FRONT-END: NET BEANS IDE

```
package ex09;
import javax.swing.*;
import java.sql.*;
import java.sql.Statement.*;
public class employee extends javax.swing.JFrame {
    Connection con;
    Statement st;
    PreparedStatement stmt;
    ResultSet rs;
    CallableStatement cstmt;
    int i;
    public employee() {
        initComponents();
        try{
        Class.forName("oracle.jdbc.driver.OracleDriver");
        JOptionPane.showMessageDialog(this,"Driver
Loaded...");
        try{
            con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521
:orcl", "system", "vaishali");
            JOptionPane.showMessageDialog(this, "Connected to
Oracle Database...");
        catch(SQLException ex)
         JOptionPane.showMessageDialog(this,ex.getMessage());
        }
        catch(ClassNotFoundException ex)
JOptionPane.showMessageDialog(this,ex.getMessage());
    @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated
Code">
   private void initComponents() {
        jPanel2 = new javax.swing.JPanel();
        jLabel22 = new javax.swing.JLabel();
        ¡Panel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
```

```
jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jTextField3 = new javax.swing.JTextField();
        jTextField4 = new javax.swing.JTextField();
        jTextField5 = new javax.swing.JTextField();
        jTextField6 = new javax.swing.JTextField();
        Insert = new javax.swing.JButton();
        Update = new javax.swing.JButton();
        Delete = new javax.swing.JButton();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        jLabel11 = new javax.swing.JLabel();
        jLabel12 = new javax.swing.JLabel();
        jLabel13 = new javax.swing.JLabel();
        jLabel20 = new javax.swing.JLabel();
        jLabel14 = new javax.swing.JLabel();
        jLabel15 = new javax.swing.JLabel();
        jLabel16 = new javax.swing.JLabel();
        jLabel18 = new javax.swing.JLabel();
        jLabel19 = new javax.swing.JLabel();
        jLabel21 = new javax.swing.JLabel();
        jLabel17 = new javax.swing.JLabel();
        Search PayRoll = new javax.swing.JButton();
        Exit = new javax.swing.JButton();
        Reset = new javax.swing.JButton();
        javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
        jPanel2.setLayout(jPanel2Layout);
        ¡Panel2Layout.setHorizontalGroup(
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
            .addGap(0, 100, Short.MAX VALUE)
        );
        jPanel2Layout.setVerticalGroup(
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
            .addGap(0, 100, Short.MAX VALUE)
        );
        jLabel22.setText("jLabel22");
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT ON
CLOSE);
        jLabel1.setText("EID");
        jLabel2.setText("ENAME");
        jLabel3.setText("DOB");
        jLabel4.setText("SEX");
        jLabel5.setText("DESIGNATION");
        jLabel6.setText("BASIC PAY");
        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);
        });
jLabel7.setHorizontalAlignment(javax.swing.SwingConstants.CEN
TER);
        jLabel7.setText("EMPLOYEE DATABASE SYSTEM");
        jLabel8.setText("DA");
```

```
jLabel9.setText("HRA");
        jLabel10.setText("PF");
        jLabel11.setText("MC");
        jLabel12.setText("GROSS PAY");
        jLabel13.setText("TOTAL DEDUCTION");
        jLabel20.setText("NET PAY");
        jLabel14.setToolTipText("");
jLabel14.setBorder(javax.swing.BorderFactory.createBevelBorde
r(javax.swing.border.BevelBorder.RAISED));
        jLabel15.setToolTipText("0");
jLabel15.setBorder(javax.swing.BorderFactory.createBevelBorde
r(javax.swing.border.BevelBorder.RAISED));
jLabel16.setBorder(javax.swing.BorderFactory.createBevelBorde
r(javax.swing.border.BevelBorder.RAISED));
jLabel18.setBorder(javax.swing.BorderFactory.createBevelBorde
r(javax.swing.border.BevelBorder.RAISED));
jLabel19.setBorder(javax.swing.BorderFactory.createBevelBorde
r(javax.swing.border.BevelBorder.RAISED));
jLabel21.setBorder(javax.swing.BorderFactory.createBevelBorde
r(javax.swing.border.BevelBorder.RAISED));
jLabel17.setBorder(javax.swing.BorderFactory.createBevelBorde
r(javax.swing.border.BevelBorder.RAISED));
        Search PayRoll.setText("SEARCH / VIEW PAY ROLL");
        Search PayRoll.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                Search PayRollActionPerformed(evt);
```

```
});
        Exit.setText("EXIT");
        Exit.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                ExitActionPerformed(evt);
        });
        Reset.setText("RESET");
        Reset.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                ResetActionPerformed(evt);
        });
        javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
.addContainerGap(javax.swing.GroupLayout.DEFAULT SIZE,
Short.MAX VALUE)
                .addComponent(jLabel7,
javax.swing.GroupLayout.PREFERRED SIZE, 284,
javax.swing.GroupLayout.PREFERRED SIZE)
                .addGap(0, 0, Short.MAX VALUE))
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
¡Panel1Layout.createSequentialGroup()
                .addGap(34, 34, 34)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING)
.addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING, false)
                                 .addComponent(jLabel1,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                                 .addComponent(jLabel2,
javax.swing.GroupLayout.DEFAULT SIZE, 140, Short.MAX VALUE)
                                 .addComponent(jLabel3,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE))
                             .addComponent(jLabel4,
javax.swing.GroupLayout.PREFERRED SIZE, 140,
javax.swing.GroupLayout.PREFERRED SIZE)
                             .addComponent(jLabel5,
javax.swing.GroupLayout.PREFERRED SIZE, 140,
javax.swing.GroupLayout.PREFERRED SIZE)
                             .addComponent(jLabel6,
javax.swing.GroupLayout.PREFERRED_SIZE, 140,
javax.swing.GroupLayout.PREFERRED SIZE))
                        .addGap(44, 44, 44)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING, false)
                             .addComponent(jTextField1)
                             .addComponent(jTextField2)
                             .addComponent(jTextField3)
                             .addComponent(jTextField4,
javax.swing.GroupLayout.Alignment.TRAILING)
                             .addComponent(jTextField5)
                             .addComponent(jTextField6,
javax.swing.GroupLayout.DEFAULT SIZE, 161, Short.MAX VALUE)))
.addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(35, 35, 35)
                        .addComponent(Insert)
                        .addGap(63, 63, 63)
                         .addComponent(Update)
                        .addGap(77, 77, 77)
                         .addComponent(Delete)))
                .addGap(47, 47, 47)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.TRAILING)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING, false)
                        .addComponent(jLabel20,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
```

```
.addComponent(jLabel8,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                        .addComponent(jLabel9,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                        .addComponent(jLabel10,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                        .addComponent(jLabel11,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                        .addComponent(jLabel12,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                        .addComponent(jLabel13,
javax.swing.GroupLayout.DEFAULT SIZE, 152, Short.MAX VALUE))
                    .addComponent(Search PayRoll))
                .addGap(31, 31, 31)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.TRAILING)
.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup()
                        .addGap(61, 61, 61)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING)
                            .addComponent(jLabel14,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                             .addComponent(jLabel15,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                             .addComponent(jLabel16,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jLabel18,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                             .addComponent(jLabel19,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                            .addComponent(jLabel21,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                            .addComponent(jLabel17,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)))
```

```
.addGroup(jPanel1Layout.createSequentialGroup()
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.R
ELATED, 7, Short.MAX VALUE)
                        .addComponent(Reset)
                        .addGap(57, 57, 57)
                        .addComponent(Exit)
                         .addGap(26, 26, 26)))
                .addContainerGap())
        );
        jPanel1Layout.setVerticalGroup(
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel7,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.R
ELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.TRAILING)
.addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.TRAILING)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING, false)
                                 .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED SIZE, 34,
javax.swing.GroupLayout.PREFERRED SIZE)
                                 .addComponent(jLabel1,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE))
                            .addComponent(jLabel14,
javax.swing.GroupLayout.PREFERRED SIZE, 29,
javax.swing.GroupLayout.PREFERRED SIZE))
                        .addGap(27, 27, 27)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.BASELINE)
                            .addComponent(jTextField2,
javax.swing.GroupLayout.PREFERRED SIZE, 33,
javax.swing.GroupLayout.PREFERRED SIZE)
```

```
.addComponent(jLabel2,
javax.swing.GroupLayout.PREFERRED SIZE, 36,
javax.swing.GroupLayout.PREFERRED SIZE)))
.addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jLabel8,
javax.swing.GroupLayout.PREFERRED SIZE, 39,
javax.swing.GroupLayout.PREFERRED SIZE)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.U
NRELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.BASELINE)
                            .addComponent(jLabel9,
javax.swing.GroupLayout.PREFERRED SIZE, 36,
javax.swing.GroupLayout.PREFERRED SIZE)
                            .addComponent(jLabel15,
javax.swing.GroupLayout.PREFERRED SIZE, 26,
javax.swing.GroupLayout.PREFERRED SIZE))))
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING)
.addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(27, 27, 27)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.BASELINE)
                            .addComponent(jTextField3,
javax.swing.GroupLayout.PREFERRED SIZE, 32,
javax.swing.GroupLayout.PREFERRED SIZE)
                             .addComponent(jLabel3,
javax.swing.GroupLayout.PREFERRED SIZE, 38,
javax.swing.GroupLayout.PREFERRED SIZE))
                        .addGap(18, 18, 18)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.BASELINE)
                            .addComponent(jTextField4,
javax.swing.GroupLayout.PREFERRED SIZE, 35,
javax.swing.GroupLayout.PREFERRED SIZE)
                            .addComponent(jLabel4,
javax.swing.GroupLayout.PREFERRED SIZE, 35,
javax.swing.GroupLayout.PREFERRED SIZE))
                        .addGap(27, 27, 27)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING)
```

```
.addComponent(jTextField5,
javax.swing.GroupLayout.PREFERRED SIZE, 40,
javax.swing.GroupLayout.PREFERRED SIZE)
                            .addComponent(jLabel5,
javax.swing.GroupLayout.PREFERRED SIZE, 32,
javax.swing.GroupLayout.PREFERRED SIZE))
                        .addGap(18, 18, 18)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.TRAILING)
                            .addComponent(jLabel6,
javax.swing.GroupLayout.PREFERRED SIZE, 38,
javax.swing.GroupLayout.PREFERRED SIZE)
.addGroup(jPanel1Layout.createSequentialGroup()
                                 .addComponent(jTextField6,
javax.swing.GroupLayout.PREFERRED SIZE, 36,
javax.swing.GroupLayout.PREFERRED SIZE)
                                 .addGap(8, 8, 8)))
                        .addGap(69, 69, 69)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.BASELINE)
                             .addComponent(Insert)
                             .addComponent(Update)
                             .addComponent(Delete)
                             .addComponent(Search PayRoll)
                             .addComponent(Exit)
                             .addComponent(Reset)))
.addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(18, 18, 18)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.TRAILING, false)
                             .addComponent(jLabel10,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT SIZE, 28, Short.MAX VALUE)
                             .addComponent(jLabel16,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE))
                        .addGap(18, 18, 18)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.BASELINE)
                             .addComponent(jLabel11,
javax.swing.GroupLayout.PREFERRED SIZE, 35,
javax.swing.GroupLayout.PREFERRED SIZE)
```

```
.addComponent(jLabel17,
javax.swing.GroupLayout.PREFERRED SIZE, 28,
javax.swing.GroupLayout.PREFERRED SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.U
NRELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.BASELINE)
                            .addComponent(jLabel12,
javax.swing.GroupLayout.PREFERRED SIZE, 40,
javax.swing.GroupLayout.PREFERRED SIZE)
                            .addComponent(jLabel18,
javax.swing.GroupLayout.PREFERRED SIZE, 29,
javax.swing.GroupLayout.PREFERRED SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.U
NRELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING)
                            .addComponent (jLabel13,
javax.swing.GroupLayout.PREFERRED SIZE, 36,
javax.swing.GroupLayout.PREFERRED SIZE)
                            .addComponent(jLabel19,
javax.swing.GroupLayout.PREFERRED SIZE, 29,
javax.swing.GroupLayout.PREFERRED SIZE))
                        .addGap(18, 18, 18)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.BASELINE)
                            .addComponent(jLabel20,
javax.swing.GroupLayout.PREFERRED SIZE, 31,
javax.swing.GroupLayout.PREFERRED SIZE)
                            .addComponent(jLabel21,
javax.swing.GroupLayout.PREFERRED SIZE, 31,
javax.swing.GroupLayout.PREFERRED SIZE))))
                .addContainerGap(28, Short.MAX VALUE))
        );
        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(35, 35, 35)
```

```
.addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.PREFERRED SIZE)
                .addContainerGap(64, Short.MAX VALUE))
        );
        layout.setVerticalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
                .addContainerGap())
        );
        pack();
    }// </editor-fold>
    private void
InsertActionPerformed(java.awt.event.ActionEvent evt) {
      try{
        cstmt = con.prepareCall("{call
netpay calc(?,?,?,?,?,?,?,?)}");
        cstmt.setInt(1,
Integer.parseInt(jTextField1.getText()));
        cstmt.setFloat(2,
Float.parseFloat(jTextField6.getText()));
        cstmt.registerOutParameter(3, Types.FLOAT);
        cstmt.registerOutParameter(4, Types.FLOAT);
        cstmt.registerOutParameter(5, Types.FLOAT);
        cstmt.registerOutParameter(6, Types.FLOAT);
        cstmt.registerOutParameter(7, Types.FLOAT);
        cstmt.registerOutParameter(8, Types.FLOAT);
        cstmt.registerOutParameter(9, Types.FLOAT);
        cstmt.executeUpdate();
        Float da=cstmt.getFloat(3),
        hra=cstmt.getFloat(4),
        mc=cstmt.getFloat(5),
        pf=cstmt.getFloat(6),
        gross=cstmt.getFloat(7),
        tot deduc=cstmt.getFloat(8),
        net pay=cstmt.getFloat(9);
        stmt=con.prepareStatement("insert into emp payroll
values(?,?,?,?,?,?,?,?,?,?)");
```

```
stmt.setInt(1,Integer.parseInt(jTextField1.getText()));
        stmt.setString(2,jTextField2.getText());
        stmt.setString(3,jTextField3.getText());
        stmt.setString(4,jTextField4.getText());
        stmt.setString(5,jTextField5.getText());
stmt.setFloat(6,Float.parseFloat(jTextField6.getText()));
        stmt.setFloat(7, da);
        stmt.setFloat(8, hra);
        stmt.setFloat(9, pf);
        stmt.setFloat(10,mc);
        stmt.setFloat(11,gross);
        stmt.setFloat(12,tot deduc);
        stmt.setFloat(13, net pay);
        i=stmt.executeUpdate();
        JOptionPane.showMessageDialog(this,i+" record(s)
inserted..... ");
      catch(SQLException ex) {
      JOptionPane.showMessageDialog(this,ex.getMessage());
    }
    private void
UpdateActionPerformed(java.awt.event.ActionEvent evt) {
        cstmt = con.prepareCall("{call
netpay calc(?,?,?,?,?,?,?,?)}");
        cstmt.setInt(1,
Integer.parseInt(jTextField1.getText()));
        cstmt.setFloat(2,
Float.parseFloat(jTextField6.getText()));
        cstmt.registerOutParameter(3, Types.FLOAT);
        cstmt.registerOutParameter(4, Types.FLOAT);
        cstmt.registerOutParameter(5, Types.FLOAT);
        cstmt.registerOutParameter(6, Types.FLOAT);
        cstmt.registerOutParameter(7, Types.FLOAT);
        cstmt.registerOutParameter(8, Types.FLOAT);
        cstmt.registerOutParameter(9, Types.FLOAT);
        cstmt.executeUpdate();
        Float da=cstmt.getFloat(3),
        hra=cstmt.getFloat(4),
        mc=cstmt.getFloat(5),
        pf=cstmt.getFloat(6),
        gross=cstmt.getFloat(7),
        tot deduc=cstmt.getFloat(8),
        net pay=cstmt.getFloat(9);
```

```
stmt=con.prepareStatement("update emp payroll set
designation=?, basic=?, da=?, hra=?, pf=?, mc=?, gross=?, tot deduc=
?,net pay=? where eid=?");
        stmt.setString(1,jTextField5.getText());
stmt.setFloat(2,Float.parseFloat(jTextField6.getText()));
        stmt.setFloat(3, da);
        stmt.setFloat(4, hra);
        stmt.setFloat(5, pf);
        stmt.setFloat(6,mc);
        stmt.setFloat(7,gross);
        stmt.setFloat(8, tot deduc);
        stmt.setFloat(9,net pay);
stmt.setInt(10,Integer.parseInt(jTextField1.getText()));
        i=stmt.executeUpdate();
        JOptionPane.showMessageDialog(this,i+" record(s)
updated.....");
      catch(SQLException ex){
    JOptionPane.showMessageDialog(this,ex.getMessage());
            // TODO add your handling code here:
   private void
DeleteActionPerformed(java.awt.event.ActionEvent evt) {
        stmt=con.prepareStatement("delete from emp payroll
where eid=?");
stmt.setInt(1,Integer.parseInt(jTextField1.getText()));
        i=stmt.executeUpdate();
        JOptionPane.showMessageDialog(this,i+" record(s)
deleted..... ");
      catch(SQLException ex){
      JOptionPane.showMessageDialog(this,ex.getMessage());
      } // TODO add your handling code here:
    }
    private void
Search PayRollActionPerformed(java.awt.event.ActionEvent evt)
        stmt=con.prepareStatement("select * from emp payroll
where eid=?");
stmt.setInt(1,Integer.parseInt(jTextField1.getText()));
        rs=stmt.executeQuery();
```

```
if(rs.next())
       jTextField1.setText(Integer.toString(rs.getInt(1)));
       jTextField2.setText(rs.getString(2));
       jTextField3.setText(rs.getString(3));
       iTextField4.setText(rs.getString(4));
       jTextField5.setText(rs.getString(5));
       jTextField6.setText(Float.toString(rs.getFloat(6)));
       jLabel14.setText(Float.toString(rs.getFloat(7)));
       jLabel15.setText(Float.toString(rs.getFloat(8)));
       jLabel16.setText(Float.toString(rs.getFloat(9)));
       jLabel17.setText(Float.toString(rs.getFloat(10)));
       jLabel18.setText(Float.toString(rs.getFloat(11)));
       jLabel19.setText(Float.toString(rs.getFloat(12)));
       jLabel21.setText(Float.toString(rs.getFloat(13)));
       JOptionPane.showMessageDialog(this, "record found.....
");
      }
        else
        JOptionPane.showMessageDialog(this, "record not found
..... ");
        }
      }
      catch(SQLException ex) {
JOptionPane.showMessageDialog(this,ex.getMessage());
      } // TODO add your handling code here:
    }
    private void
ExitActionPerformed(java.awt.event.ActionEvent evt) {
        System.exit(0);
                                    }
    private void
ResetActionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1.setText("");
        iTextField2.setText("");
        jTextField3.setText("");
        jTextField4.setText("");
        jTextField5.setText("");
        jTextField6.setText("");
        jLabel14.setText("");
        jLabel14.setText("");
        jLabel15.setText("");
        jLabel16.setText("");
        jLabel17.setText("");
        jLabel18.setText("");
        jLabel19.setText("");
```

```
jLabel21.setText("");
    }
    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/lookandfee
1/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(employee.class.getName()).
log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(employee.class.getName()).
log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(employee.class.getName()).
log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException
ex) {
java.util.logging.Logger.getLogger(employee.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 employee().setVisible(true);
        });
    }
```

```
// Variables declaration - do not modify
    private javax.swing.JButton Delete;
    private javax.swing.JButton Exit;
    private javax.swing.JButton Insert;
    private javax.swing.JButton Reset;
    private javax.swing.JButton Search PayRoll;
    private javax.swing.JButton Update;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel12;
    private javax.swing.JLabel jLabel13;
    private javax.swing.JLabel jLabel14;
    private javax.swing.JLabel jLabel15;
    private javax.swing.JLabel jLabel16;
    private javax.swing.JLabel jLabel17;
    private javax.swing.JLabel jLabel18;
    private javax.swing.JLabel jLabel19;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel20;
    private javax.swing.JLabel jLabel21;
    private javax.swing.JLabel jLabel22;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
    private javax.swing.JTextField jTextField5;
    private javax.swing.JTextField jTextField6;
    // End of variables declaration
}
BACK-END: ORACLE 11G
SOL> set echo on
SQL> drop table emp payroll;
Table dropped.
SQL> rem procedure to calculate net pay
SQL> CREATE TABLE emp payroll(
```

```
2 eid number(3) constraint eid pk PRIMARY KEY,
 3 ename varchar2(20) constraint ename nn NOT NULL,
 4 dob date,
 5 sex varchar2(5),
 6 designation varchar2(20),
 7 basic float(6) ,
 8 da float(6),
 9 hra float(6),
10 pf float(6),
11 mc float(6),
12 gross float(6),
13 tot deduc float(6),
14 net pay float(6)
15);
Table created.
SQL> desc emp_payroll
Name
                                     Null? Type
EID
                                      NOT NULL NUMBER (3)
                                      NOT NULL VARCHAR2 (20)
ENAME
DOB
                                               DATE
SEX
                                              VARCHAR2 (5)
DESIGNATION
                                              VARCHAR2 (20)
                                              FLOAT (6)
BASIC
DA
                                               FLOAT (6)
HRA
                                               FLOAT(6)
PF
                                               FLOAT(6)
MC
                                               FLOAT(6)
GROSS
                                               FLOAT(6)
TOT DEDUC
                                               FLOAT (6)
NET PAY
                                               FLOAT (6)
SQL> REM PL/SQL for calculating payroll
SQL> set serveroutput on;
SQL>
SQL> CREATE OR REPLACE PROCEDURE netpay calc(
 2 eid IN emp payroll.eid%type,
  3 basic IN emp payroll.basic%type,
  4 da OUT emp payroll.da%type,
  5 hra OUT emp_payroll.hra%type,
  6 mc OUT emp payroll.mc%type,
 7 pf OUT emp payroll.pf%type,
    gross OUT emp_payroll.gross%type,
 9 tot deduc OUT emp payroll.tot deduc%type,
 10 net pay OUT emp payroll.net pay%type)
11
12 IS
13 BEGIN
14 da:=0.6*basic;
15 hra:=0.11*basic;
16 mc:=0.03*basic;
17 pf:=0.04*basic;
```

- 18 gross:=basic+da+hra;
- 19 tot deduc:=pf+mc;
- 20 net pay:=gross-tot deduc;
- 21 end;
- 22 /

Procedure created.

SQL> select * from emp payroll;

no rows selected

SQL> rem after insertion in application
SQL> select * from emp payroll;

EID	ENAME	DOB	SEX DE	SIGNATION	BASIC
DA	HRA	PF MC	GROS	S TOT_DEDUC	NET_PAY
101 36000	VAISHALI 6600	13-DEC-99 2400 1800	F TE	ACHER 4200	60000
102 45000	RAJA 8300	26-FEB-65 3000 2300	M Sr 13000	.Manager	75000 120000

SQL> rem after updating record 101-desn, net in application SQL> SELECT * FROM EMP_PAYROLL ;

EID	ENAME	DOE	DB SEX DESIGNATION		BASIC		
DA	HRA	PF	MC		GROSS	TOT_DEDUC	NET_PAY
101	VAISHALI	13-	-DEC-99	F	PROF	ESSOR	80000
48000	8800	3200	2400		140000	5600	130000
102	RAJA	26-	-FEB-65	M	Sr.M	anager	75000
45000	8300	3000	2300		130000	5300	120000

SQL> rem delete record 102 in application
SQL> SELECT * FROM EMP_PAYROLL WHERE EID=102;

no rows selected

SQL> INSERT INTO EMP_PAYROLL (EID, ENAME, DOB, SEX, DESIGNATION, BASIC) VALUES (103, 'SANTHI', '25-Jul-1980', 'F', 'ASSISTANT', 300000);

1 row created.

SQL> SELECT * FROM EMP_PAYROLL;

EID	ENAME	DOE	3	SEX	DESI	GNAT	ION	BASIC	
DA	HRA	PF	MC	GI	ROSS	TOT	DEDUC	NET	PAY

------ ----- ----- ----- ------ ------

101 VAISHALI 13-DEC-99 F PROFESSOR 80000 48000 8800 3200 2400 140000 5600 130000 103 SANTHI 25-JUL-80 F ASSISTANT 300000

SQL> INSERT INTO EMP_PAYROLL VALUES(104, 'REKHA', '25-Jul-1970', 'F', 'DIRECTOR', 300000, 18000, 3300, 1200, 900, 51300, 2100, 49200);

1 row created.

SQL> SELECT * FROM EMP PAYROLL;

EID	ENAME	DOB		SEX	DESIGNATION			BASIC	
DA	HRA	PF	MC		GROSS	TOT_	DEDUC	NET_P	 AY
101 48000	VAISHALI 8800	13- 3200	-DEC-99 2400		PROF1	ESSOF	5600	80000	00
104	REKHA	25-	-JUL-70	F	DIRE	CTOR		300000	
18000	3300	1200	900		51000		2100	490	00
103	SANTHI	25-	-JUL-80	F	ASSI	STANI		300000	

SQL> UPDATE EMP PAYROLL SET DOB='30-Sep-1999' WHERE EID=101;

1 row updated.

SQL> SELECT * FROM EMP_PAYROLL;

EID	ENAME	DOB		SEX	X DESIGNATION			BASIC	
DA	HRA	PF	MC		GROSS	TOT_I	EDUC	NET_	_PAY
101	VAISHALI	30-	-SEP-99	F	PROF	ESSOR		80000	
48000	8800	3200	2400		140000		5600	130	0000
104	REKHA	25-	-JUL-70	F	DIRE	CTOR		300000	
18000	3300	1200	900		51000		2100	49	9000
103	SANTHI	25-	-JUL-80	F	ASSI	STANT		300000	

SQL> delete from emp payroll where eid=104;

1 row deleted.

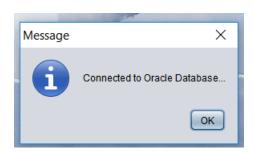
SQL> select * from emp_payroll where eid=104;

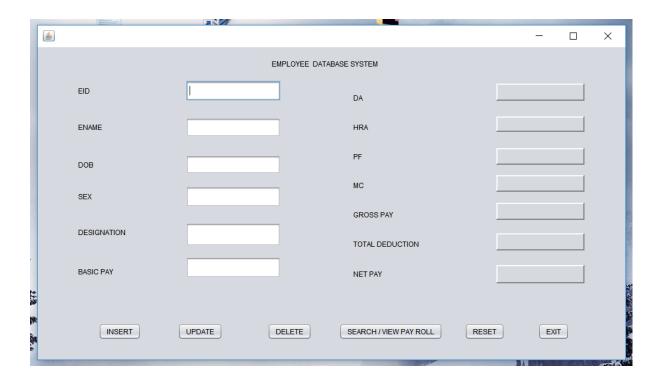
no rows selected

SQL> SPOOL OFF;

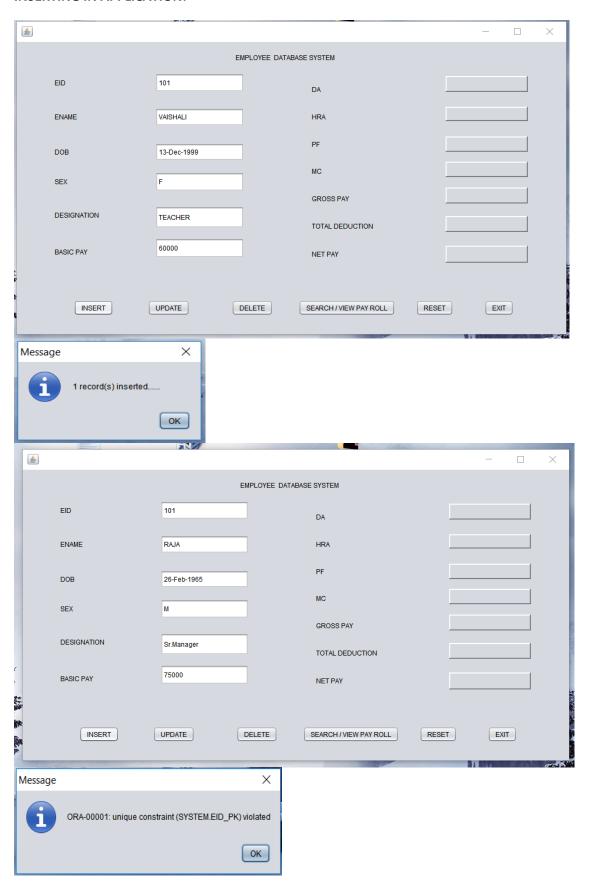
OUTPUT:







INSERTING IN APPLICATION:







SEARCH/VIEW PAYROLL:

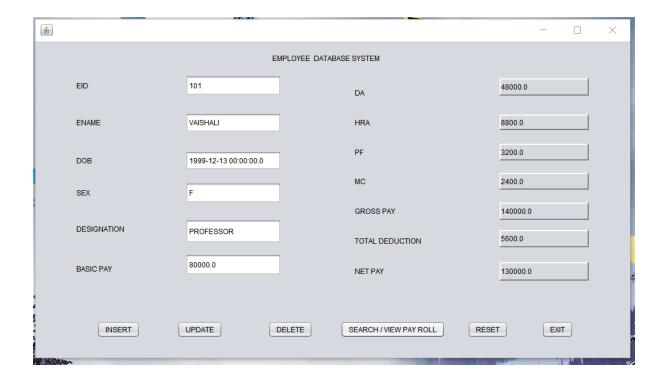




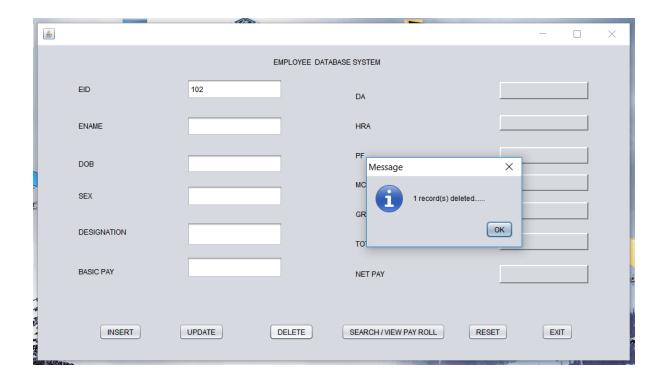


UPDATING IN APPLICATION:





DELETING IN APPLICATION:

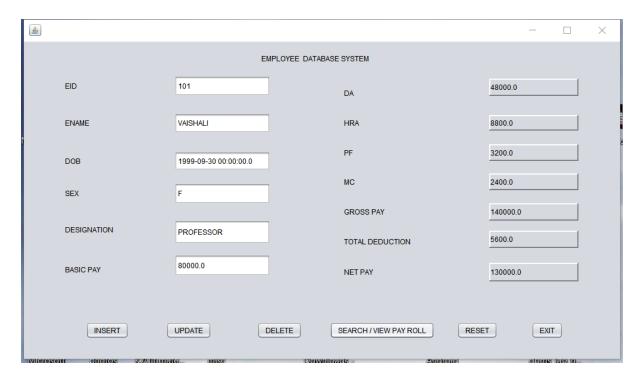


INSERTING IN DATABASE:





UPDATE IN DATABASE:



DELETING IN DATABASE:

