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Кафедра ИИТ**

**Лабораторная работа №10
По дисциплине СПП за 6 семестр
Тема: «Java»**

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Лабораторная работа №10

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

Вариант 8.

Задание.

На основе БД, разработанной в лабораторной работе №9, 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 внесенными 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 данный момент находится фокус.

8) База данных «Прокат товаров и услуг»

Код консольной программы:

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:
    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));

jPanell.setBackground(new java.awt.Color(153, 255, 153));

jPanell.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));

jLabell.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabell.setText("Прокат товаров");

javax.swing.GroupLayout jPanellLayout = new javax.swing.GroupLayout(jPanell);
jPanell.setLayout(jPanellLayout);
jPanellLayout.setHorizontalGroup(

jPanellLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanellLayout.createSequentialGroup()
        .addGap(0, 56, Short.MAX_VALUE)
        .addComponent(jLabell, javax.swing.GroupLayout.PREFERRED_SIZE, 466,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );
jPanellLayout.setVerticalGroup(

jPanellLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanellLayout.createSequentialGroup()
        .addComponent(jLabell)
        .addGap(19, Short.MAX_VALUE)
        );

jButton1.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N
jButton1.setText("Товары");
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("Продавцы");
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("Дата регистрации");
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("Время работы");
jButton4.setBorder(null);
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

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    }
});

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()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jButton7, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
            .addComponent(jButton6, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
            .addComponent(jButton5, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
            .addComponent(jButton4, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
            .addComponent(jButton3, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
            .addComponent(jButton2, 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(jPanell1, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        )
        .addContainerGap()
    );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jPanell1, javax.swing.GroupLayout.PREFERRED_SIZE,
Short.MAX_VALUE)
            .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
        // Товары
        Tovar tn = new Tovar();
        tn.setVisible(true);
    } // GEN-LAST:event_jButton1ActionPerformed

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_jButton2ActionPerformed
        // Продавцы
        Prodavec r = new Prodavec();
        r.setVisible(true);
    } // GEN-LAST:event_jButton2ActionPerformed

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_jButton3ActionPerformed
        // Дата регистрации
        IntroDate id = new IntroDate();
        id.setVisible(true);
    } // GEN-LAST:event_jButton3ActionPerformed

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_jButton4ActionPerformed
        // Время работы
        WorkTime wt = new WorkTime();
        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
        ProkatInfo t = new ProkatInfo();

```

```

        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
}

```

Tovar.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 Tovar extends javax.swing.JFrame {

    public Tovar() {
        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/prokattovara","root","root")
;
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SQLException ex) {
            Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
        }
    }

    public void Load()
    {
        try
        {
            pst = conn.prepareStatement("select * from tovar");
            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_t"));
                    v.add(rs.getString("name"));
                    v.add(rs.getString("kod"));
                }
                d.addRow(v);
            }
        }
    }
}
```

```

    }
    } catch (SQLException ex) {
        Logger.getLogger(ProkatInfo.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, 40)); // NOI18N
    jLabel1.setText("Названия товара");

    jTable1.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {

        },
        new String [] {
            "ID", "Название", "Код"
        }
    )

```



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));
jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTable1MouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(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 товара");

jLabel9.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N
jLabel9.setText("Название товара");

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,
18, 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,

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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()
                .addContainerGap()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .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(0, 16, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel4,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(0, 16, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 432,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
482, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(30, 30, 30))
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .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()
                .addContainerGap()
                .addComponent(jButton1,

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        .addGap(22, 22, 22)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
false)
        .addGroup(layout.createSequentialGroup()
            .addGap(14, 14, 14)
            .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 tovar(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(ProkatInfo.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 tovar where id_t=?");
        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(ProkatInfo.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 tovar set name=?,kod=? where

```

```

id_t=?");
    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(ProkatInfo.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(Tovar.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Tovar.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Tovar.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Tovar.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 Tovar().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
}

```

Prodavec.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 Prodavec extends javax.swing.JFrame {

    public Prodavec() {
        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/prokattovara","root","root")
;
    } catch (ClassNotFoundException ex) {
        Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SQLException ex) {
        Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
    }
}

public void Load()
{
    try
    {
        pst = conn.prepareStatement("select * from prodavec");
        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("fnameprod"));
                v.add(rs.getString("lnameprod"));
            }
            d.addRow(v);
        }
    } catch (SQLException ex) {
        Logger.getLogger(ProkatInfo.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, 40)); // NOI18N
    jLabel1.setText("Продавцы товара");

    jTable1.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {

        },
        new String [] {
            "ID", "Имя продавца", "Фамилия продавца"
        }
    ));
    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 продавца");

    jLabel3.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N
    jLabel3.setText("Имя продавца");

    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(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE, 150, true)
                    .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, 150, true)
                )
            )
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE, 30, true)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, 30, true)
            )
    );

```



```

        .addGap(29, 29, 29)

        .addGroup(jPanell1Layout.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(jPanell1Layout.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)
        );
        jPanell1Layout.setVerticalGroup(

jPanell1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanell1Layout.createSequentialGroup()
        .addGap(46, 46, 46)

        .addGroup(jPanell1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        E)
            .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(jPanell1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        E)
            .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()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(21, 21, 21)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanell1,
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)))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addContainerGap(23, Short.MAX_VALUE)
        .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 432, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)))
    .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(44, 44, 44)
                .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 prodavec set fnameprod=?, lnameprod=?
where id_p=?");
        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(ProkatInfo.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 prodavec(fnameprod, lnameprod)
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(ProkatInfo.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 prodavec where id_p=?");
            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(ProkatInfo.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(Prodavec.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Prodavec.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Prodavec.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Prodavec.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
        }
        //</editor-fold>
        //</editor-fold>

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

```

IntroDate.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 IntroDate extends javax.swing.JFrame {

    public IntroDate() {
        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/prokattovara","root","root")
;
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SQLException ex) {
            Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
        }
    }

    public void Load()
    {
        try
        {
            pst = conn.prepareStatement("select * from dataintro");
            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_d"));
                    v.add(rs.getString("count"));
                    v.add(rs.getString("datareg"));
                }
            }
        }
    }
}
```

```

        d.addRow(v);
    }
} catch (SQLException ex) {
    Logger.getLogger(ProkatInfo.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("Стоимость товара");

    jLabel3.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N
    jLabel3.setText("Дата регистрации");

    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(jLabel2)
                    .addComponent(jLabel3)
                    .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)
                    .addComponent(jButton2)
                    .addComponent(jButton1)
                    .addComponent(jButton3)
                    .addComponent(jButton4)
                    .addComponent(jButton5)
                )
            )
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane1)
            )
        );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel3)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(txtcount, javax.swing.GroupLayout.PREFERRED_SIZE,
181, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(txtdatareg, javax.swing.GroupLayout.PREFERRED_SIZE,
181, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton3)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton4)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton5)
            )
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane1)
            )
        );
}

```

```

.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, 30)); // NOI18N
jLabel1.setText("Дата регистрации товара");

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {

    },
    new String [] {
        "ID", "Стоимость товара", "Дата регистрации"
    }
));
jTable1.addMouseListener(new java.awt.event.MouseAdapter() {

```



```

        public void mouseClicked(java.awt.event.MouseEvent evt) {
            jTable1MouseClicked(evt);
        }
    });
    jScrollPane1.setViewportViewView(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()
                .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
432, javax.swing.GroupLayout.PREFERRED_SIZE)
            .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)))
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
515, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .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(18, 18, 18)

.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(27, 27, 27)
                .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 dataintro set count=?,datareg=? where
id_d=?");

        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(ProkatInfo.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 dataintro(count, datareg)
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(ProkatInfo.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 dataintro where id_d=?");
        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(ProkatInfo.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_jButton1MouseClicked
        // 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_jButton1MouseClicked

    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(IntroDate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(IntroDate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(IntroDate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(IntroDate.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 IntroDate().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
}

```

WorkTime.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 WorkTime extends javax.swing.JFrame {

    public WorkTime() {
        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/prokattovara","root","root")
;
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SQLException ex) {
            Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
}

```

```

    }
}

public void Load()
{
    try
    {
        pst = conn.prepareStatement("select * from worktime");
        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_w"));
                v.add(rs.getString("starttime"));
                v.add(rs.getString("endtime"));
            }
            d.addRow(v);
        }
    } catch (SQLException ex) {
        Logger.getLogger(ProkatInfo.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();
    txtstarttime = new javax.swing.JTextField();
    txtendtime = 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, 34)); // NOI18N
    jLabel1.setText("Время работы проката");

    jTable1.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {

        },
        new String [] {
            "ID", "Время начала работы", "Время конца работы"
        }
    ));
    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("Время конца работы");

    jLabel3.setFont(new java.awt.Font("Tahoma", 1, 15)); // NOI18N
    jLabel3.setText("Время начала работы");

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(

    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(
                    .addComponent(jLabel3)
                    .addComponent(jLabel2)
                )
                .addGroup(
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
30, Short.MAX_VALUE)
                )
            )
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

)
        .addComponent(txtendtime, javax.swing.GroupLayout.PREFERRED_SIZE,
181, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtstarttime,
javax.swing.GroupLayout.PREFERRED_SIZE, 181, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(28, 28, 28))
);
jPanell1Layout.setVerticalGroup(

jPanell1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanell1Layout.createSequentialGroup())
        .addGap(46, 46, 46)

.addGroup(jPanell1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
E)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
34, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtstarttime,
javax.swing.GroupLayout.PREFERRED_SIZE, 34, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(26, 26, 26)

.addGroup(jPanell1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
E)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
34, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtendtime, 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()
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(layout.createSequentialGroup()
                            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(layout.createSequentialGroup()
                                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                            .addComponent(jPanell1,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                            .addGroup(layout.createSequentialGroup()
                                                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                                    .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(27, 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 = txtstarttime.getText();
String tend = txtendtime.getText();
String id = d.getValueAt(selectIndex, 0).toString();

pst = conn.prepareStatement("update worktime set starttime=?,endtime=?
where id_w=?");
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");
    txtstarttime.setText("");
    txtendtime.setText("");
    txtstarttime.requestFocus();
    jButton1.setEnabled(true);
    Load();
}
else
{
    JOptionPane.showMessageDialog(this, "Ошибка, не удалось изменить
данные");
}
} catch (SQLException ex) {
    Logger.getLogger(ProkatInfo.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 = txtstarttime.getText();
        String tend = txtendtime.getText();

        pst = conn.prepareStatement("insert into worktime(starttime, endtime)
values(?,?)");
        pst.setString(1, tstart);
        pst.setString(2, tend);

        int k = pst.executeUpdate();
        if(k == 1)
        {
            JOptionPane.showMessageDialog(this, "Данные успешно добавлены");
            txtstarttime.setText("");
            txtendtime.setText("");
            txtstarttime.requestFocus();
            Load();
        }
        else
        {
            JOptionPane.showMessageDialog(this, "Ошибка, не удалось добавить
данные");
        }
    } catch (SQLException ex) {
        Logger.getLogger(ProkatInfo.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 worktime where id_w=?");
    pst.setString(1, id);

    int k = pst.executeUpdate();
    if(k == 1)
    {
        JOptionPane.showMessageDialog(this, "Данные успешно удалены");
        txtstarttime.setText("");
        txtendtime.setText("");
        txtstarttime.requestFocus();
        jButton1.setEnabled(true);
        Load();
    }
    else
    {
        JOptionPane.showMessageDialog(this, "Ошибка, не удалось удалить
данные");
    }
} catch (SQLException ex) {
    Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
}
} //GEN-LAST:event_jButton3ActionPerformed

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_jButton4ActionPerformed
    // ОЧИСТИТЬ
    txtstarttime.setText("");
    txtendtime.setText("");
    txtstarttime.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();
    txtstarttime.setText(d.getValueAt(selectIndex, 1).toString());
    txtendtime.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(WorkTime.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(WorkTime.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(WorkTime.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(WorkTime.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
        }
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new WorkTime().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 txtendtime;
private javax.swing.JTextField txtstarttime;
// 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/prokattovara","root","root")
;
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SQLException ex) {
            Logger.getLogger(ProkatInfo.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("data_id"));
        v.add(rs.getString("prod_id"));
        v.add(rs.getString("work_id"));
        v.add(rs.getString("tovar_id"));
    }
    d.addRow(v);
}
} catch (SQLException ex) {
    Logger.getLogger(ProkatInfo.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", "data_id", "prod_id", "work_id", "tovar_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()
        .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 tovar";
        s = conn.createStatement();
        ResultSet ress = s.executeQuery(sql);
        int count = 0;
        while(ress.next()){
            count = ress.getInt(1);
        }

        String sql_sel = "select id_p from prodavec";
        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_d from dataintro";
        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_w from worktime";
        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_t from tovar";
    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(data_id, prod_id,
work_id, tovar_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(ProkatInfo.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(ProkatInfo.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(ProkatInfo.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
}

```

ProkatInfo.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 ProkatInfo extends javax.swing.JFrame {

    public ProkatInfo() {
        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/prokattovara","root","root")
;

        } catch (ClassNotFoundException ex) {
            Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SQLException ex) {
            Logger.getLogger(ProkatInfo.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
}

```

```

    }
}

public void Load()
{
    try
    {
        pst = conn.prepareStatement("select * from prokatinfo");
        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_pr"));
                v.add(rs.getString("name"));
                v.add(rs.getString("kod"));
                v.add(rs.getString("count"));
                v.add(rs.getString("starttime"));
                v.add(rs.getString("endtime"));
                v.add(rs.getString("datareg"));
                v.add(rs.getString("fnameprod"));
                v.add(rs.getString("lnameprod"));
            }
            d.addRow(v);
        }
    } catch (SQLException ex) {
        Logger.getLogger(ProkatInfo.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, 40)); // NOI18N
    jLabel1.setText("Инфо о прокате товара");

    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", "Код", "Стоимость", "НачалоРаб", "КонецРаб",
        "ДатаРег", "Имя продавца", "Фам продавца"
    }
));
jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTable1MouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(jTable1);

jButton2.setBackground(new java.awt.Color(255, 153, 153));
jButton2.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N
jButton2.setText("Очистить");
jButton2.setToolTipsText("");
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()
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(jButton1)
                .add(jButton2)
                .add(jButton3)
                .add(jTable1)
                .add(jScrollPane1)
                .add(jButton5)
            )
            .addContainerGap())
);

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .add(layout.createSequentialGroup()
            .add(jButton1)
            .add(jButton2)
            .add(jButton3)
            .add(jTable1)
            .add(jScrollPane1)
            .add(jButton5)
            .addContainerGap())
);

```

```

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 tovar";
        s = conn.createStatement();
        ResultSet ress = s.executeQuery(sql);
        int count = 0;
        while(ress.next()){
            count = ress.getInt(1);
        }

        String sql_sel2 = "select count, datareg from dataintro";
        s = conn.createStatement();
        ResultSet res2 = s.executeQuery(sql_sel2);
        double coun = 0;
        String datareg;
        double[] c = new double[count];
        String[] dat = new String[count];
        int j = 0;
        while (res2.next()){
            coun = res2.getInt("count");
            c[j] = coun;
            datareg = res2.getString("datareg");
            dat[j] = datareg;

```

```

        j++;
    }

    System.out.println("count: " + Arrays.toString(c));
    System.out.println("datereg: " + Arrays.toString(dat));

    String sql_sel3 = "select fnameprod, lnameprod from prodavec";
    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("fnameprod");
        sm[l] = startmar;
        endmar = res3.getString("lnameprod");
        em[l] = endmar;
        l++;
    }

    System.out.println("fnameprod: " + Arrays.toString(sm));
    System.out.println("lnameprod: " + Arrays.toString(em));

    String sql_sel4 = "select starttime, endtime from worktime";
    s = conn.createStatement();
    ResultSet res4 = s.executeQuery(sql_sel4);
    String starttime;
    String endtime;
    String[] st = new String[count];
    String[] et = new String[count];
    int q = 0;
    while (res4.next()) {
        starttime = res4.getString("starttime");
        st[q] = starttime;
        endtime = res4.getString("endtime");
        et[q] = endtime;
        q++;
    }

    System.out.println("starttime: " + Arrays.toString(st));
    System.out.println("endtime: " + Arrays.toString(et));

    String sql_sel5 = "select name, kod from tovar";
    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 prokatinfo(name, kod, count,
starttime, endtime, datareg, fnameprod, lnameprod) 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(ProkatInfo.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 prokatinfo where id_pr=?");
        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(ProkatInfo.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 prokatinfo");
                int k = pst.executeUpdate();
                JOptionPane.showMessageDialog(this, "Данные успешно удалены");
            } catch (SQLException ex) {
                Logger.getLogger(ProkatInfo.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(ProkatInfo.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
            } catch (InstantiationException ex) {
                java.util.logging.Logger.getLogger(ProkatInfo.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
            } catch (IllegalAccessException ex) {
                java.util.logging.Logger.getLogger(ProkatInfo.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
            } catch (javax.swing.UnsupportedLookAndFeelException ex) {
                java.util.logging.Logger.getLogger(ProkatInfo.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
            }

            java.awt.EventQueue.invokeLater(new Runnable() {
                public void run() {
                    new ProkatInfo().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
    }

```

Результат тестирования:

Прокат товаров

Товары

Продавцы

Дата регистрации

Время работы

Индексы

Список

Выход

Названия товара

Название товара

Код товара

Добавить

Изменить

Удалить

Очистить

ID	Название	Код
1	Велосипед	1
2	Самокат	2
3	Скутер	3

Назад

Дата регистрации товара

Дата регистрации

Стоимость товара

Добавить

Изменить

Удалить

Очистить

ID	Стоимость товара	Дата регистрации
1	30	04.05.2022
2	40	04.05.2022
3	50	04.05.2022

Назад

Время работы проката

Время начала работы

Время конца работы

Добавить

Изменить

Удалить

Очистить

ID	Время начала работы	Время конца работы
1	10:00	19:00
2	14:00	18:00
3	16:30	20:20

Назад

Индексы

Добавить

Очистить

Удалить

ID	data_id	prod_id	work_id	tovar_id
4	1	1	1	1
5	2	2	2	2
6	3	3	3	3

Назад

Продавцы товара

Имя продавца

Фамилия продавца

Добавить

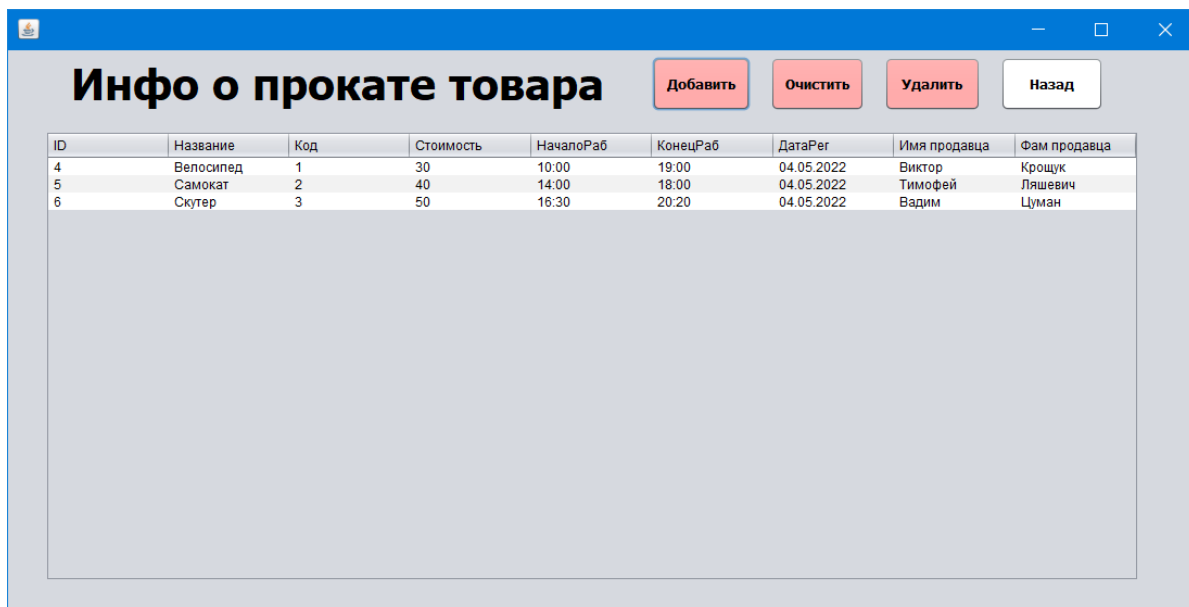
Изменить

Удалить

Очистить

ID	Имя продавца	Фамилия продавца
1	Виктор	Крошук
2	Тимофей	Ляшевич
3	Вадим	Цуман

Назад



←T→	id_d	count	datereg
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	30	04.05.2022
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	40	04.05.2022
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	50	04.05.2022

←T→	id	data_id	prod_id	work_id	tovar_id
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	1	1	1	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	2	2	2	2
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	3	3	3	3

←T→	id_p	fnameprod	lnameprod
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Виктор	Крошук
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Тимофей	Ляшевич
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Вадим	Цуман

←T→	id_t	name	kod
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Велосипед	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Самокат	2
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Скутер	3

←T→	id_w	starttime	endtime
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	10:00	19:00
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	14:00	18:00
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	16:30	20:20

←T→	id_pr	name	kod	count	starttime	endtime	datereg	fnameprod	lnameprod
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Велосипед	1	30	10:00	19:00	04.05.2022	Виктор	Крошук
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Самокат	2	40	14:00	18:00	04.05.2022	Тимофей	Ляшевич
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Скутер	3	50	16:30	20:20	04.05.2022	Вадим	Цуман

Вывод: приобрел практические навыки разработки многооконных приложений на JavaFX для работы с базами данных.