

Assignment No. :- 13

Problem Statement:- Write a program to implement Mongo DB database connectivity with any front-end language to implement Database navigation operations(add, delete, edit, etc.)

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

Console :-

```
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://localhost: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)
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)