1+"");  
  
 System.*out*.println("Deleted student id="+i1);  
 con.close();  
 }  
 catch(Exception e){  
 System.*out*.println(e);  
 }  
 }  
  
 public static void main(String args[]){  
 Scanner sc=new Scanner(System.*in*);  
 SQL\_CRUD obj1=new SQL\_CRUD();  
 int ch;  
 String n1,c1;  
 int id1,id2;  
 do  
 {  
 System.*out*.println("--------------------------------------------");  
 System.*out*.println(" 1.Display all Records");  
 System.*out*.println(" 2.Insert new Record");  
 System.*out*.println(" 3.Update old Record");  
 System.*out*.println(" 4.Delete Record");  
 System.*out*.println(" 55.Exit");  
 System.*out*.println("--------------------------------------------");  
 System.*out*.println(" Enter your Choice");  
 ch=sc.nextInt();  
 switch(ch){  
 case 1: obj1.Display();  
 break;  
 case 2: System.*out*.println("Enter Student Id: ");  
 id1=sc.nextInt();  
 System.*out*.println("Enter Student Name: ");  
 n1=sc.next();  
 System.*out*.println("Enter Instructor Id: ");  
 id2=sc.nextInt();  
 System.*out*.println("Enter Student City: ");  
 c1=sc.next();  
 obj1.Insert(id1,n1,id2,c1);  
 break;  
 case 3:  
 System.*out*.println("Enter Student Id: ");  
 id1=sc.nextInt();  
 System.*out*.println("Enter Student Name: ");  
 n1=sc.next();  
 obj1.Update(id1,n1);  
 break;  
 case 4:  
 System.*out*.println("Enter Student Id: ");  
 id1=sc.nextInt();  
 obj1.Delete(id1);  
 break;  
 }  
 }while(ch!=55);  
  
 }  
}