

UCS1412 – DBMS Lab
Assignment – 9

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Title: Database Connectivity

Spool File for Table Creation and PL/SQL Block:

```
SQL> CREATE TABLE EMP_PAYROLL(  
2     EID VARCHAR(5) PRIMARY KEY,  
3     ENAME VARCHAR(10),  
4     DOB DATE,  
5     SEX VARCHAR(1),  
6     DESIGNATION VARCHAR(10),  
7     BASIC NUMBER,  
8     DA NUMBER,  
9     HRA NUMBER,  
10    PF NUMBER,  
11    MC NUMBER,  
12    GROSS NUMBER,  
13    TOT_DEDUC NUMBER,  
14    NET_PAY NUMBER  
15 );
```

Table created.

```
SQL> CREATE OR REPLACE PROCEDURE CALC  
2  (ID IN EMP_PAYROLL.EID%TYPE, BASIC IN EMP_PAYROLL.BASIC%TYPE)  
3  IS  
4  DA_TEMP NUMBER;  
5  HRA_TEMP NUMBER;  
6  PF_TEMP NUMBER;  
7  MC_TEMP NUMBER;  
8  GROSS_TEMP NUMBER;  
9  TOT_DEDUC_TEMP NUMBER;  
10 NET_PAY_TEMP NUMBER;  
11 BEGIN  
12 DA_TEMP:=0.6*BASIC;  
13 HRA_TEMP:=0.11*BASIC;  
14 PF_TEMP:=0.04*BASIC;  
15 MC_TEMP:=0.03*BASIC;  
16 GROSS_TEMP:=BASIC+DA_TEMP+HRA_TEMP;  
17 TOT_DEDUC_TEMP:=PF_TEMP+MC_TEMP;  
18 NET_PAY_TEMP:=GROSS_TEMP-TOT_DEDUC_TEMP;
```

```

19 UPDATE EMP_PAYROLL
20 SET DA=DA_TEMP, HRA=HRA_TEMP, PF=PF_TEMP, MC=MC_TEMP, GROSS=GROSS_TEMP,
21 TOT_DEDUC=TOT_DEDUC_TEMP, NET_PAY=NET_PAY_TEMP
22 WHERE EID=ID;
23 END;
24 /

```

Procedure created.

Java Code of JDBC Block:

```

]
import javax.swing.*;
import java.sql.*;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;

/**
 *
 * @author 1049
 */
public class demo1 extends JFrame {

    /**
     * Creates new form demo1
     */
    Connection con;
    Statement st;
    PreparedStatement ps;
    ResultSet rs;

    public demo1() {
        initComponents();
        try{
            Class.forName("oracle.jdbc.OracleDriver");
            JOptionPane.showMessageDialog(this,"Driver Loaded!");
            try {
                con =
DriverManager.getConnection("jdbc:oracle:thin:@10.6.4.33:1521:orcl","1049","1049");
                JOptionPane.showMessageDialog(this,"Connected to Oracle database!");
            }
            catch (SQLException ex) {
                Logger.getLogger(demo1.class.getName()).log(Level.SEVERE, null, ex);
                JOptionPane.showMessageDialog(this,ex.getMessage());
            }
        }
        catch(ClassNotFoundException ex){
            Logger.getLogger(demo1.class.getName()).log(Level.SEVERE, null, ex);
            JOptionPane.showMessageDialog(this,ex.getMessage());
        }
    }
}

```

```

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated
Code">
private void initComponents() {

    SEX1 = new javax.swing.JLabel();
    EID = new javax.swing.JLabel();
    NAME = new javax.swing.JLabel();
    DOB = new javax.swing.JLabel();
    SEX = new javax.swing.JLabel();
    DESIGNATION = new javax.swing.JLabel();
    BASICPAY = new javax.swing.JLabel();
    name = new javax.swing.JTextField();
    eid = new javax.swing.JTextField();
    sex = new javax.swing.JTextField();
    dob = new javax.swing.JTextField();
    basic = new javax.swing.JTextField();
    designation = new javax.swing.JTextField();
    insert = new javax.swing.JButton();
    update = new javax.swing.JButton();
    delete = new javax.swing.JButton();
    refresh = new javax.swing.JButton();
    search = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    exit = new javax.swing.JButton();
    DA = new javax.swing.JLabel();
    HRA = new javax.swing.JLabel();
    PF = new javax.swing.JLabel();
    GROSS = new javax.swing.JLabel();
    TOTAL_DEDUCTION = new javax.swing.JLabel();
    NETPAY = new javax.swing.JLabel();
    da = new javax.swing.JTextField();
    hra = new javax.swing.JTextField();
    pf = new javax.swing.JTextField();
    gross = new javax.swing.JTextField();
    tot_deduc = new javax.swing.JTextField();
    net_pay = new javax.swing.JTextField();

    SEX1.setText("SEX");

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    EID.setText("EID");

    NAME.setText("NAME");

    DOB.setText("DATE OF BIRTH");

    SEX.setText("SEX");

```

```
DESIGNATION.setText("DESIGNATION");

BASICPAY.setText("BASIC PAY");

eid.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        eidActionPerformed(evt);
    }
});

sex.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        sexActionPerformed(evt);
    }
});

insert.setText("INSERT");
insert.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        insertActionPerformed(evt);
    }
});

update.setText("UPDATE");
update.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        updateActionPerformed(evt);
    }
});

delete.setText("DELETE");
delete.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        deleteActionPerformed(evt);
    }
});

refresh.setText("REFRESH");
refresh.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        refreshActionPerformed(evt);
    }
});

search.setText("SEARCH");
search.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        searchActionPerformed(evt);
    }
});

jLabel1.setText("EMPLOYEE DATABASE");
```

```

exit.setText("EXIT");
exit.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        exitActionPerformed(evt);
    }
});

DA.setText("DA");

HRA.setText("HRA");

PF.setText("PF");

GROSS.setText("GROSS");

TOTAL_DEDUCTION.setText("TOTAL DEDUCTION");

NETPAY.setText("NET PAY");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(61, 61, 61)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(search, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(insert, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(30, 30, 30)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                        .addComponent(refresh, javax.swing.GroupLayout.DEFAULT_SIZE,
152, Short.MAX_VALUE)
                        .addComponent(update, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                    .addGap(27, 27, 27)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                        .addComponent(delete, javax.swing.GroupLayout.DEFAULT_SIZE,
139, Short.MAX_VALUE)
                        .addComponent(exit, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))))
            .addGroup(layout.createSequentialGroup()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(139, 139, 139)
                        .addComponent(exit, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
                    .addGroup(layout.createSequentialGroup()
                        .addGap(61, 61, 61)
                        .addComponent(insert, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
                .addGap(61, 61, 61)
                .addComponent(search, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGap(61, 61, 61)
        )
        .addGroup(layout.createSequentialGroup()
            .addGap(61, 61, 61)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(61, 61, 61)
                    .addComponent(insert, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(61, 61, 61)
                    .addComponent(search, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
            .addGap(61, 61, 61)
        )
        .addGroup(layout.createSequentialGroup()
            .addGap(61, 61, 61)
            .addComponent(exit, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGap(61, 61, 61)
        )
    )
    .addGap(61, 61, 61)
);

```

```

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

            .addComponent(BASICPAY,
                javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(DSIGNATION,
                javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(SEX,
                javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(DOB,
                javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(NAME,
                javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(EID,
                javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(layout.createSequentialGroup()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                    .addComponent(dob,
                        javax.swing.GroupLayout.PREFERRED_SIZE, 111, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(name,
                        javax.swing.GroupLayout.PREFERRED_SIZE, 111, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(eid,
                        javax.swing.GroupLayout.PREFERRED_SIZE, 111, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                    .addComponent(PF,
                        javax.swing.GroupLayout.PREFERRED_SIZE, 84, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

                        .addComponent(HRA,
                            javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, 84, Short.MAX_VALUE)
                        .addComponent(DA,
                            javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
                .addGroup(layout.createSequentialGroup()

                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                        .addComponent(sex,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 111, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(designation,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 111, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(basic,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 111, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                            .addComponent(NETPAY,
                                javax.swing.GroupLayout.PREFERRED_SIZE, 84, javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addGroup(layout.createParallelGroup(javax.swing.
GroupLayout.Alignment.LEADING, false)
        .addComponent(TOTAL_DEDUCTION,
javax.swing.GroupLayout.PREFERRED_SIZE, 1, Short.MAX_VALUE)
        .addComponent(GROSS,
javax.swing.GroupLayout.DEFAULT_SIZE, 84, Short.MAX_VALUE))))))
        .addGroup(layout.createSequentialGroup()
        .addGap(176, 176, 176)
        .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 124, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(31, 31, 31)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.TRAILING)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING, false)
        .addComponent(hra)
        .addComponent(pf)
        .addComponent(gross)
        .addComponent(tot_deduc)
        .addComponent(net_pay,
javax.swing.GroupLayout.DEFAULT_SIZE, 121, Short.MAX_VALUE))
        .addComponent(da, javax.swing.GroupLayout.PREFERRED_SIZE, 121,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(0, 0, Short.MAX_VALUE)))
        .addGap(57, 57, 57))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)
        .addComponent(EID)
        .addComponent(eid, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(DA)
        .addComponent(da, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(12, 12, 12)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)
        .addComponent(NAME)
        .addComponent(name, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(HRA)
        .addComponent(hra, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)

```

```

        .addComponent(DOB, javax.swing.GroupLayout.PREFERRED_SIZE, 20,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(dob)
        .addComponent(PF)
        .addComponent(pf, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)

        .addComponent(SEX)
        .addComponent(sex, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(GROSS)
        .addComponent(gross, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(11, 11, 11)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)

        .addComponent(DSIGNATION)
        .addComponent(designation)
        .addComponent(TOTAL_DEDUCTION)
        .addComponent(tot_deduc, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)

        .addComponent(BASICPAY)
        .addComponent(basic, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(NETPAY)
        .addComponent(net_pay, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(54, 54, 54)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)

        .addComponent(insert)
        .addComponent(update)
        .addComponent(delete))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)

        .addComponent(refresh)
        .addComponent(search)
        .addComponent(exit))
        .addGap(19, 19, 19))
    );

    pack();
} // </editor-fold>

private void eidActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:

```



```

}

private void refresh(){
    eid.setText("");
    name.setText("");
    designation.setText("");
    basic.setText("");
    dob.setText("");
    sex.setText("");
}

private void calcf(String eid, String basic){
    try{
        String sql="call calc(?,?)";
        ps=con.prepareStatement(sql);
        ps.setString(1,eid);
        ps.setString(2, basic);
        ps.execute();
    }
    catch(SQLException ex){
        Logger.getLogger(demo1.class.getName()).log(Level.SEVERE, null, ex);
        JOptionPane.showMessageDialog(this, ex.getMessage());
    }
}

private void refreshActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:

    refresh();

}

private void sexActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:
}

private void insertActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:
    try {
        String sql = "insert into emp_payroll
values(?,?,?,?,?,?,?,NULL,NULL,NULL,NULL,NULL,NULL)";
        ps = con.prepareStatement(sql);
        ps.setString(1, eid.getText());
        ps.setString(2, name.getText());
        ps.setString(3, dob.getText());
        ps.setString(4, sex.getText());
        ps.setString(5, designation.getText());
        ps.setString(6, basic.getText());
        ps.execute();
        calcf(eid.getText(),basic.getText());
        JOptionPane.showMessageDialog(this,"Inserted!");
        refresh();
    }
}

```

```

    }
    catch (SQLException ex) {
        Logger.getLogger(demo1.class.getName()).log(Level.SEVERE, null, ex);
        JOptionPane.showMessageDialog(this, ex.getMessage());
    }
}

private void deleteActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:
    try{
        String sql = "delete from emp_payroll where eid=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, eid.getText());
        ps.execute();
        JOptionPane.showMessageDialog(this, "Deleted!");
        refresh();
    }
    catch (SQLException ex) {
        Logger.getLogger(demo1.class.getName()).log(Level.SEVERE, null, ex);
        JOptionPane.showMessageDialog(this, ex.getMessage());
    }
}

private void exitActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:
    System.exit(0);
}

private void searchActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:
    try {
        String sql = "select * from emp_payroll where eid = '"+eid.getText()+"'";
        st =
con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE);
        rs = st.executeQuery(sql);
        if(rs.next()){
            eid.setText(rs.getString(1));
            name.setText(rs.getString(2));
            dob.setText(rs.getString(3));
            sex.setText(rs.getString(4));
            designation.setText(rs.getString(5));
            basic.setText(rs.getString(6));
            da.setText(rs.getString(7));
            hra.setText(rs.getString(8));
            gross.setText(rs.getString(9));
            pf.setText(rs.getString(10));
            tot_deduc.setText(rs.getString(11));
            net_pay.setText(rs.getString(12));
            //String s=rs.getString(13);
            JOptionPane.showMessageDialog(this, "Record Found!");

```

```

    }
    else
        JOptionPane.showMessageDialog(this, "Record Not Found!");
    }
    catch (SQLException ex) {
        Logger.getLogger(demo1.class.getName()).log(Level.SEVERE, null, ex);
        JOptionPane.showMessageDialog(this, ex.getMessage());
    }
}

private void updateActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:
    try{
        String sql = "update emp_payroll set ename=?,dob=?,sex=?,designation=?,basic=?
where eid=?";
        ps = con.prepareStatement(sql);
        ps.setString(6, eid.getText());
        ps.setString(1, name.getText());
        ps.setString(2, dob.getText());
        ps.setString(3, sex.getText());
        ps.setString(4, designation.getText());
        ps.setString(5, basic.getText());
        ps.execute();
        calcf(eid.getText(),basic.getText());
        JOptionPane.showMessageDialog(this, "Updated!");
        refresh();
    }
    catch (SQLException ex) {
        Logger.getLogger(demo1.class.getName()).log(Level.SEVERE, null, ex);
        JOptionPane.showMessageDialog(this,ex.getMessage());
    }
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus Look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code
(optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default
Look and feel.
    * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    }
}

```

```

        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(demo1.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(demo1.class.getName()).log(java.util.logging
Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(demo1.class.getName()).log(java.util.logging
Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(demo1.class.getName()).log(java.util.logging
Level.SEVERE, null, ex);
        }
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new demo1().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JLabel BASICPAY;
private javax.swing.JLabel DA;
private javax.swing.JLabel DESIGNATION;
private javax.swing.JLabel DOB;
private javax.swing.JLabel EID;
private javax.swing.JLabel GROSS;
private javax.swing.JLabel HRA;
private javax.swing.JLabel NAME;
private javax.swing.JLabel NETPAY;
private javax.swing.JLabel PF;
private javax.swing.JLabel SEX;
private javax.swing.JLabel SEX1;
private javax.swing.JLabel TOTAL_DEDUCTION;
private javax.swing.JTextField basic;
private javax.swing.JTextField da;
private javax.swing.JButton delete;
private javax.swing.JTextField designation;
private javax.swing.JTextField dob;
private javax.swing.JTextField eid;
private javax.swing.JButton exit;
private javax.swing.JTextField gross;
private javax.swing.JTextField hra;
private javax.swing.JButton insert;
private javax.swing.JLabel jLabel1;
private javax.swing.JTextField name;
private javax.swing.JTextField net_pay;
private javax.swing.JTextField pf;
private javax.swing.JButton refresh;
private javax.swing.JButton search;
private javax.swing.JTextField sex;

```

```

private javax.swing.JTextField tot_deduc;
private javax.swing.JButton update;
// End of variables declaration

private void log(Level SEVERE, Object object, SQLException ex) {
    throw new UnsupportedOperationException("Not supported yet."); //To change body of
generated methods, choose Tools | Templates.
}
}

```

Screenshots:

The screenshot shows a Java Swing application window titled "EMPLOYEE DATABASE...". The window contains a form with the following fields and values:


Field	Value
EID	E005
NAME	Chris
DATE OF BIRTH	
SEX	
DESIGNATION	
BASIC PAY	

Below the form are six buttons: INSERT, UPDATE, DELETE, SEARCH, REFRESH, and EXIT. A "Message" dialog box is overlaid on the form, displaying an information icon and the text "Record Found!". The dialog box has an "OK" button.

EMPLOYEE DATABA...

EID	E005	DA	
NAME	Chris	HRA	
DATE OF BIRTH			
SEX			
DESIGNATION			
BASIC PAY			

Message

 Inserted!

OK


INSERT UPDATE DELETE

SEARCH REFRESH EXIT

EMPLOYEE DATABA...

EID	E005	DA	9000
NAME	Chris	HRA	1650
DATE OF BIRTH	12-Dec-1980	PF	450
SEX	M	GROSS	600
DESIGNATION	Officer	TOTAL DEDU...	25650
BASIC PAY	15000	NET PAY	1050

Message

 Updated!

OK

INSERT UPDATE DELETE

SEARCH REFRESH EXIT

Network

EMPLOYEE DATABA...

EID	E005	DA	9000
NAME		HRA	1650
DATE OF BIRTH			50
SEX			00
DESIGNATION			5650
BASIC PAY			050

Message

i

Deleted!

OK

INSERT

UPDATE

DELETE

SEARCH

REFRESH

EXIT