**Group A : Lab Assignment no. 8**

**Title :** Implement MYSQL/Oracle database connectivity with PHP/ python/Java Implement Database navigation operations (add, delete, edit,)

import java.awt.\*;

import java.awt.event.\*;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.\*;

public class student extends JFrame implements

ActionListener{

JFrame f;

JLabel l1, l2,l3,l4;

JTextField t1, t2,t3;

JButton b1, b2, b3, b4, b5;

Connection c;

Statement s;

ResultSet r;

student ()

{try{

f=new JFrame("Student Form");

f.setLayout(null);f.setVisible(true);

f.setSize(700, 500);

l4=new JLabel("Student Management System");

//l4.setBounds(100,01,250,250);

l4.setBounds(100, 30, 400, 30);

f.add(l4);

l4.setForeground(Color.blue);

l4.setFont(new Font("Serif", Font.BOLD,

30));

l1=new JLabel("Stud\_RollNo");

l1.setBounds(50, 70, 100, 50);f.add(l1);

l2=new JLabel("Stud\_Name");

l2.setBounds(50, 120, 100, 50);

f.add(l2);

l3=new JLabel("Stud\_Dept");

l3.setBounds(50, 170, 100, 50);

f.add(l3);

t1=new JTextField();

t1.setBounds(150, 90, 100, 30);

f.add(t1);

t2=new JTextField();

t2.setBounds(150, 140, 100, 30);

f.add(t2);t3=new JTextField();

t3.setBounds(150, 190, 100, 30);

f.add(t3);

b1= new JButton("ADD");

b1.setBounds(200, 300, 75, 50);

f.add(b1);

b1.addActionListener(this);

b2= new JButton("EDIT");

b2.setBounds(300, 300, 75, 50);

f.add(b2);

b2.addActionListener(this);

b3= new JButton("DELETE");b3.setBounds(400, 300, 75, 50);

f.add(b3);

b3.addActionListener(this);

b5= new JButton("EXIT");

b5.setBounds(500, 300, 75, 50);

f.add(b5);

b5.addActionListener(this);

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

c=DriverManager.getConnection("jdbc:mysql://loca

lhost:3306/info","root","root");s=c.createStatement();

}catch(Exception e){System.out.println(e);}

}//ends INS Constructor

public void actionPerformed(ActionEvent ae){

try{

if(ae.getSource()==b1){String s1="INSERT

INTO result(stud\_RollNo,stud\_Name,stud\_Dept)

VALUES("+t1.getText()+",'"+t2.getText()

+"','"+t3.getText() + "')";

System.out.println(s1);

s.executeUpdate(s1);

r=s.executeQuery("SELECT \* FROM result");

t1.setText("");

t2.setText("");

t3.setText("");

}else if(ae.getSource()==b2){

String s2="UPDATE user1 SET

stud\_Name='"+t2.getText()+"' WHERE

stud\_RollNo="+t1.getText();

System.out.println(s2);

s.executeUpdate(s2);

r=s.executeQuery("SELECT \* FROM result");

t1.setText("");

t2.setText("");t3.setText("");

}else if(ae.getSource()==b3){

String s3="DELETE FROM result WHERE

stud\_RollNo="+t1.getText();

System.out.println(s3);

s.executeUpdate(s3);

r=s.executeQuery("SELECT \* FROM result");

t1.setText("");

t2.setText("");

t3.setText("");}else if(ae.getSource()==b5){System.exit(0); }

}catch(Exception e){System.out.println(e);}

}

public static void main(String args[]){

new student();

}

}

-**---------------------------------- Output --------------------------------------**

sl2-pc5@sl2pc5-HP-Compaq-4000-Pro-SFF-PC:~$

mysql -u root -p

Enter password:

Welcome to the MySQL monitor. Commands end with

; or \g.

Your MySQL connection id is 42

Server version: 5.5.61-0ubuntu0.14.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to

clear the current input statement.

mysql> create database info;

Query OK, 1 row affected (0.03 sec)

mysql> use info;

Database changed

mysql> create table result (stud\_RollNo

int,stud\_Name varchar(20),stud\_Dept

varchar(20));

Query OK, 0 rows affected (0.08 sec)

mysql> select \*from result;

+-------------+-----------+-----------+| stud\_RollNo | stud\_Name | stud\_Dept |

+-------------+-----------+-----------+

|

1 | abc

| comp

|

+-------------+-----------+-----------+

1 row in set (0.00 sec)

//ADD DATA

mysql> select \*from result;

+-------------+-----------+-----------+

| stud\_RollNo | stud\_Name | stud\_Dept |

+-------------+-----------+-----------+

|

1 | abc

| comp

|

|

2 | harsha

| comp

|

|

3 | tej

| comp

|

|

4 | rina

| mech

|

+-------------+-----------+-----------+4 rows in set (0.00 sec)

//DELETE DATA

mysql> select \*from result;

+-------------+-----------+-----------+| stud\_RollNo | stud\_Name | stud\_Dept |

+-------------+-----------+-----------+

|

2 | harsha

| comp

|

|

3 | tej

| comp

|

|

4 | rina

| mech

|

+-------------+-----------+-----------+

3 rows in set (0.00 sec)