**Mini Project Date:** 24/10/2018

**Aim:** Mini Project to develop a GUI for Database Management System.

**Code:**

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

import java.sql.\*;

class sum implements ActionListener{

JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11;

JTextField t1,t2,t3,t4,t5,t6,t7,t8;

JRadioButton rb1,rb2;

JComboBox cb1;

JButton b1;

ButtonGroup bg = new ButtonGroup();

// JDBC driver name and database URL

static final String JDBC\_DRIVER = "org.postgresql.Driver";

static final String DB\_URL = "jdbc:postgresql://localhost:5433/Government Funds";

// Database credentials

static final String USER = "postgres";

static final String PASS = "Shravan@123";

Connection conn = null;

Statement stmt = null;

public void actionPerformed(ActionEvent ae){

try{

//STEP 2: Register JDBC driver

Class.forName("org.postgresql.Driver");

//STEP 3: Open a connection

System.out.println("Connecting to a selected database...");

conn = DriverManager.getConnection(DB\_URL, USER, PASS);

System.out.println("Connected database successfully...");

//STEP 4: Execute a query

System.out.println("Inserting records into the table...");

stmt = conn.createStatement();

String sql = "INSERT INTO staff " +

"VALUES (8,'"+t1.getText()+"','"+t2.getText()+"','"+t3.getText()+"','"+t4.getText()+"','"+t5.getText()+"','"+t6.getText()+"','"+t8.getText()+"','25','2','Senior','21565')";

stmt.executeUpdate(sql);

System.out.println("Inserted records into the table...");

}catch(SQLException se){

//Handle errors for JDBC

se.printStackTrace();

}catch(Exception e){

//Handle errors for Class.forName

e.printStackTrace();

}finally{

//finally block used to close resources

try{

if(stmt!=null)

conn.close();

}catch(SQLException se){

}// do nothing

try{

if(conn!=null)

conn.close();

}catch(SQLException se){

se.printStackTrace();

}//end finally try

}//end try

System.out.println("Goodbye!");

}

public sum(){

JFrame f = new JFrame("ADD STAFF");

f.setSize(600,500);

f.setLocationRelativeTo(null);

f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

f.setLayout(null);

f.setResizable(false);

//Top Label

l1 = new JLabel("ADD STAFF");

l1.setBounds(210, 10, 250, 50);

l1.setFont(new Font("Serif", Font.PLAIN, 20));

//Name Part

l2 = new JLabel("First Name:");

l2.setBounds(5, 70, 70, 25);

t1 = new JTextField();

t1.setBounds(120,70,150,25);

l3 = new JLabel("Last Name:");

l3.setBounds(280, 70, 70, 25);

t2 = new JTextField();

t2.setBounds(390,70,150,25);

//email part

l4 = new JLabel("Email:");

l4.setBounds(5, 105, 70, 25);

t3 = new JTextField();

t3.setBounds(120,105,150,25);

//Mobile no part

l5 = new JLabel("Mobile No:");

l5.setBounds(5, 140, 70, 25);

t4 = new JTextField();

t4.setBounds(120,140,150,25);

//Address part1

l6 = new JLabel("Street:");

l6.setBounds(5, 190, 70, 25);

t5 = new JTextField();

t5.setBounds(120,190,150,25);

l7 = new JLabel("City:");

l7.setBounds(280, 190, 70, 25);

t6 = new JTextField();

t6.setBounds(390,190,150,25);

//Address part2

l8 = new JLabel("State:");

l8.setBounds(5, 225, 70, 25);

t7 = new JTextField();

t7.setBounds(120,225,150,25);

l9 = new JLabel("Pin-Code:");

l9.setBounds(280, 225, 70, 25);

t8 = new JTextField();

t8.setBounds(390,225,150,25);

//Submit Button.

b1 = new JButton("Submit");

b1.setBounds(450,390,100,40);

b1.addActionListener(this);

f.add(l1);

f.add(l2);

f.add(t1);

f.add(l3);

f.add(t2);

f.add(l4);

f.add(t3);

f.add(l5);

f.add(t4);

f.add(l6);

f.add(t5);

f.add(l7);

f.add(t6);

f.add(l8);

f.add(t7);

f.add(l9);

f.add(t8);

f.add(b1);

f.setVisible(true);

}

public static void main(String arg[]){

sum s = new sum();

}

}

class jdbc {

// JDBC driver name and database URL

static final String JDBC\_DRIVER = "org.postgresql.Driver";

static final String DB\_URL = "jdbc:postgresql://localhost:5433/test";

// Database credentials

static final String USER = "postgres";

static final String PASS = "Shravan@123";

Connection conn = null;

Statement stmt = null;

void insert(){

try{

//STEP 2: Register JDBC driver

Class.forName("org.postgresql.Driver");

//STEP 3: Open a connection

System.out.println("Connecting to a selected database...");

conn = DriverManager.getConnection(DB\_URL, USER, PASS);

System.out.println("Connected database successfully...");

//STEP 4: Execute a query

System.out.println("Inserting records into the table...");

stmt = conn.createStatement();

String sql = "INSERT INTO test\_tb " +

"VALUES (3,'akshay')";

stmt.executeUpdate(sql);

System.out.println("Inserted records into the table...");

}catch(SQLException se){

//Handle errors for JDBC

se.printStackTrace();

}catch(Exception e){

//Handle errors for Class.forName

e.printStackTrace();

}finally{

//finally block used to close resources

try{

if(stmt!=null)

conn.close();

}catch(SQLException se){

}// do nothing

try{

if(conn!=null)

conn.close();

}catch(SQLException se){

se.printStackTrace();

}//end finally try

}//end try

System.out.println("Goodbye!");

}//end main

}//end JDBCExample

**Output:**

