

Assignment no. 9

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

```
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");
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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("");

```

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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)
Copyright (c) 2000, 2018, Oracle and/or its
affiliates. All rights reserved.
Oracle is a registered trademark of Oracle
Corporation and/or its affiliates. Other names may be trademarks of
their respective
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)