МИНИСТЕРСТВО ОБРАЗОВАНИЯ РЕСПУБЛИКИ БЕЛАРУСЬ

УЧРЕЖДЕНИЕ ОБРАЗОВАНИЯ

«БРЕСТСКИЙ ГОСУДАРСТВЕННЫЙ ТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ»

ФАКУЛЬТЕТ ЭЛЕКТРОННО-ИНФОРМАЦИОННЫХ СИСТЕМ

Кафедра интеллектуальных информационных технологий

Отчет по лабораторной работе №4

Специальность ПО-5

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**Вариант 10**

**Цель работы:** приобрести практические навыки разработки многооконных приложений на JavaFX для работы с базами данных.

**Задание:**

На основе БД, разработанной в лабораторной работе No9, реализовать многооконное приложение-

клиент, позволяющее выполнять основные операции над таблицей в БД (добавление, удаление, модификацию данных).

Основные требования к приложению:

• Для отображения выбирать таблицу с внешними ключами;

• Осуществлять вывод основных данных в табличном представлении;

• При выводе краткого представления записи в таблице (т.е. если выводятся не все поля), по щелчку мышкой на запись осуществлять вывод всех полей в подготовленные компоненты на форме;

• Для всех полей, представленных внешними ключами, выводить их текстовое представление

из связанных таблиц (например, таблица-справочник «Времена года» содержит два поля –

идентификатор и название сезона, в связанной таблице «Месяц года» есть внешний ключ на таблицу «Времена года»; в этом случае при выводе таблицы «Месяц года» нужно выводить название сезона, а не его идентификатор);

• При выводе предусмотреть упорядочивание по столбцу;

• Реализовать простейший фильтр данных по одному-двум полям;

• При добавлении новых данных в таблицу использовать дополнительное окно для ввода;

• При модификации данных можно использовать ту же форму, что и для добавления, но с вне-

сенными актуальными значениями полей;

• При добавлении/модификации выводить варианты значений полей с внешним ключом с помощью выпадающего списка;

• При удалении данных осуществлять удаление записи, на которой в данных момент находится фокус.

**10) База данных «Учет успеваемости»**

**Код программы:**

**CheckInfo.java**

package laba4;  
  
import java.sql.\*;  
import java.util.Arrays;  
import java.util.Vector;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.swing.JOptionPane;  
import javax.swing.table.DefaultTableModel;  
  
public class CheckInfo extends javax.swing.JFrame {  
  
 public CheckInfo() {  
 initComponents();  
 Connect();  
 Load();  
 }  
   
 Connection conn;  
 Statement s;  
 PreparedStatement pst;  
 ResultSet rs;  
 DefaultTableModel d;  
   
 public void Connect()  
 {  
 try   
 {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 conn = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/studcheck","root","root");   
 } catch (ClassNotFoundException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }   
 }  
   
 public void Load()  
 {  
 try   
 {  
 pst = conn.prepareStatement("select \* from checkinfo");  
 rs = pst.executeQuery();  
   
 ResultSetMetaData rsd = rs.getMetaData();  
 int c = rsd.getColumnCount();  
 d = (DefaultTableModel)jTable1.getModel();  
 d.setRowCount(0);  
   
 while(rs.next())  
 {  
 Vector v = new Vector();  
 for(int i = 0; i <= c; i++)  
 {  
 v.add(rs.getString("id\_ch"));  
 v.add(rs.getString("name"));  
 v.add(rs.getString("kod"));  
 v.add(rs.getString("mark"));  
 v.add(rs.getString("spes"));  
 v.add(rs.getString("grupa"));  
 v.add(rs.getString("data"));  
 v.add(rs.getString("fname"));  
 v.add(rs.getString("lname"));  
 }  
 d.addRow(v);  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }  
   
 @SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 jLabel1 = new javax.swing.JLabel();  
 jButton1 = new javax.swing.JButton();  
 jButton3 = new javax.swing.JButton();  
 jScrollPane1 = new javax.swing.JScrollPane();  
 jTable1 = new javax.swing.JTable();  
 jButton2 = new javax.swing.JButton();  
 jButton5 = new javax.swing.JButton();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.*EXIT\_ON\_CLOSE*);  
 setBackground(new java.awt.Color(0, 0, 0));  
  
 jLabel1.setFont(new java.awt.Font("Tahoma", 1, 34)); // NOI18N  
 jLabel1.setText("Инфо об учёте успеваемости");  
  
 jButton1.setBackground(new java.awt.Color(255, 153, 153));  
 jButton1.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
 jButton1.setText("Добавить");  
 jButton1.setToolTipText("");  
 jButton1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton1ActionPerformed(evt);  
 }  
 });  
  
 jButton3.setBackground(new java.awt.Color(255, 153, 153));  
 jButton3.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
 jButton3.setText("Удалить");  
 jButton3.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton3ActionPerformed(evt);  
 }  
 });  
  
 jTable1.setModel(new javax.swing.table.DefaultTableModel(  
 new Object [][] {  
  
 },  
 new String [] {  
 "ID", "Название предм", "Код предм", "Оценка", "Специальность", "Группа", "Дата сдачи", "Имя студ", "Фам студ"  
 }  
 ));  
 jTable1.addMouseListener(new java.awt.event.MouseAdapter() {  
 public void mouseClicked(java.awt.event.MouseEvent evt) {  
 jTable1MouseClicked(evt);  
 }  
 });  
 jScrollPane1.setViewportView(jTable1);  
  
 jButton2.setBackground(new java.awt.Color(255, 153, 153));  
 jButton2.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
 jButton2.setText("Очистить");  
 jButton2.setToolTipText("");  
 jButton2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton2ActionPerformed(evt);  
 }  
 });  
  
 jButton5.setBackground(new java.awt.Color(255, 255, 255));  
 jButton5.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
 jButton5.setText("Назад");  
 jButton5.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton5ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGap(58, 58, 58)  
 .addComponent(jLabel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 529, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*RELATED*)  
 .addComponent(jButton1)  
 .addGap(18, 18, 18)  
 .addComponent(jButton2)  
 .addGap(18, 18, 18)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 89, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(18, 18, 18)  
 .addComponent(jButton5, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 95, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGroup(layout.createSequentialGroup()  
 .addGap(34, 34, 34)  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 1008, javax.swing.GroupLayout.*PREFERRED\_SIZE*)))  
 .addContainerGap(54, Short.*MAX\_VALUE*))  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(jButton5, javax.swing.GroupLayout.Alignment.*TRAILING*, 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.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addComponent(jLabel1))  
 .addGap(0, 0, Short.*MAX\_VALUE*)))  
 .addGap(18, 18, 18)  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 415, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addContainerGap(30, Short.*MAX\_VALUE*))  
 );  
  
 pack();  
 setLocationRelativeTo(null);  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed  
 // Добавить  
 try   
 {  
 String sql = "select count(\*) from predmet";  
 s = conn.createStatement();  
 ResultSet ress = s.executeQuery(sql);  
 int count = 0;  
 while(ress.next()){  
 count = ress.getInt(1);  
 }  
   
 String sql\_sel2 = "select mark, data from vedomost";  
 s = conn.createStatement();  
 ResultSet res2 = s.executeQuery(sql\_sel2);  
 double coun = 0;  
 String data;  
 double[] c = new double[count];  
 String[] dat = new String[count];  
 int j = 0;  
 while (res2.next()){  
 coun = res2.getInt("mark");  
 c[j] = coun;  
 data = res2.getString("data");  
 dat[j] = data;  
 j++;  
 }  
   
 System.*out*.println("mark: " + Arrays.*toString*(c));  
 System.*out*.println("data: " + Arrays.*toString*(dat));  
   
   
 String sql\_sel3 = "select fname, lname from student";  
 s = conn.createStatement();  
 ResultSet res3 = s.executeQuery(sql\_sel3);  
 String startmar;  
 String endmar;  
 String[] sm = new String[count];  
 String[] em = new String[count];  
 int l = 0;  
 while (res3.next()){  
 startmar = res3.getString("fname");  
 sm[l] = startmar;  
 endmar = res3.getString("lname");  
 em[l] = endmar;  
 l++;  
 }  
   
 System.*out*.println("fname: " + Arrays.*toString*(sm));  
 System.*out*.println("lname: " + Arrays.*toString*(em));  
   
   
 String sql\_sel4 = "select spes, grupa from grandsp";  
 s = conn.createStatement();  
 ResultSet res4 = s.executeQuery(sql\_sel4);  
 String spes;  
 String grupa;  
 String[] st = new String[count];  
 String[] et = new String[count];  
 int q = 0;  
 while (res4.next()){  
 spes = res4.getString("spes");  
 st[q] = spes;  
 grupa = res4.getString("grupa");  
 et[q] = grupa;  
 q++;  
 }  
   
 System.*out*.println("spes: " + Arrays.*toString*(st));  
 System.*out*.println("grupa: " + Arrays.*toString*(et));  
   
 String sql\_sel5 = "select name, kod from predmet";  
 s = conn.createStatement();  
 ResultSet res5 = s.executeQuery(sql\_sel5);  
 String name;  
 int number;  
 String[] n = new String[count];  
 int[] num = new int[count];  
 int w = 0;  
 while (res5.next()){  
 name = res5.getString("name");  
 n[w] = name;  
 number = res5.getInt("kod");  
 num[w] = number;  
 w++;  
 }  
   
 System.*out*.println("name: " + Arrays.*toString*(n));  
 System.*out*.println("kod: " + Arrays.*toString*(num));  
   
 int k = 0;  
   
 for(int p = 0; p < count; p++){  
 pst = conn.prepareStatement("insert into checkinfo(name, kod, mark, spes, grupa, data, fname, lname) values(?,?,?,?,?,?,?,?)");  
 pst.setString(1, n[p]);  
 pst.setInt(2, num[p]);  
 pst.setDouble(3, c[p]);  
 pst.setString(4, st[p]);  
 pst.setString(5, et[p]);  
 pst.setString(6, dat[p]);  
 pst.setString(7, sm[p]);  
 pst.setString(8, em[p]);  
 k = pst.executeUpdate();  
 }  
   
 if(k > 0)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно добавлены");  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось добавить данные");  
 }   
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }   
 }//GEN-LAST:event\_jButton1ActionPerformed  
  
 private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton3ActionPerformed  
 // Удалить  
 try   
 {  
 d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
   
 pst = conn.prepareStatement("delete from checkinfo where id\_ch=?");  
 pst.setString(1, id);  
   
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно удалены");  
 jButton1.setEnabled(true);  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось удалить данные");  
 }   
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton3ActionPerformed  
  
 private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-FIRST:event\_jTable1MouseClicked  
 // Удаление по клику на мышку  
 d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
 }//GEN-LAST:event\_jTable1MouseClicked  
  
 private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton2ActionPerformed  
 // Очистить  
 try   
 {  
 d.setRowCount(0);  
 pst = conn.prepareStatement("delete from checkinfo");  
 int k = pst.executeUpdate();  
 JOptionPane.*showMessageDialog*(this, "Данные успешно удалены");  
 }catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
   
 }//GEN-LAST:event\_jButton2ActionPerformed  
  
 private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton5ActionPerformed  
 // Назад  
 this.setVisible(false);  
 }//GEN-LAST:event\_jButton5ActionPerformed  
  
 public static void main(String args[]) {  
 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*(CheckInfo.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.*getLogger*(CheckInfo.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.*getLogger*(CheckInfo.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.*getLogger*(CheckInfo.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 }  
  
 java.awt.EventQueue.*invokeLater*(new Runnable() {  
 public void run() {  
 new CheckInfo().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton jButton1;  
 private javax.swing.JButton jButton2;  
 private javax.swing.JButton jButton3;  
 private javax.swing.JButton jButton5;  
 private javax.swing.JLabel jLabel1;  
 private javax.swing.JScrollPane jScrollPane1;  
 private javax.swing.JTable jTable1;  
 // End of variables declaration//GEN-END:variables  
}

**GrAndSp.java**

package laba4;  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.ResultSetMetaData;  
import java.sql.SQLException;  
import java.util.Vector;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.swing.JOptionPane;  
import javax.swing.table.DefaultTableModel;  
  
  
public class GrAndSp extends javax.swing.JFrame {  
  
 public GrAndSp() {  
 initComponents();  
 Connect();  
 Load();  
 }  
  
 Connection conn;  
 PreparedStatement pst;  
 ResultSet rs;  
   
 public void Connect()  
 {  
 try   
 {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 conn = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/studcheck","root","root");   
 } catch (ClassNotFoundException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }   
 }  
   
 public void Load()  
 {  
 try   
 {  
 pst = conn.prepareStatement("select \* from grandsp");  
 rs = pst.executeQuery();  
   
 ResultSetMetaData rsd = rs.getMetaData();  
 int c = rsd.getColumnCount();  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 d.setRowCount(0);  
   
 while(rs.next())  
 {  
 Vector v = new Vector();  
 for(int i = 0; i <= c; i++)  
 {  
 v.add(rs.getString("id\_g"));  
 v.add(rs.getString("spes"));  
 v.add(rs.getString("grupa"));  
 }  
 d.addRow(v);  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }  
   
 @SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 jButton2 = new javax.swing.JButton();  
 jButton1 = new javax.swing.JButton();  
 jButton3 = new javax.swing.JButton();  
 jButton4 = new javax.swing.JButton();  
 jLabel1 = new javax.swing.JLabel();  
 jScrollPane1 = new javax.swing.JScrollPane();  
 jTable1 = new javax.swing.JTable();  
 jPanel1 = new javax.swing.JPanel();  
 jLabel2 = new javax.swing.JLabel();  
 jLabel3 = new javax.swing.JLabel();  
 txtspes = new javax.swing.JTextField();  
 txtgrupa = new javax.swing.JTextField();  
 jButton5 = new javax.swing.JButton();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.*EXIT\_ON\_CLOSE*);  
  
 jButton2.setBackground(new java.awt.Color(0, 204, 204));  
 jButton2.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton2.setText("Изменить");  
 jButton2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton2ActionPerformed(evt);  
 }  
 });  
  
 jButton1.setBackground(new java.awt.Color(0, 204, 204));  
 jButton1.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton1.setText("Добавить");  
 jButton1.setToolTipText("");  
 jButton1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton1ActionPerformed(evt);  
 }  
 });  
  
 jButton3.setBackground(new java.awt.Color(0, 204, 204));  
 jButton3.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton3.setText("Удалить");  
 jButton3.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton3ActionPerformed(evt);  
 }  
 });  
  
 jButton4.setBackground(new java.awt.Color(0, 204, 204));  
 jButton4.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton4.setText("Очистить");  
 jButton4.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton4ActionPerformed(evt);  
 }  
 });  
  
 jLabel1.setFont(new java.awt.Font("Tahoma", 1, 32)); // NOI18N  
 jLabel1.setText("Группы и специальности");  
  
 jTable1.setModel(new javax.swing.table.DefaultTableModel(  
 new Object [][] {  
  
 },  
 new String [] {  
 "ID", "Специальность", "Группа"  
 }  
 ));  
 jTable1.addMouseListener(new java.awt.event.MouseAdapter() {  
 public void mouseClicked(java.awt.event.MouseEvent evt) {  
 jTable1MouseClicked(evt);  
 }  
 });  
 jScrollPane1.setViewportView(jTable1);  
  
 jPanel1.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.*RAISED*));  
  
 jLabel2.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N  
 jLabel2.setText("Группа");  
  
 jLabel3.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N  
 jLabel3.setText("Специальность");  
  
 javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  
 jPanel1.setLayout(jPanel1Layout);  
 jPanel1Layout.setHorizontalGroup(  
 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(jPanel1Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(jLabel3)  
 .addComponent(jLabel2))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*RELATED*, 30, Short.*MAX\_VALUE*)  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(txtgrupa, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 181, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtspes, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 181, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(28, 28, 28))  
 );  
 jPanel1Layout.setVerticalGroup(  
 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(jPanel1Layout.createSequentialGroup()  
 .addGap(46, 46, 46)  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jLabel3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtspes, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(26, 26, 26)  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jLabel2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtgrupa, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addContainerGap(58, Short.*MAX\_VALUE*))  
 );  
  
 jButton5.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
 jButton5.setText("Назад");  
 jButton5.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton5ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGap(18, 18, 18)  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(jPanel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGroup(layout.createSequentialGroup()  
 .addGap(10, 10, 10)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 95, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton2)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 89, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 89, javax.swing.GroupLayout.*PREFERRED\_SIZE*)))  
 .addGap(24, 24, 24))  
 .addGroup(javax.swing.GroupLayout.Alignment.*TRAILING*, layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(jLabel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 432, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(18, 18, 18)))  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 515, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addContainerGap(33, Short.*MAX\_VALUE*))  
 .addGroup(javax.swing.GroupLayout.Alignment.*TRAILING*, layout.createSequentialGroup()  
 .addContainerGap(javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addComponent(jButton5, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 118, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(57, 57, 57))  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGap(22, 22, 22)  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*TRAILING*)  
 .addGroup(layout.createSequentialGroup()  
 .addComponent(jLabel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 44, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(36, 36, 36)  
 .addComponent(jPanel1, 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.*BASELINE*)  
 .addComponent(jButton2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(5, 5, 5))  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 374, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton5, javax.swing.GroupLayout.*DEFAULT\_SIZE*, 42, Short.*MAX\_VALUE*)  
 .addContainerGap())  
 );  
  
 pack();  
 setLocationRelativeTo(null);  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton2ActionPerformed  
 // Изменить  
 try  
 {  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String tstart = txtspes.getText();  
 String tend = txtgrupa.getText();  
 String id = d.getValueAt(selectIndex, 0).toString();  
  
 pst = conn.prepareStatement("update grandsp set spes=?,grupa=? where id\_g=?");  
 pst.setString(1, tstart);  
 pst.setString(2, tend);  
 pst.setString(3, id);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно изменены");  
 txtspes.setText("");  
 txtgrupa.setText("");  
 txtspes.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось изменить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton2ActionPerformed  
  
 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed  
 // Добавить  
 try  
 {  
 String tstart = txtspes.getText();  
 String tend = txtgrupa.getText();  
  
 pst = conn.prepareStatement("insert into grandsp(spes, grupa) values(?,?)");  
 pst.setString(1, tstart);  
 pst.setString(2, tend);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно добавлены");  
 txtspes.setText("");  
 txtgrupa.setText("");  
 txtspes.requestFocus();  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось добавить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton1ActionPerformed  
  
 private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton3ActionPerformed  
 // Удалить  
 try  
 {  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
  
 pst = conn.prepareStatement("delete from grandsp where id\_g=?");  
 pst.setString(1, id);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно удалены");  
 txtspes.setText("");  
 txtgrupa.setText("");  
 txtspes.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось удалить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton3ActionPerformed  
  
 private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton4ActionPerformed  
 // Очистить  
 txtspes.setText("");  
 txtgrupa.setText("");  
 txtspes.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }//GEN-LAST:event\_jButton4ActionPerformed  
  
 private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-FIRST:event\_jTable1MouseClicked  
 // Удаление по клику на мышку  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
 txtspes.setText(d.getValueAt(selectIndex, 1).toString());  
 txtgrupa.setText(d.getValueAt(selectIndex, 2).toString());  
 jButton1.setEnabled(false);  
 }//GEN-LAST:event\_jTable1MouseClicked  
  
 private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton5ActionPerformed  
 // Назад  
 this.setVisible(false);  
 }//GEN-LAST:event\_jButton5ActionPerformed  
  
 */\*\*  
 \** ***@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*(GrAndSp.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.*getLogger*(GrAndSp.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.*getLogger*(GrAndSp.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.*getLogger*(GrAndSp.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 }  
 //</editor-fold>  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.*invokeLater*(new Runnable() {  
 public void run() {  
 new GrAndSp().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton jButton1;  
 private javax.swing.JButton jButton2;  
 private javax.swing.JButton jButton3;  
 private javax.swing.JButton jButton4;  
 private javax.swing.JButton jButton5;  
 private javax.swing.JLabel jLabel1;  
 private javax.swing.JLabel jLabel2;  
 private javax.swing.JLabel jLabel3;  
 private javax.swing.JPanel jPanel1;  
 private javax.swing.JScrollPane jScrollPane1;  
 private javax.swing.JTable jTable1;  
 private javax.swing.JTextField txtgrupa;  
 private javax.swing.JTextField txtspes;  
 // End of variables declaration//GEN-END:variables  
}

**Indexes.java**

package laba4;  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.ResultSetMetaData;  
import java.sql.SQLException;  
import java.sql.Statement;  
import java.util.Arrays;  
import java.util.Vector;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.swing.JOptionPane;  
import javax.swing.table.DefaultTableModel;  
  
  
public class Indexes extends javax.swing.JFrame {  
  
 public Indexes() {  
 initComponents();  
 Connect();  
 Load();  
 }  
  
 Connection conn;  
 Statement s;  
 PreparedStatement pst;  
 ResultSet rs;  
 DefaultTableModel d;  
   
 public void Connect()  
 {  
 try   
 {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 conn = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/studcheck","root","root");   
 } catch (ClassNotFoundException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }   
 }  
   
 public void Load()  
 {  
 try   
 {  
 pst = conn.prepareStatement("select \* from indexes");  
 rs = pst.executeQuery();  
   
 ResultSetMetaData rsd = rs.getMetaData();  
 int c = rsd.getColumnCount();  
 d = (DefaultTableModel)jTable1.getModel();  
 d.setRowCount(0);  
   
 while(rs.next())  
 {  
 Vector v = new Vector();  
 for(int i = 0; i <= c; i++)  
 {  
 v.add(rs.getString("id"));  
 v.add(rs.getString("vedom\_id"));  
 v.add(rs.getString("stud\_id"));  
 v.add(rs.getString("grsp\_id"));  
 v.add(rs.getString("predmet\_id"));  
 }  
 d.addRow(v);  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }  
  
 @SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 jButton1 = new javax.swing.JButton();  
 jButton3 = new javax.swing.JButton();  
 jLabel1 = new javax.swing.JLabel();  
 jScrollPane1 = new javax.swing.JScrollPane();  
 jTable1 = new javax.swing.JTable();  
 jButton2 = new javax.swing.JButton();  
 jButton4 = new javax.swing.JButton();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.*EXIT\_ON\_CLOSE*);  
  
 jButton1.setBackground(new java.awt.Color(255, 0, 204));  
 jButton1.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton1.setText("Добавить");  
 jButton1.setToolTipText("");  
 jButton1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton1ActionPerformed(evt);  
 }  
 });  
  
 jButton3.setBackground(new java.awt.Color(255, 0, 204));  
 jButton3.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton3.setText("Удалить");  
 jButton3.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton3ActionPerformed(evt);  
 }  
 });  
  
 jLabel1.setFont(new java.awt.Font("Tahoma", 1, 30)); // NOI18N  
 jLabel1.setText("Индексы ");  
  
 jTable1.setModel(new javax.swing.table.DefaultTableModel(  
 new Object [][] {  
  
 },  
 new String [] {  
 "ID", "vedom\_id", "stud\_id", "grsp\_id", "predmet\_id"  
 }  
 ));  
 jTable1.addMouseListener(new java.awt.event.MouseAdapter() {  
 public void mouseClicked(java.awt.event.MouseEvent evt) {  
 jTable1MouseClicked(evt);  
 }  
 });  
 jScrollPane1.setViewportView(jTable1);  
  
 jButton2.setBackground(new java.awt.Color(255, 0, 204));  
 jButton2.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
 jButton2.setText("Очистить");  
 jButton2.setToolTipText("");  
 jButton2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton2ActionPerformed(evt);  
 }  
 });  
  
 jButton4.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
 jButton4.setText("Назад");  
 jButton4.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton4ActionPerformed(evt);  
 }  
 });  
  
 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()  
 .addContainerGap(31, Short.*MAX\_VALUE*)  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(javax.swing.GroupLayout.Alignment.*TRAILING*, layout.createSequentialGroup()  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 650, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(43, 43, 43))  
 .addGroup(javax.swing.GroupLayout.Alignment.*TRAILING*, layout.createSequentialGroup()  
 .addComponent(jButton4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 118, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(70, 70, 70))))  
 .addGroup(layout.createSequentialGroup()  
 .addGap(57, 57, 57)  
 .addComponent(jLabel1)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*RELATED*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 95, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(29, 29, 29)  
 .addComponent(jButton2)  
 .addGap(30, 30, 30)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 89, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(57, 57, 57))  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGap(24, 24, 24)  
 .addComponent(jLabel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 35, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGroup(javax.swing.GroupLayout.Alignment.*TRAILING*, layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 42, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 42, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 43, javax.swing.GroupLayout.*PREFERRED\_SIZE*))))  
 .addGap(18, 18, 18)  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 264, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton4, javax.swing.GroupLayout.*DEFAULT\_SIZE*, 41, Short.*MAX\_VALUE*)  
 .addContainerGap())  
 );  
  
 pack();  
 setLocationRelativeTo(null);  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed  
 // Добавить  
 try  
 {  
 String sql = "select count(\*) from predmet";  
 s = conn.createStatement();  
 ResultSet ress = s.executeQuery(sql);  
 int count = 0;  
 while(ress.next()){  
 count = ress.getInt(1);  
 }  
   
 String sql\_sel = "select id\_s from student";  
 s = conn.createStatement();  
 ResultSet res = s.executeQuery(sql\_sel);  
 int prod = 0;  
 int[] r = new int[count];  
 int i = 0;  
 while (res.next()){  
 prod = res.getInt(1);  
 r[i] = prod;  
 i++;  
 }  
   
 String sql\_sel2 = "select id\_v from vedomost";  
 s = conn.createStatement();  
 ResultSet res2 = s.executeQuery(sql\_sel2);  
 int data = 0;  
 int[] d = new int[count];  
 int j = 0;  
 while (res2.next()){  
 data = res2.getInt(1);  
 d[j] = data;  
 j++;  
 }  
   
 String sql\_sel3 = "select id\_g from grandsp";  
 s = conn.createStatement();  
 ResultSet res3 = s.executeQuery(sql\_sel3);  
 int work = 0;  
 int[] w = new int[count];  
 int l = 0;  
 while (res3.next()){  
 work = res3.getInt(1);  
 w[l] = work;  
 l++;  
 }  
   
 String sql\_sel4 = "select id\_p from predmet";  
 s = conn.createStatement();  
 ResultSet res4 = s.executeQuery(sql\_sel4);  
 int tovar = 0;  
 int[] t = new int[count];  
 int e = 0;  
 while (res4.next()){  
 tovar = res4.getInt(1);  
 t[e] = tovar;  
 e++;  
 }  
   
 int k = 0;  
   
 for(int p = 0; p < count; p++){  
 pst = conn.prepareStatement("insert into indexes(vedom\_id, stud\_id, grsp\_id, predmet\_id) values(?,?,?,?)");  
 pst.setInt(1, d[p]);  
 pst.setInt(2, r[p]);  
 pst.setInt(3, w[p]);  
 pst.setInt(4, t[p]);  
 k = pst.executeUpdate();   
 }  
   
 if(k > 0)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно добавлены");  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось добавить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton1ActionPerformed  
  
 private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton3ActionPerformed  
 // Удалить  
 try  
 {  
 d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
  
 pst = conn.prepareStatement("delete from indexes where id=?");  
 pst.setString(1, id);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно удалены");  
 jButton1.setEnabled(true);  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось удалить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton3ActionPerformed  
  
 private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-FIRST:event\_jTable1MouseClicked  
 // Удаление по клику на мышку  
 d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
 }//GEN-LAST:event\_jTable1MouseClicked  
  
 private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton2ActionPerformed  
 // Очистить  
 try  
 {  
 d.setRowCount(0);  
 pst = conn.prepareStatement("delete from indexes");  
 int k = pst.executeUpdate();  
 JOptionPane.*showMessageDialog*(this, "Данные успешно удалены");  
 }catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
  
 }//GEN-LAST:event\_jButton2ActionPerformed  
  
 private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton4ActionPerformed  
 // Назад  
 this.setVisible(false);  
 }//GEN-LAST:event\_jButton4ActionPerformed  
  
 */\*\*  
 \** ***@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*(Indexes.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.*getLogger*(Indexes.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.*getLogger*(Indexes.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.*getLogger*(Indexes.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 Indexes().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton jButton1;  
 private javax.swing.JButton jButton2;  
 private javax.swing.JButton jButton3;  
 private javax.swing.JButton jButton4;  
 private javax.swing.JLabel jLabel1;  
 private javax.swing.JScrollPane jScrollPane1;  
 private javax.swing.JTable jTable1;  
 // End of variables declaration//GEN-END:variables  
}

**Menu.java**

package laba4;  
  
public class Menu extends javax.swing.JFrame {  
  
 public Menu() {  
 initComponents();  
 }  
  
 @SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 jPanel1 = new javax.swing.JPanel();  
 jLabel1 = new javax.swing.JLabel();  
 jButton1 = new javax.swing.JButton();  
 jButton2 = new javax.swing.JButton();  
 jButton3 = new javax.swing.JButton();  
 jButton4 = new javax.swing.JButton();  
 jButton5 = new javax.swing.JButton();  
 jButton6 = new javax.swing.JButton();  
 jButton7 = new javax.swing.JButton();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.*EXIT\_ON\_CLOSE*);  
 setBackground(new java.awt.Color(255, 255, 255));  
  
 jPanel1.setBackground(new java.awt.Color(153, 255, 153));  
 jPanel1.setBorder(javax.swing.BorderFactory.*createBevelBorder*(javax.swing.border.BevelBorder.*RAISED*));  
  
 jLabel1.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N  
 jLabel1.setText("Учет успеваемости");  
  
 javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  
 jPanel1.setLayout(jPanel1Layout);  
 jPanel1Layout.setHorizontalGroup(  
 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(jPanel1Layout.createSequentialGroup()  
 .addGap(21, 21, 21)  
 .addComponent(jLabel1)  
 .addContainerGap(24, Short.*MAX\_VALUE*))  
 );  
 jPanel1Layout.setVerticalGroup(  
 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(jPanel1Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(jLabel1)  
 .addContainerGap(19, Short.*MAX\_VALUE*))  
 );  
  
 jButton1.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N  
 jButton1.setText("Предметы");  
 jButton1.setBorder(null);  
 jButton1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton1ActionPerformed(evt);  
 }  
 });  
  
 jButton2.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N  
 jButton2.setText("Студенты");  
 jButton2.setBorder(null);  
 jButton2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton2ActionPerformed(evt);  
 }  
 });  
  
 jButton3.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N  
 jButton3.setText("Ведомости");  
 jButton3.setBorder(null);  
 jButton3.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton3ActionPerformed(evt);  
 }  
 });  
  
 jButton4.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N  
 jButton4.setText("Группы и спец.");  
 jButton4.setBorder(null);  
 jButton4.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton4ActionPerformed(evt);  
 }  
 });  
  
 jButton5.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N  
 jButton5.setText("Индексы");  
 jButton5.setBorder(null);  
 jButton5.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton5ActionPerformed(evt);  
 }  
 });  
  
 jButton6.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N  
 jButton6.setText("Список");  
 jButton6.setBorder(null);  
 jButton6.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton6ActionPerformed(evt);  
 }  
 });  
  
 jButton7.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N  
 jButton7.setText("Выход");  
 jButton7.setBorder(null);  
 jButton7.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton7ActionPerformed(evt);  
 }  
 });  
  
 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()  
 .addContainerGap(javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*, false)  
 .addComponent(jButton7, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addComponent(jButton6, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addComponent(jButton5, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addComponent(jButton4, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addComponent(jButton2, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 300, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(110, 110, 110))  
 .addComponent(jPanel1, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addComponent(jPanel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(18, 18, Short.*MAX\_VALUE*)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 65, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(18, 18, 18)  
 .addComponent(jButton2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 65, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(27, 27, 27)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 65, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(18, 18, 18)  
 .addComponent(jButton4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 65, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(18, 18, 18)  
 .addComponent(jButton5, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 65, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(18, 18, 18)  
 .addComponent(jButton6, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 65, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(18, 18, 18)  
 .addComponent(jButton7, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 65, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(32, 32, 32))  
 );  
  
 pack();  
 setLocationRelativeTo(null);  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed  
 // Предметы  
 Predmet tn = new Predmet();  
 tn.setVisible(true);  
 }//GEN-LAST:event\_jButton1ActionPerformed  
  
 private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton2ActionPerformed  
 // Студенты  
 Student r = new Student();  
 r.setVisible(true);  
 }//GEN-LAST:event\_jButton2ActionPerformed  
  
 private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton3ActionPerformed  
 // Ведомости  
 Vedomost id = new Vedomost();  
 id.setVisible(true);  
 }//GEN-LAST:event\_jButton3ActionPerformed  
  
 private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton4ActionPerformed  
 // Группы и специальности  
 GrAndSp wt = new GrAndSp();  
 wt.setVisible(true);  
 }//GEN-LAST:event\_jButton4ActionPerformed  
  
 private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton5ActionPerformed  
 // Индексы  
 Indexes i = new Indexes();  
 i.setVisible(true);  
 }//GEN-LAST:event\_jButton5ActionPerformed  
  
 private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton6ActionPerformed  
 // Список  
 CheckInfo t = new CheckInfo();  
 t.setVisible(true);  
 }//GEN-LAST:event\_jButton6ActionPerformed  
  
 private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton7ActionPerformed  
 // Выход  
 System.*exit*(0);  
 }//GEN-LAST:event\_jButton7ActionPerformed  
  
  
 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*(Menu.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.*getLogger*(Menu.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.*getLogger*(Menu.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.*getLogger*(Menu.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 Menu().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton jButton1;  
 private javax.swing.JButton jButton2;  
 private javax.swing.JButton jButton3;  
 private javax.swing.JButton jButton4;  
 private javax.swing.JButton jButton5;  
 private javax.swing.JButton jButton6;  
 private javax.swing.JButton jButton7;  
 private javax.swing.JLabel jLabel1;  
 private javax.swing.JPanel jPanel1;  
 // End of variables declaration//GEN-END:variables  
}

**Predmet.java**

package laba4;  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.ResultSetMetaData;  
import java.sql.SQLException;  
import java.util.Vector;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.swing.JOptionPane;  
import javax.swing.table.DefaultTableModel;  
  
public class Predmet extends javax.swing.JFrame {  
  
 public Predmet() {  
 initComponents();  
 Connect();  
 Load();  
 }  
   
 Connection conn;  
 PreparedStatement pst;  
 ResultSet rs;  
   
 public void Connect()  
 {  
 try   
 {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 conn = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/studcheck","root","root");   
 } catch (ClassNotFoundException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }   
 }  
   
 public void Load()  
 {  
 try   
 {  
 pst = conn.prepareStatement("select \* from predmet");  
 rs = pst.executeQuery();  
   
 ResultSetMetaData rsd = rs.getMetaData();  
 int c = rsd.getColumnCount();  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 d.setRowCount(0);  
   
 while(rs.next())  
 {  
 Vector v = new Vector();  
 for(int i = 0; i <= c; i++)  
 {  
 v.add(rs.getString("id\_p"));  
 v.add(rs.getString("name"));  
 v.add(rs.getString("kod"));  
 }  
 d.addRow(v);  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }  
   
   
 @SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 jButton1 = new javax.swing.JButton();  
 jButton3 = new javax.swing.JButton();  
 jButton4 = new javax.swing.JButton();  
 jLabel1 = new javax.swing.JLabel();  
 jScrollPane1 = new javax.swing.JScrollPane();  
 jTable1 = new javax.swing.JTable();  
 jButton2 = new javax.swing.JButton();  
 jPanel4 = new javax.swing.JPanel();  
 jLabel8 = new javax.swing.JLabel();  
 jLabel9 = new javax.swing.JLabel();  
 txtname3 = new javax.swing.JTextField();  
 txtnumber3 = new javax.swing.JTextField();  
 jButton5 = new javax.swing.JButton();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.*EXIT\_ON\_CLOSE*);  
  
 jButton1.setBackground(new java.awt.Color(204, 204, 255));  
 jButton1.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton1.setText("Добавить");  
 jButton1.setToolTipText("");  
 jButton1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton1ActionPerformed(evt);  
 }  
 });  
  
 jButton3.setBackground(new java.awt.Color(204, 204, 255));  
 jButton3.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton3.setText("Удалить");  
 jButton3.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton3ActionPerformed(evt);  
 }  
 });  
  
 jButton4.setBackground(new java.awt.Color(204, 204, 255));  
 jButton4.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton4.setText("Очистить");  
 jButton4.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton4ActionPerformed(evt);  
 }  
 });  
  
 jLabel1.setFont(new java.awt.Font("Tahoma", 1, 46)); // NOI18N  
 jLabel1.setText("Предметы");  
  
 jTable1.setModel(new javax.swing.table.DefaultTableModel(  
 new Object [][] {  
  
 },  
 new String [] {  
 "ID", "Название", "Код"  
 }  
 ));  
 jTable1.addMouseListener(new java.awt.event.MouseAdapter() {  
 public void mouseClicked(java.awt.event.MouseEvent evt) {  
 jTable1MouseClicked(evt);  
 }  
 });  
 jScrollPane1.setViewportView(jTable1);  
  
 jButton2.setBackground(new java.awt.Color(204, 204, 255));  
 jButton2.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton2.setText("Изменить");  
 jButton2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton2ActionPerformed(evt);  
 }  
 });  
  
 jPanel4.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.*RAISED*));  
  
 jLabel8.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N  
 jLabel8.setText("Код предмета");  
  
 jLabel9.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N  
 jLabel9.setText("Название предмета");  
  
 javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);  
 jPanel4.setLayout(jPanel4Layout);  
 jPanel4Layout.setHorizontalGroup(  
 jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(jPanel4Layout.createSequentialGroup()  
 .addGap(29, 29, 29)  
 .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(jLabel8)  
 .addComponent(jLabel9))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*RELATED*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(txtnumber3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 181, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtname3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 181, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(28, 28, 28))  
 );  
 jPanel4Layout.setVerticalGroup(  
 jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(jPanel4Layout.createSequentialGroup()  
 .addGap(46, 46, 46)  
 .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jLabel9, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtname3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(26, 26, 26)  
 .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jLabel8, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtnumber3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addContainerGap(58, Short.*MAX\_VALUE*))  
 );  
  
 jButton5.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
 jButton5.setText("Назад");  
 jButton5.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton5ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGap(28, 28, 28)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 95, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton2)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 89, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 89, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGroup(layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(jPanel4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGroup(layout.createSequentialGroup()  
 .addGap(87, 87, 87)  
 .addComponent(jLabel1)))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*RELATED*, 21, Short.*MAX\_VALUE*)  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 482, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(30, 30, 30))  
 .addGroup(javax.swing.GroupLayout.Alignment.*TRAILING*, layout.createSequentialGroup()  
 .addGap(0, 0, Short.*MAX\_VALUE*)  
 .addComponent(jButton5, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 118, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(58, 58, 58))  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGap(22, 22, 22)  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*TRAILING*, false)  
 .addGroup(layout.createSequentialGroup()  
 .addComponent(jLabel1)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*RELATED*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addComponent(jPanel4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(28, 28, 28)  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jButton2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)))  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 374, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(18, 18, 18)  
 .addComponent(jButton5, javax.swing.GroupLayout.*DEFAULT\_SIZE*, 42, Short.*MAX\_VALUE*)  
 .addGap(19, 19, 19))  
 );  
  
 pack();  
 setLocationRelativeTo(null);  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed  
 // Добавить  
 try  
 {  
 String tname = txtname3.getText();  
 String tnumber = txtnumber3.getText();  
  
 pst = conn.prepareStatement("insert into predmet(name, kod) values(?,?)");  
 pst.setString(1, tname);  
 pst.setString(2, tnumber);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно добавлены");  
 txtname3.setText("");  
 txtnumber3.setText("");  
 txtname3.requestFocus();  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось добавить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton1ActionPerformed  
  
 private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton3ActionPerformed  
 // Удалить  
 try  
 {  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
  
 pst = conn.prepareStatement("delete from predmet where id\_p=?");  
 pst.setString(1, id);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно удалены");  
 txtname3.setText("");  
 txtnumber3.setText("");  
 txtname3.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось удалить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton3ActionPerformed  
  
 private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton4ActionPerformed  
 // Очистить  
 txtname3.setText("");  
 txtnumber3.setText("");  
 txtname3.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }//GEN-LAST:event\_jButton4ActionPerformed  
  
 private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-FIRST:event\_jTable1MouseClicked  
 // Удаление по клику на мышку  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
 txtname3.setText(d.getValueAt(selectIndex, 1).toString());  
 txtnumber3.setText(d.getValueAt(selectIndex, 2).toString());  
 jButton1.setEnabled(false);  
 }//GEN-LAST:event\_jTable1MouseClicked  
  
 private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton2ActionPerformed  
 // Изменить  
 try  
 {  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String tname = txtname3.getText();  
 String tnumber = txtnumber3.getText();  
 String id = d.getValueAt(selectIndex, 0).toString();  
  
 pst = conn.prepareStatement("update predmet set name=?,kod=? where id\_p=?");  
 pst.setString(1, tname);  
 pst.setString(2, tnumber);  
 pst.setString(3, id);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно изменены");  
 txtname3.setText("");  
 txtnumber3.setText("");  
 txtname3.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось изменить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton2ActionPerformed  
  
 private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton5ActionPerformed  
 // Назад  
 this.setVisible(false);  
 }//GEN-LAST:event\_jButton5ActionPerformed  
  
 */\*\*  
 \** ***@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*(Predmet.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.*getLogger*(Predmet.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.*getLogger*(Predmet.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.*getLogger*(Predmet.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 }  
 //</editor-fold>  
 //</editor-fold>  
 //</editor-fold>  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.*invokeLater*(new Runnable() {  
 public void run() {  
 new Predmet().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton jButton1;  
 private javax.swing.JButton jButton2;  
 private javax.swing.JButton jButton3;  
 private javax.swing.JButton jButton4;  
 private javax.swing.JButton jButton5;  
 private javax.swing.JLabel jLabel1;  
 private javax.swing.JLabel jLabel8;  
 private javax.swing.JLabel jLabel9;  
 private javax.swing.JPanel jPanel4;  
 private javax.swing.JScrollPane jScrollPane1;  
 private javax.swing.JTable jTable1;  
 private javax.swing.JTextField txtname3;  
 private javax.swing.JTextField txtnumber3;  
 // End of variables declaration//GEN-END:variables  
}

**Student.java**

package laba4;  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.ResultSetMetaData;  
import java.sql.SQLException;  
import java.util.Vector;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.swing.JOptionPane;  
import javax.swing.table.DefaultTableModel;  
  
public class Student extends javax.swing.JFrame {  
  
 public Student() {  
 initComponents();  
 Connect();  
 Load();  
 }  
   
 Connection conn;  
 PreparedStatement pst;  
 ResultSet rs;  
   
 public void Connect()  
 {  
 try   
 {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 conn = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/studcheck","root","root");   
 } catch (ClassNotFoundException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }   
 }  
   
 public void Load()  
 {  
 try   
 {  
 pst = conn.prepareStatement("select \* from student");  
 rs = pst.executeQuery();  
   
 ResultSetMetaData rsd = rs.getMetaData();  
 int c = rsd.getColumnCount();  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 d.setRowCount(0);  
   
 while(rs.next())  
 {  
 Vector v = new Vector();  
 for(int i = 0; i <= c; i++)  
 {  
 v.add(rs.getString("id\_s"));  
 v.add(rs.getString("fname"));  
 v.add(rs.getString("lname"));  
 }  
 d.addRow(v);  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }  
  
  
 @SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 jButton2 = new javax.swing.JButton();  
 jButton1 = new javax.swing.JButton();  
 jButton3 = new javax.swing.JButton();  
 jButton4 = new javax.swing.JButton();  
 jLabel1 = new javax.swing.JLabel();  
 jScrollPane1 = new javax.swing.JScrollPane();  
 jTable1 = new javax.swing.JTable();  
 jPanel1 = new javax.swing.JPanel();  
 jLabel2 = new javax.swing.JLabel();  
 jLabel3 = new javax.swing.JLabel();  
 txtstartm = new javax.swing.JTextField();  
 txtendm = new javax.swing.JTextField();  
 jButton5 = new javax.swing.JButton();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.*EXIT\_ON\_CLOSE*);  
 setBackground(new java.awt.Color(255, 255, 255));  
  
 jButton2.setBackground(new java.awt.Color(102, 255, 102));  
 jButton2.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton2.setText("Изменить");  
 jButton2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton2ActionPerformed(evt);  
 }  
 });  
  
 jButton1.setBackground(new java.awt.Color(102, 255, 102));  
 jButton1.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton1.setText("Добавить");  
 jButton1.setToolTipText("");  
 jButton1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton1ActionPerformed(evt);  
 }  
 });  
  
 jButton3.setBackground(new java.awt.Color(102, 255, 102));  
 jButton3.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton3.setText("Удалить");  
 jButton3.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton3ActionPerformed(evt);  
 }  
 });  
  
 jButton4.setBackground(new java.awt.Color(102, 255, 102));  
 jButton4.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton4.setText("Очистить");  
 jButton4.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton4ActionPerformed(evt);  
 }  
 });  
  
 jLabel1.setFont(new java.awt.Font("Tahoma", 1, 46)); // NOI18N  
 jLabel1.setText("Студенты");  
  
 jTable1.setModel(new javax.swing.table.DefaultTableModel(  
 new Object [][] {  
  
 },  
 new String [] {  
 "ID", "Имя студента", "Фамилия студента"  
 }  
 ));  
 jTable1.addMouseListener(new java.awt.event.MouseAdapter() {  
 public void mouseClicked(java.awt.event.MouseEvent evt) {  
 jTable1MouseClicked(evt);  
 }  
 });  
 jScrollPane1.setViewportView(jTable1);  
  
 jPanel1.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.*RAISED*));  
  
 jLabel2.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N  
 jLabel2.setText("Фамилия студента");  
  
 jLabel3.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N  
 jLabel3.setText("Имя студента");  
  
 javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  
 jPanel1.setLayout(jPanel1Layout);  
 jPanel1Layout.setHorizontalGroup(  
 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(jPanel1Layout.createSequentialGroup()  
 .addGap(29, 29, 29)  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(jLabel2)  
 .addComponent(jLabel3))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*RELATED*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(txtendm, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 181, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtstartm, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 181, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(28, 28, 28))  
 );  
 jPanel1Layout.setVerticalGroup(  
 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(jPanel1Layout.createSequentialGroup()  
 .addGap(46, 46, 46)  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jLabel3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtstartm, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(26, 26, 26)  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jLabel2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtendm, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addContainerGap(58, Short.*MAX\_VALUE*))  
 );  
  
 jButton5.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
 jButton5.setText("Назад");  
 jButton5.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton5ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGap(21, 21, 21)  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(jPanel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGroup(layout.createSequentialGroup()  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 95, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton2)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 89, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 89, javax.swing.GroupLayout.*PREFERRED\_SIZE*))))  
 .addGroup(layout.createSequentialGroup()  
 .addGap(101, 101, 101)  
 .addComponent(jLabel1)))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*RELATED*, 39, Short.*MAX\_VALUE*)  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 482, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(37, 37, 37))  
 .addGroup(javax.swing.GroupLayout.Alignment.*TRAILING*, layout.createSequentialGroup()  
 .addGap(0, 0, Short.*MAX\_VALUE*)  
 .addComponent(jButton5, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 118, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(52, 52, 52))  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addContainerGap(34, Short.*MAX\_VALUE*)  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*TRAILING*)  
 .addGroup(layout.createSequentialGroup()  
 .addComponent(jLabel1)  
 .addGap(36, 36, 36)  
 .addComponent(jPanel1, 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.*BASELINE*)  
 .addComponent(jButton2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)))  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 374, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton5, javax.swing.GroupLayout.*DEFAULT\_SIZE*, 42, Short.*MAX\_VALUE*)  
 .addContainerGap())  
 );  
  
 pack();  
 setLocationRelativeTo(null);  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton2ActionPerformed  
 // Изменить  
 try  
 {  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String tstart = txtstartm.getText();  
 String tend = txtendm.getText();  
 String id = d.getValueAt(selectIndex, 0).toString();  
  
 pst = conn.prepareStatement("update student set fname=?,lname=? where id\_s=?");  
 pst.setString(1, tstart);  
 pst.setString(2, tend);  
 pst.setString(3, id);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно изменены");  
 txtstartm.setText("");  
 txtendm.setText("");  
 txtstartm.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось изменить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton2ActionPerformed  
  
 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed  
 // Добавить  
 try  
 {  
 String tstart = txtstartm.getText();  
 String tend = txtendm.getText();  
  
 pst = conn.prepareStatement("insert into student(fname, lname) values(?,?)");  
 pst.setString(1, tstart);  
 pst.setString(2, tend);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно добавлены");  
 txtstartm.setText("");  
 txtendm.setText("");  
 txtstartm.requestFocus();  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось добавить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton1ActionPerformed  
  
 private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton3ActionPerformed  
 // Удалить  
 try  
 {  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
  
 pst = conn.prepareStatement("delete from student where id\_s=?");  
 pst.setString(1, id);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно удалены");  
 txtstartm.setText("");  
 txtendm.setText("");  
 txtstartm.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось удалить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton3ActionPerformed  
  
 private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton4ActionPerformed  
 // Очистить  
 txtstartm.setText("");  
 txtendm.setText("");  
 txtstartm.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }//GEN-LAST:event\_jButton4ActionPerformed  
  
 private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-FIRST:event\_jTable1MouseClicked  
 // Удаление по клику на мышку  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
 txtstartm.setText(d.getValueAt(selectIndex, 1).toString());  
 txtendm.setText(d.getValueAt(selectIndex, 2).toString());  
 jButton1.setEnabled(false);  
 }//GEN-LAST:event\_jTable1MouseClicked  
  
 private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton5ActionPerformed  
 // Назад  
 this.setVisible(false);  
 }//GEN-LAST:event\_jButton5ActionPerformed  
  
 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>  
 //</editor-fold>  
 //</editor-fold>  
 //</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//GEN-BEGIN:variables  
 private javax.swing.JButton jButton1;  
 private javax.swing.JButton jButton2;  
 private javax.swing.JButton jButton3;  
 private javax.swing.JButton jButton4;  
 private javax.swing.JButton jButton5;  
 private javax.swing.JLabel jLabel1;  
 private javax.swing.JLabel jLabel2;  
 private javax.swing.JLabel jLabel3;  
 private javax.swing.JPanel jPanel1;  
 private javax.swing.JScrollPane jScrollPane1;  
 private javax.swing.JTable jTable1;  
 private javax.swing.JTextField txtendm;  
 private javax.swing.JTextField txtstartm;  
 // End of variables declaration//GEN-END:variables  
}

**Vedomost.java**

package laba4;  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.ResultSetMetaData;  
import java.sql.SQLException;  
import java.util.Vector;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.swing.JOptionPane;  
import javax.swing.table.DefaultTableModel;  
  
public class Vedomost extends javax.swing.JFrame {  
  
 public Vedomost() {  
 initComponents();  
 Connect();  
 Load();  
 }  
  
 Connection conn;  
 PreparedStatement pst;  
 ResultSet rs;  
   
 public void Connect()  
 {  
 try   
 {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 conn = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/studcheck","root","root");   
 } catch (ClassNotFoundException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }   
 }  
   
 public void Load()  
 {  
 try   
 {  
 pst = conn.prepareStatement("select \* from vedomost");  
 rs = pst.executeQuery();  
   
 ResultSetMetaData rsd = rs.getMetaData();  
 int c = rsd.getColumnCount();  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 d.setRowCount(0);  
   
 while(rs.next())  
 {  
 Vector v = new Vector();  
 for(int i = 0; i <= c; i++)  
 {  
 v.add(rs.getString("id\_v"));  
 v.add(rs.getString("mark"));  
 v.add(rs.getString("data"));  
 }  
 d.addRow(v);  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }  
  
 @SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 jPanel1 = new javax.swing.JPanel();  
 jLabel2 = new javax.swing.JLabel();  
 jLabel3 = new javax.swing.JLabel();  
 txtdatareg = new javax.swing.JTextField();  
 txtcount = new javax.swing.JTextField();  
 jButton2 = new javax.swing.JButton();  
 jButton1 = new javax.swing.JButton();  
 jButton3 = new javax.swing.JButton();  
 jButton4 = new javax.swing.JButton();  
 jLabel1 = new javax.swing.JLabel();  
 jScrollPane1 = new javax.swing.JScrollPane();  
 jTable1 = new javax.swing.JTable();  
 jButton5 = new javax.swing.JButton();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.*EXIT\_ON\_CLOSE*);  
  
 jPanel1.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.*RAISED*));  
  
 jLabel2.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N  
 jLabel2.setText("Оценка");  
  
 jLabel3.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N  
 jLabel3.setText("Дата сдачи");  
  
 javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  
 jPanel1.setLayout(jPanel1Layout);  
 jPanel1Layout.setHorizontalGroup(  
 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(jPanel1Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(jLabel3)  
 .addComponent(jLabel2))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*RELATED*, 30, Short.*MAX\_VALUE*)  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addComponent(txtcount, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 181, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtdatareg, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 181, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(28, 28, 28))  
 );  
 jPanel1Layout.setVerticalGroup(  
 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(jPanel1Layout.createSequentialGroup()  
 .addGap(46, 46, 46)  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jLabel3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtdatareg, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(26, 26, 26)  
 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*BASELINE*)  
 .addComponent(jLabel2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(txtcount, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 34, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addContainerGap(58, Short.*MAX\_VALUE*))  
 );  
  
 jButton2.setBackground(new java.awt.Color(153, 153, 255));  
 jButton2.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton2.setText("Изменить");  
 jButton2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton2ActionPerformed(evt);  
 }  
 });  
  
 jButton1.setBackground(new java.awt.Color(153, 153, 255));  
 jButton1.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton1.setText("Добавить");  
 jButton1.setToolTipText("");  
 jButton1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton1ActionPerformed(evt);  
 }  
 });  
  
 jButton3.setBackground(new java.awt.Color(153, 153, 255));  
 jButton3.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton3.setText("Удалить");  
 jButton3.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton3ActionPerformed(evt);  
 }  
 });  
  
 jButton4.setBackground(new java.awt.Color(153, 153, 255));  
 jButton4.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
 jButton4.setText("Очистить");  
 jButton4.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton4ActionPerformed(evt);  
 }  
 });  
  
 jLabel1.setFont(new java.awt.Font("Tahoma", 1, 28)); // NOI18N  
 jLabel1.setText("Ведомость об успеваемости");  
  
 jTable1.setModel(new javax.swing.table.DefaultTableModel(  
 new Object [][] {  
  
 },  
 new String [] {  
 "ID", "Оценка", "Дата сдачи"  
 }  
 ));  
 jTable1.addMouseListener(new java.awt.event.MouseAdapter() {  
 public void mouseClicked(java.awt.event.MouseEvent evt) {  
 jTable1MouseClicked(evt);  
 }  
 });  
 jScrollPane1.setViewportView(jTable1);  
  
 jButton5.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
 jButton5.setText("Назад");  
 jButton5.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 jButton5ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(javax.swing.GroupLayout.Alignment.*TRAILING*, layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(jLabel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 432, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(18, 18, 18))  
 .addGroup(layout.createSequentialGroup()  
 .addGap(18, 18, 18)  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 95, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton2)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 89, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.*UNRELATED*)  
 .addComponent(jButton4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 89, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addComponent(jPanel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(50, 50, 50)))  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 515, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addContainerGap(javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*))  
 .addGroup(javax.swing.GroupLayout.Alignment.*TRAILING*, layout.createSequentialGroup()  
 .addContainerGap(javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)  
 .addComponent(jButton5, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 118, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(29, 29, 29))  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*LEADING*)  
 .addGroup(layout.createSequentialGroup()  
 .addGap(22, 22, 22)  
 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.*TRAILING*)  
 .addGroup(layout.createSequentialGroup()  
 .addComponent(jLabel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 35, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addGap(40, 40, 40)  
 .addComponent(jPanel1, 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.*BASELINE*)  
 .addComponent(jButton2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton4, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*)  
 .addComponent(jButton1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 50, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(5, 5, 5))  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 374, javax.swing.GroupLayout.*PREFERRED\_SIZE*))  
 .addGap(18, 18, 18)  
 .addComponent(jButton5, javax.swing.GroupLayout.*DEFAULT\_SIZE*, 41, Short.*MAX\_VALUE*)  
 .addGap(15, 15, 15))  
 );  
  
 pack();  
 setLocationRelativeTo(null);  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton2ActionPerformed  
 // Изменить  
 try  
 {  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String reg = txtdatareg.getText();  
 String count = txtcount.getText();  
 String id = d.getValueAt(selectIndex, 0).toString();  
  
 pst = conn.prepareStatement("update vedomost set mark=?,data=? where id\_v=?");  
 pst.setString(1, count);  
 pst.setString(2, reg);  
 pst.setString(3, id);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно изменены");  
 txtdatareg.setText("");  
 txtcount.setText("");  
 txtdatareg.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось изменить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton2ActionPerformed  
  
 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed  
 // Добавить  
 try  
 {  
 String reg = txtdatareg.getText();  
 String count = txtcount.getText();  
  
 pst = conn.prepareStatement("insert into vedomost(mark, data) values(?,?)");  
 pst.setString(1, count);  
 pst.setString(2, reg);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно добавлены");  
 txtdatareg.setText("");  
 txtcount.setText("");  
 txtdatareg.requestFocus();  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось добавить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton1ActionPerformed  
  
 private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton3ActionPerformed  
 // Удалить  
 try  
 {  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
  
 pst = conn.prepareStatement("delete from vedomost where id\_v=?");  
 pst.setString(1, id);  
  
 int k = pst.executeUpdate();  
 if(k == 1)  
 {  
 JOptionPane.*showMessageDialog*(this, "Данные успешно удалены");  
 txtdatareg.setText("");  
 txtcount.setText("");  
 txtdatareg.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }  
 else  
 {  
 JOptionPane.*showMessageDialog*(this, "Ошибка, не удалось удалить данные");  
 }  
 } catch (SQLException ex) {  
 Logger.*getLogger*(CheckInfo.class.getName()).log(Level.*SEVERE*, null, ex);  
 }  
 }//GEN-LAST:event\_jButton3ActionPerformed  
  
 private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton4ActionPerformed  
 // Очистить  
 txtdatareg.setText("");  
 txtcount.setText("");  
 txtdatareg.requestFocus();  
 jButton1.setEnabled(true);  
 Load();  
 }//GEN-LAST:event\_jButton4ActionPerformed  
  
 private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {//GEN-FIRST:event\_jTable1MouseClicked  
 // Удаление по клику на мышку  
 DefaultTableModel d = (DefaultTableModel)jTable1.getModel();  
 int selectIndex = jTable1.getSelectedRow();  
 String id = d.getValueAt(selectIndex, 0).toString();  
 txtcount.setText(d.getValueAt(selectIndex, 1).toString());  
 txtdatareg.setText(d.getValueAt(selectIndex, 2).toString());  
 jButton1.setEnabled(false);  
 }//GEN-LAST:event\_jTable1MouseClicked  
  
 private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton5ActionPerformed  
 // Назад  
 this.setVisible(false);  
 }//GEN-LAST:event\_jButton5ActionPerformed  
  
 */\*\*  
 \** ***@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*(Vedomost.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.*getLogger*(Vedomost.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.*getLogger*(Vedomost.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.*getLogger*(Vedomost.class.getName()).log(java.util.logging.Level.*SEVERE*, null, ex);  
 }  
 //</editor-fold>  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.*invokeLater*(new Runnable() {  
 public void run() {  
 new Vedomost().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton jButton1;  
 private javax.swing.JButton jButton2;  
 private javax.swing.JButton jButton3;  
 private javax.swing.JButton jButton4;  
 private javax.swing.JButton jButton5;  
 private javax.swing.JLabel jLabel1;  
 private javax.swing.JLabel jLabel2;  
 private javax.swing.JLabel jLabel3;  
 private javax.swing.JPanel jPanel1;  
 private javax.swing.JScrollPane jScrollPane1;  
 private javax.swing.JTable jTable1;  
 private javax.swing.JTextField txtcount;  
 private javax.swing.JTextField txtdatareg;  
 // End of variables declaration//GEN-END:variables  
}

**Результат работы программы:**

