package insert;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JOptionPane;

public class Student extends javax.swing.JFrame {

public Connection conn =null;

public Connection getConn(){

try {

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

} catch (ClassNotFoundException classNotFoundException) {

JOptionPane.showMessageDialog(null, classNotFoundException);

}

try {

String url ="jdbc:postgresql://localhost:5432/prak01";

String user ="postgres";

String password ="izzat095";

conn = DriverManager.getConnection(url, user, password);

JOptionPane.showMessageDialog(null, "Connected");

} catch (SQLException ex) {

Logger.getLogger(Student.class.getName()).log(Level.SEVERE, null, ex);

}

return conn;

}

public Student() {

initComponents();

getConn();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

bindingGroup = new org.jdesktop.beansbinding.BindingGroup();

prak01PUEntityManager = java.beans.Beans.isDesignTime() ? null : javax.persistence.Persistence.createEntityManagerFactory("prak01PU").createEntityManager();

student\_1Query = java.beans.Beans.isDesignTime() ? null : prak01PUEntityManager.createQuery("SELECT s FROM Student\_1 s");

student\_1List = java.beans.Beans.isDesignTime() ? java.util.Collections.emptyList() : student\_1Query.getResultList();

Insert = new javax.swing.JButton();

namestudent = new javax.swing.JTextField();

Nomatric = new javax.swing.JTextField();

sem = new javax.swing.JTextField();

sesion = new javax.swing.JTextField();

orga = new javax.swing.JTextField();

deletebtn = new javax.swing.JButton();

Updatebtn = new javax.swing.JButton();

SEMESTER = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

SEMESTER1 = new javax.swing.JLabel();

ORGANIZATION = new javax.swing.JLabel();

jScrollPane1 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

Insert.setText("ADD");

Insert.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

InsertActionPerformed(evt);

}

});

deletebtn.setText("DELETE");

deletebtn.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

deletebtnActionPerformed(evt);

}

});

Updatebtn.setText("UPDATE");

Updatebtn.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

UpdatebtnActionPerformed(evt);

}

});

SEMESTER.setText("SEMESTER");

jLabel2.setText("NOMATRIC");

jLabel3.setText("STUDENT NAME");

SEMESTER1.setText("SESION");

ORGANIZATION.setText("ORGANIZATION");

org.jdesktop.swingbinding.JTableBinding jTableBinding = org.jdesktop.swingbinding.SwingBindings.createJTableBinding(org.jdesktop.beansbinding.AutoBinding.UpdateStrategy.READ\_WRITE, student\_1List, jTable1);

org.jdesktop.swingbinding.JTableBinding.ColumnBinding columnBinding = jTableBinding.addColumnBinding(org.jdesktop.beansbinding.ELProperty.create("${matricno}"));

columnBinding.setColumnName("Matricno");

columnBinding.setColumnClass(Integer.class);

columnBinding = jTableBinding.addColumnBinding(org.jdesktop.beansbinding.ELProperty.create("${studentname}"));

columnBinding.setColumnName("Studentname");

columnBinding.setColumnClass(String.class);

columnBinding = jTableBinding.addColumnBinding(org.jdesktop.beansbinding.ELProperty.create("${organization}"));

columnBinding.setColumnName("Organization");

columnBinding.setColumnClass(String.class);

columnBinding = jTableBinding.addColumnBinding(org.jdesktop.beansbinding.ELProperty.create("${sesion}"));

columnBinding.setColumnName("Sesion");

columnBinding.setColumnClass(String.class);

columnBinding = jTableBinding.addColumnBinding(org.jdesktop.beansbinding.ELProperty.create("${semester}"));

columnBinding.setColumnName("Semester");

columnBinding.setColumnClass(String.class);

bindingGroup.addBinding(jTableBinding);

jTableBinding.bind();

jScrollPane1.setViewportView(jTable1);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

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

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

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

.addComponent(namestudent, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 195, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 151, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(layout.createSequentialGroup()

.addGap(135, 135, 135)

.addComponent(ORGANIZATION, javax.swing.GroupLayout.PREFERRED\_SIZE, 151, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(120, 120, 120)

.addComponent(orga, javax.swing.GroupLayout.PREFERRED\_SIZE, 192, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(129, 129, 129))

.addGroup(layout.createSequentialGroup()

.addGap(47, 47, 47)

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

.addGroup(layout.createSequentialGroup()

.addComponent(Insert, javax.swing.GroupLayout.PREFERRED\_SIZE, 201, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(deletebtn, javax.swing.GroupLayout.PREFERRED\_SIZE, 197, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(31, 31, 31)

.addComponent(Updatebtn, javax.swing.GroupLayout.PREFERRED\_SIZE, 202, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(23, 23, 23))

.addGroup(layout.createSequentialGroup()

.addComponent(Nomatric, javax.swing.GroupLayout.PREFERRED\_SIZE, 195, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

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

.addGroup(layout.createSequentialGroup()

.addGap(8, 8, 8)

.addComponent(SEMESTER, javax.swing.GroupLayout.PREFERRED\_SIZE, 151, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(SEMESTER1, javax.swing.GroupLayout.PREFERRED\_SIZE, 151, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(sem, javax.swing.GroupLayout.PREFERRED\_SIZE, 195, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(sesion))))

.addGroup(layout.createSequentialGroup()

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 666, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 16, Short.MAX\_VALUE)))))

.addGap(27, 27, 27))

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

.addGroup(layout.createSequentialGroup()

.addGap(57, 57, 57)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 151, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(548, Short.MAX\_VALUE)))

);

layout.setVerticalGroup(

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

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addContainerGap()

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

.addComponent(SEMESTER, javax.swing.GroupLayout.PREFERRED\_SIZE, 28, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(SEMESTER1, javax.swing.GroupLayout.PREFERRED\_SIZE, 28, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

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

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addGap(3, 3, 3)

.addComponent(sesion, javax.swing.GroupLayout.PREFERRED\_SIZE, 52, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addComponent(Nomatric, javax.swing.GroupLayout.PREFERRED\_SIZE, 55, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(sem, javax.swing.GroupLayout.PREFERRED\_SIZE, 49, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(21, 21, 21)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 28, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(ORGANIZATION, javax.swing.GroupLayout.PREFERRED\_SIZE, 28, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

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

.addComponent(namestudent, javax.swing.GroupLayout.PREFERRED\_SIZE, 54, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(orga, javax.swing.GroupLayout.PREFERRED\_SIZE, 54, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(41, 41, 41)

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

.addComponent(Updatebtn, javax.swing.GroupLayout.PREFERRED\_SIZE, 58, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(deletebtn, javax.swing.GroupLayout.PREFERRED\_SIZE, 58, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Insert, javax.swing.GroupLayout.PREFERRED\_SIZE, 59, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(43, 43, 43)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 132, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

.addGroup(layout.createSequentialGroup()

.addGap(10, 10, 10)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 28, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(469, Short.MAX\_VALUE)))

);

bindingGroup.bind();

pack();

}// </editor-fold>

private void InsertActionPerformed(java.awt.event.ActionEvent evt) {

try {

String sqlQuery = "INSERT INTO student (matricno, \"studentname\", \"semester\", \"sesion\", \"organization\") VALUES (?, ?, ?, ?, ?);";

PreparedStatement pst = conn.prepareStatement(sqlQuery);

pst.setInt(1, Integer.valueOf(Nomatric.getText()));

pst.setString(2, namestudent.getText());

pst.setString(3, sem.getText());

pst.setString(4, sesion.getText());

pst.setString(5, orga.getText());

pst.executeUpdate();

JOptionPane.showMessageDialog(null, "Inserted");

} catch (SQLException sQLException) {

JOptionPane.showMessageDialog(null,sQLException);

}

}

private void deletebtnActionPerformed(java.awt.event.ActionEvent evt) {

try {

String sqlDelete = "DELETE FROM student WHERE matricno = ?";

PreparedStatement pst = conn.prepareStatement(sqlDelete);

pst.setInt(1, Integer.valueOf(Nomatric.getText()));

pst.executeUpdate();

JOptionPane.showMessageDialog(null, "Deleted");

} catch (SQLException sQLException) {

}

}

private void UpdatebtnActionPerformed(java.awt.event.ActionEvent evt) {

try {

String updateQuery = "UPDATE student SET studentname=?, semester=?, sesion=?, organization=? WHERE matricno= ?";

PreparedStatement pst = conn.prepareStatement(updateQuery);

pst.setString(1, namestudent.getText());

pst.setString(2, sem.getText());

pst.setString(3, sesion.getText());

pst.setString(4, orga.getText());

pst.setInt(5, Integer.valueOf(Nomatric.getText()));

pst.executeUpdate();

JOptionPane.showMessageDialog(null, "Updated");

} catch (SQLException ex) {

}

}

/\*\*

\* @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(Student.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Student.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Student.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Student.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 Student().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton Insert;

private javax.swing.JTextField Nomatric;

private javax.swing.JLabel ORGANIZATION;

private javax.swing.JLabel SEMESTER;

private javax.swing.JLabel SEMESTER1;

private javax.swing.JButton Updatebtn;

private javax.swing.JButton deletebtn;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTable jTable1;

private javax.swing.JTextField namestudent;

private javax.swing.JTextField orga;

private javax.persistence.EntityManager prak01PUEntityManager;

private javax.swing.JTextField sem;

private javax.swing.JTextField sesion;

private java.util.List<insert.Student\_1> student\_1List;

private javax.persistence.Query student\_1Query;

private org.jdesktop.beansbinding.BindingGroup bindingGroup;

// End of variables declaration

}