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## UAS PBO

### (PRAKTIK)

#### 1. penjualan

##### a) KoneksiMYSQL.java

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package penjualan;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
/**
 *
 * @author ronyirfannandhy
 */
public class KoneksiMysql {
    String url, usr, pwd, dbn;
    public KoneksiMysql (String dbn) {
        this.url = "jdbc:mysql://localhost/" + dbn;
        this.usr = "root";
        this.pwd = "";
    }
    public KoneksiMysql (String host, String user, String pass,String dbn) {
        this.url = "jdbc:mysql://" + host + "/" + dbn;
        this.usr = user;
        this.pwd = pass;
    }

    public Connection getConnection() {
        Connection con = null;
        try {
            // Class.forName("com.mysql.jdbc.Driver");
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection(this.url, this.usr, this.pwd);
        } catch (ClassNotFoundException e) {
            System.out.println ("Error #1 : " + e.getMessage());
            System.exit(0);
        }
    }
}
```

```

    } catch (SQLException e) {
        System.out.println ("Error #2 : " + e.getMessage());
        System.exit(0);
    }
    return con;
}

public static void main (String args[]) {
    KoneksiMysql kon = new KoneksiMysql ("pbo");
    Connection c = kon.getConnection();
}
}

```

#### b) Penjualan.java

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this
template
 */
package penjualan;

public class Penjualan {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here
    }

}

```

#### c) frmBarang.java

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit
this template
 */
package penjualan;

/**
 *

```

```

* @author irfanwidianoro
*/
import com.mysql.cj.jdbc.result.ResultSetMetaData;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JComboBox;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
public class frmBarang extends javax.swing.JFrame {
    Connection Con;
    ResultSet RsBrg;
    Statement stm;
    Boolean ada = false;
    String sSatuan;
    Boolean edit = false;
    private Object[][] dataTable = null;
    private String[] header = {"Kode", "Nama Barang", "Satuan", "Harga
    beli", "Harga", "Stok", "Stok Min"};
    /**
     * Creates new form frmBarang
     */
    public frmBarang() {
        initComponents();
        open_db();
        baca_data();
        aktif(false);
        setTombol(true);
    }

    private void setField()
    {
        int row = tblBrg.getSelectedRow();
        txtKode.setText((String)tblBrg.getValueAt(row,0));
        txtNama.setText((String)tblBrg.getValueAt(row,1));
        cmbSatuan.setSelectedItem((String)tblBrg.getValueAt(row,2));
        String Harga_beli = Double.toString((Double)tblBrg.getValueAt(row,3));
        txtHarga_beli.setText(Harga_beli);
        String harga = Double.toString((Double)tblBrg.getValueAt(row,4));
        txtHarga.setText(harga);
        String stok=Integer.toString((Integer)tblBrg.getValueAt(row,5));
        txtStok.setText(stok);
        String stokmin=Integer.toString((Integer)tblBrg.getValueAt(row,6));
        txtStokMin.setText(stokmin);
    }
}

```

```

    }

    private void open_db()
    {
        try{
            KoneksiMysql kon = new KoneksiMysql("localhost","root","","pbo");
            Con = kon.getConnection();
            //System.out.println("Berhasil ");
        }catch (Exception e) {
            System.out.println("Error : "+e);
        }
    }

    private void baca_data()
    {
        try{
            stm = Con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
            ResultSet.CONCUR_READ_ONLY);
            //      stm = Con.createStatement();
            RsBrg = stm.executeQuery("select * from barang");
            ResultSetMetaData meta = (ResultSetMetaData) RsBrg.getMetaData();
            int col = meta.getColumnCount();
            int baris = 0;
            while(RsBrg.next()) {
                baris = RsBrg.getRow();
            }

            dataTable = new Object[baris][col];
            int x = 0;
            RsBrg.beforeFirst();

            while(RsBrg.next()) {
                dataTable[x][0] = RsBrg.getString("kd_brg");
                dataTable[x][1] = RsBrg.getString("nm_brg");
                dataTable[x][2] = RsBrg.getString("satuan");
                dataTable[x][3] = RsBrg.getDouble("Harga_beli");
                dataTable[x][4] = RsBrg.getDouble("Harga");
                dataTable[x][5] = RsBrg.getInt("stok");
                dataTable[x][6] = RsBrg.getInt("stok_min");
                x++;
            }

            tblBrg.setModel(new DefaultTableModel(dataTable,header));
            //      DefaultTableModel model = (DefaultTableModel) tblBrg.getModel();
            //      model.setDataVector(dataTable, header);
        }
        catch(SQLException e)
        {

```

```

        JOptionPane.showMessageDialog(null, e);
    }
}

private void kosong()
{
    txtKode.setText("");
    txtNama.setText("");
    cmbSatuan.setSelectedIndex(0);
    txtHarga_beli.setText("");
    txtStok.setText("");
    txtStokMin.setText("");
}

private void aktif(boolean x)
{
    txtKode.setEditable(x);
    txtNama.setEditable(x);
    //cmbSatuan.setEditable(x);
    cmbSatuan.setEnabled(x);
    txtHarga_beli.setEditable(x);
    txtStok.setEditable(x);
    txtStokMin.setEditable(x);
}

private void setTombol(boolean t)
{
    cmdTambah.setEnabled(t);
    cmdKoreksi.setEnabled(t);
    cmdHapus.setEnabled(t);
    cmdSimpan.setEnabled(!t);
    cmdBatal.setEnabled(!t);
    cmdKeluar.setEnabled(t);
}

@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    txtKode = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    txtNama = new javax.swing.JTextField();
    cmbSatuan = new javax.swing.JComboBox<>();
    jLabel5 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();

```

```

jLabel7 = new javax.swing.JLabel();
txtHarga_beli = new javax.swing.JTextField();
txtStokMin = new javax.swing.JTextField();
txtStok = new javax.swing.JTextField();
jScrollPane1 = new javax.swing.JScrollPane();
tblBrg = new javax.swing.JTable();
cmdTambah = new javax.swing.JButton();
cmdSimpan = new javax.swing.JButton();
cmdKoreksi = new javax.swing.JButton();
cmdHapus = new javax.swing.JButton();
cmdBatal = new javax.swing.JButton();
cmdKeluar = new javax.swing.JButton();
jLabel8 = new javax.swing.JLabel();
txtHarga = new javax.swing.JTextField();

setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 18)); // NOI18N
jLabel1.setText("Data Barang");

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

jLabel2.setText("Kode Barang");

jLabel3.setText("Nama Barang");

jLabel4.setText("Satuan");

cmbSatuan.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
    "item", "ekor", "Buah", "pcs" }));
cmbSatuan.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmbSatuanActionPerformed(evt);
    }
});

jLabel5.setText("Harga beli");

jLabel6.setText("Stok");

jLabel7.setText("Stok Minimum");

txtHarga_beli.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {

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```

        txtHarga_beliActionPerformed(evt);
    }
});

txtStokMin.setText("-");

tblBrg.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null}
    },
    new String [] {
        "Kode Barang", "Nama Barang", "Satuan", "Harga beli", "Harga jual", "Stok",
        "Stok Minimum"
    }
));
tblBrg.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tblBrgMouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(tblBrg);

cmdTambah.setText("Tambah");
cmdTambah.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        cmdTambahFocusGained(evt);
    }
});
cmdTambah.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmdTambahActionPerformed(evt);
    }
});

cmdSimpan.setText("Simpan");
cmdSimpan.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        cmdSimpanMouseClicked(evt);
    }
});
cmdSimpan.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmdSimpanActionPerformed(evt);
    }
});

```

```

cmdKoreksi.setText("Koreksi");
cmdKoreksi.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmdKoreksiActionPerformed(evt);
    }
});

cmdHapus.setText("Hapus");
cmdHapus.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmdHapusActionPerformed(evt);
    }
});

cmdBatal.setText("Batal");
cmdBatal.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmdBatalActionPerformed(evt);
    }
});

cmdKeluar.setText("Keluar");
cmdKeluar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmdKeluarActionPerformed(evt);
    }
});

jLabel8.setText("Harga jual");

txtHarga.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtHargaActionPerformed(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(20, 20, 20)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
493, javax.swing.GroupLayout.PREFERRED_SIZE)

```



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        .addGroup(layout.createSequentialGroup())
        .addComponent(cmdTambah)
        .addGap(28, 28, 28)
        .addComponent(cmdSimpan)
        .addGap(18, 18, 18)
        .addComponent(cmdKoreksi)
        .addGap(18, 18, 18)
        .addComponent(cmdHapus)
        .addGap(18, 18, 18)
        .addComponent(cmdBatal)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(cmdKeluar)))
    .addContainerGap(150, Short.MAX_VALUE))
    .addGroup(layout.createSequentialGroup())
        .addGap(30, 30, 30)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel8)

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

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel2)
        .addComponent(jLabel3)
        .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 137,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel4)
        .addComponent(jLabel5))
        .addGap(42, 42, 42)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
false)
        .addComponent(cmbSatuan,
javax.swing.GroupLayout.Alignment.LEADING, 0, 219, Short.MAX_VALUE)
        .addComponent(txtNama,
javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(txtKode,
javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(txtHarga_beli)
        .addComponent(txtHarga,
javax.swing.GroupLayout.Alignment.LEADING)))
        .addGroup(layout.createSequentialGroup())
            .addComponent(jLabel7)

```

```

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 102,
Short.MAX_VALUE)
    .addComponent(txtStokMin,
javax.swing.GroupLayout.PREFERRED_SIZE, 218,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(layout.createSequentialGroup())
    .addComponent(jLabel6)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(txtStok, javax.swing.GroupLayout.PREFERRED_SIZE,
218, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGap(0, 0, Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup())
    .addGap(20, 20, 20)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(layout.createSequentialGroup())
    .addComponent(jLabel1)
    .addGap(18, 18, 18)
    .addComponent(jLabel2)
    .addGap(18, 18, 18)
    .addComponent(jLabel3))
    .addGroup(layout.createSequentialGroup())
    .addComponent(txtKode,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(txtNama,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jLabel4)
    .addComponent(cmbSatuan,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

```

```

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(jLabel5))
    .addComponent(txtHarga_beli, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
10, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)
    .addComponent(jLabel8)
    .addComponent(txtHarga, 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(jLabel6)
    .addComponent(txtStok, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)
    .addComponent(jLabel7)
    .addComponent(txtStokMin, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
236, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)
    .addComponent(cmdTambah)
    .addComponent(cmdSimpan)
    .addComponent(cmdKoreksi)
    .addComponent(cmdHapus)
    .addComponent(cmdBatal)
    .addComponent(cmdKeluar))
    .addGap(124, 124, 124))
);

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

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

```

```

        // TODO add your handling code here:
    }

    private void cmbSatuanActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        JComboBox cSatuan = (javax.swing.JComboBox)evt.getSource();
        //Membaca Item Yang Terpilih — > String
        sSatuan = (String)cSatuan.getSelectedItem();
    }

    private void cmdTambahActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        aktif(true);
        setTombol(false);
        kosong();
    }

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

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

    private void cmdSimpanMouseClicked(java.awt.event.MouseEvent evt) {
        // TODO add your handling code here:
        String tKode=txtKode.getText();
        String tNama=txtNama.getText();
        double hrg=Double.parseDouble(txtHarga_beli.getText());
        int stk=Integer.parseInt(txtStok.getText());
        int stkMin=Integer.parseInt(txtStokMin.getText());

        try{
            if (edit==true)
            {
                stm.executeUpdate("update barang set
nm_brg='"+tNama+"',satuan='"+sSatuan+"', "
                + "harga="+hrg+",stok="+stk+",stok_min="+stkMin+" where kd_brg='" +
tKode + "'"
                );
            }else
            {
                stm.executeUpdate(
                    "INSERT into barang(kd_brg, nm_brg, satuan, harga_beli,harga, stok,
stok_min) "

```

```

+
"VALUES('"+tKode+"','"+tNama+"','"+sSatuan+"','"+hrg+"','"+stk+"','"+stkMin+"')
");
}

tblBrg.setModel(new DefaultTableModel(dataTable,header));
baca_data();
aktif(false);
setTombol(true);
}catch(SQLException e) {
    JOptionPane.showMessageDialog(null, e);
}

}

private void cmdKoreksiActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    edit = true;
    aktif(true);
    setTombol(false);
    txtKode.setEditable(false);
}

private void cmdHapusActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql="delete from barang where kd_brg='"+ txtKode.getText()+"'";
        stm.executeUpdate(sql);
        baca_data();

        edit=false; //set ulang edit agar form tidak masuk ke mode edit
    }
    catch(SQLException e)
    {
        JOptionPane.showMessageDialog(null, e);
    }
}

private void cmdBatalActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    aktif(false);
    setTombol(true);
}

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

```

```

private void tblBrgMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    setField();
}

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

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

/**
 * @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(frmBarang.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
    } catch (InstantiationException ex) {

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

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

```

```

java.util.logging.Logger.getLogger(frmBarang.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 frmBarang().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JComboBox<String> cmbSatuan;
private javax.swing.JButton cmdBatal;
private javax.swing.JButton cmdHapus;
private javax.swing.JButton cmdKeluar;
private javax.swing.JButton cmdKoreksi;
private javax.swing.JButton cmdSimpan;
private javax.swing.JButton cmdTambah;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable tblBrg;
private javax.swing.JTextField txtHarga;
private javax.swing.JTextField txtHarga_beli;
private javax.swing.JTextField txtKode;
private javax.swing.JTextField txtNama;
private javax.swing.JTextField txtStok;
private javax.swing.JTextField txtStokMin;
// End of variables declaration
}

```

d) frmLogin.java

```

/*

```

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\*/

package penjualan;

```
import java.sql.*;
import javax.swing.JOptionPane;
import java.security.MessageDigest;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.Statement;
import java.util.Calendar;
import javax.swing.JOptionPane;
import java.sql.SQLException;
import java.sql.DriverManager;
import java.awt.print.PrinterException;
import java.sql.*;
import java.text.MessageFormat;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;
```

```
public class frmLogin extends javax.swing.JFrame {
```

```
    Connection Con;
```

```
    /**
```

```
     * Creates new form frmLogin
```

```
     */
```

```
    public frmLogin() {
        initComponents();
        open_db();
    }
```

```
    //method enkripsi password md5
```

```
    private String getMD5(String input) {
```

```
        try {
```

```
            MessageDigest md = MessageDigest.getInstance("MD5");
```

```
            byte[] messageDigest = md.digest(input.getBytes());
```

```
            StringBuilder sb = new StringBuilder();
```

```
            for (byte b : messageDigest) {
```

```
                sb.append(String.format("%02x", b));
```

```
            }
```

```
            return sb.toString();
```

```
        } catch (Exception e) {
```

```
            e.printStackTrace();
```

```
            return null;
```

```
        }
```



```

    }

    //method membuka database server, user, pass, database disesuaikan
    private void open_db()
    {
        try{
            KoneksiMysql kon = new KoneksiMysql("localhost","root","","pbo");
            Con = kon.getConnection();
            //System.out.println("Berhasil ");
        }catch (Exception e) {
            System.out.println("Error : "+e);
        }
    }
}
/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    txtUsr = new javax.swing.JTextField();
    pswd = new javax.swing.JPasswordField();
    btnLogin = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
    jLabel1.setText("LOGIN APLIKASI PENJUALAN");

    jLabel2.setText("Username");

    jLabel3.setText("Password");

    txtUsr.setText(" ");

    btnLogin.setText("LOGIN");
    btnLogin.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnLoginActionPerformed(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(113, 113, 113)
                    .addComponent(jLabel1)
                    .addGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(92, 92, 92)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(jLabel3)
            .addComponent(jLabel2))
            .addGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
            .addComponent(txtUsr, javax.swing.GroupLayout.DEFAULT_SIZE, 89,
Short.MAX_VALUE)
            .addComponent(pswd))
            .addGap(95, 95, 95))
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                .addComponent(btnLogin)
                .addGap(158, 158, 158))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(22, 22, 22)
                    .addComponent(jLabel1)
                    .addGap(32, 32, 32)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2)
            .addComponent(txtUsr, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3)
            .addComponent(pswd, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
    
```

```

        .addComponent(jLabel3)
        .addComponent(pswd, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addComponent(btnLogin)
        .addContainerGap(63, Short.MAX_VALUE)
    );

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

private void btnLoginActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String username = txtUsr.getText();
    // String password = String.valueOf(pswd.getPassword());
    String password = getMD5(String.valueOf(pswd.getPassword()));

    try {
        // Query SQL untuk memeriksa username dan password pada tabel pengguna
        String sql = "SELECT * FROM user WHERE username = ? AND password = ?";
        PreparedStatement stmt = Con.prepareStatement(sql);
        stmt.setString(1, username);
        stmt.setString(2, password);
        ResultSet rs = stmt.executeQuery();

        if (rs.next()) {
            // JOptionPane.showMessageDialog(this, "Login Berhasil");
            String role = rs.getString("role");
            frmMenu menu = new frmMenu(role);
            menu.setVisible(true);
            this.dispose();
        } else {
            JOptionPane.showMessageDialog(this, "Username / Password Tidak Cocok!");
        }

        stmt.close();
        rs.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
}

/**
 * @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(frmLogin.class.getName()).log(java.util.logging.Level
        .SEVERE, null, ex);
    } catch (InstantiationException ex) {

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

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

    java.util.logging.Logger.getLogger(frmLogin.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 frmLogin().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton btnLogin;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JPasswordField pswd;

```

frmMenu.java

```

/*
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 */
package penjualan;
import java.sql.Connection;
import java.sql.ResultSet;
import javax.swing.DefaultComboBoxModel;
import javax.swing.JSpinner;
import java.sql.Statement;
import java.util.Calendar;
import javax.swing.JOptionPane;
import java.sql.SQLException;
import java.sql.DriverManager;
import java.awt.print.PrinterException;
import java.sql.*;
import java.text.MessageFormat;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;
/**
 *
import java.util.*;
public class frmMenu extends javax.swing.JFrame {
    private String role;
    /**
     * Creates new form frmMenu
     */
    public frmMenu(String role) {
        initComponents();
        this.role = role;
        setAccessBasedOnRole();
    }

    private void setAccessBasedOnRole() {
        if (role.equals("admin")) {
            // Tampilkan semua menu
            mnMaster.setEnabled(true);

```

```

        mnTransaksi.setEnabled(true);
        mnLaporan.setEnabled(true);
        mnUtility.setEnabled(true);
    } else if (role.equals("user")) {
        // Hanya tampilkan menu transaksi
        mnMaster.setEnabled(false);
        mnTransaksi.setEnabled(true);
        mnLaporan.setEnabled(false);
        mnUtility.setEnabled(false);
    }
}

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

    jMenuBar1 = new javax.swing.JMenuBar();
    mnMaster = new javax.swing.JMenu();
    mnBarang = new javax.swing.JMenuitem();
    mnKonsumen = new javax.swing.JMenuitem();
    jSeparator1 = new javax.swing.JPopupMenu.Separator();
    mnKeluar = new javax.swing.JMenuitem();
    mnTransaksi = new javax.swing.JMenu();
    mnLaporan = new javax.swing.JMenu();
    mnUtility = new javax.swing.JMenu();

    setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);

    mnMaster.setText("Data Master");

    mnBarang.setText("Data Barang");
    mnBarang.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            mnBarangActionPerformed(evt);
        }
    });
    mnMaster.add(mnBarang);

    mnKonsumen.setText("Data Konsumen");
    mnKonsumen.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            mnKonsumenActionPerformed(evt);
        }
    });
}

```

```

mnMaster.add(mnKonsumen);
mnMaster.add(jSeparator1);

mnKeluar.setText("Keluar");
mnMaster.add(mnKeluar);

jMenuBar1.add(mnMaster);

mnTransaksi.setText("Transaksi ");
mnTransaksi.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        mnTransaksiMouseClicked(evt);
    }
});
jMenuBar1.add(mnTransaksi);

mnLaporan.setText("Laporan");
jMenuBar1.add(mnLaporan);

mnUtility.setText("Utility");
jMenuBar1.add(mnUtility);

setJMenuBar(jMenuBar1);

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 400, Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 277, Short.MAX_VALUE)
);

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

private void mnBarangActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new frmBarang().setVisible(true);
}

private void mnKonsumenActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new frmKonsumen().setVisible(true);
}

```

```

private void mnTransaksiMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    new frmTransaksi().setVisible(true);
}

/**
 * @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(frmMenu.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

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

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

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

    /* Create and display the form */
}

```



```

// Variables declaration - do not modify
private javax.swing.JMenuBar jMenuBar1;
private javax.swing.JPopupMenu.Separator jSeparator1;
private javax.swing.JMenuItem mnBarang;
private javax.swing.JMenuItem mnKeluar;
private javax.swing.JMenuItem mnKonsumen;
private javax.swing.JMenu mnLaporan;
private javax.swing.JMenu mnMaster;
private javax.swing.JMenu mnTransaksi;
private javax.swing.JMenu mnUtility;
// End of variables declaration

private static class frmKonsumen {

    public frmKonsumen() {
    }

    private void setVisible(boolean b) {
        throw new UnsupportedOperationException("Not supported yet."); //
Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
    }
}

private static class frmTransaksi {

    public frmTransaksi() {
    }

    private void setVisible(boolean b) {
        throw new UnsupportedOperationException("Not supported yet."); //
Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
    }
}
}

```

f) frmSelectBarang.java

```

/*
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 */

```

```

package penjualan;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.Statement;
import java.util.Calendar;
import javax.swing.JOptionPane;
import java.sql.SQLException;
import java.sql.DriverManager;
import java.awt.print.PrinterException;
import java.sql.*;
import java.text.MessageFormat;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author Windows
 */
public class frmSelectBarang extends javax.swing.JFrame {
    Connection Con;
    ResultSet RsBrg;
    Statement stm;
    public frmTransaksi fAB = null;
    private Object[][] dataTable = null;
    private String[] header = {"Kode", "Nama Barang", "Satuan", "Harga", "Harga
Beli", "Stok", "Stok Min"};

    /**
     * Creates new form frmSelectBarang
     */
    public frmSelectBarang() {
        initComponents();
        baca_data();
    }

    private void open_db()
    {
        try{
            KoneksiMysql kon = new KoneksiMysql("localhost","root","","pbo");
            Con = kon.getConnection();
        }
        catch (Exception e) {
            System.out.println("Error : "+e);
        }
    }

```

```

private void baca_data()
{
    open_db();
    try{
        stm = Con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
        ResultSet.CONCUR_READ_ONLY);
        RsBrg = stm.executeQuery("select * from barang order by kd_brg");

        ResultSetMetaData meta = RsBrg.getMetaData();
        int col = meta.getColumnCount();
        int baris = 0;
        while(RsBrg.next()) {
            baris = RsBrg.getRow();
        }

        dataTable = new Object[baris][col];
        int x = 0;
        RsBrg.beforeFirst();
        while(RsBrg.next()) {
            dataTable[x][0] = RsBrg.getString("kd_brg");
            dataTable[x][1] = RsBrg.getString("nm_brg");
            dataTable[x][2] = RsBrg.getString("satuan");
            dataTable[x][3] = RsBrg.getDouble("harga");
            dataTable[x][4] = RsBrg.getDouble("harga_beli");
            dataTable[x][5] = RsBrg.getInt("stok");
            dataTable[x][6] = RsBrg.getInt("stok_min");
            x++;
        }
        tblBrg.setModel(new DefaultTableModel(dataTable,header));
    }
    catch(SQLException e)
    {
        JOptionPane.showMessageDialog(null, e);
    }
}

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

    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();

```

```

tblBrg = new javax.swing.JTable();
jLabel1 = new javax.swing.JLabel();

jButton1.setText("jButton1");

jButton2.setText("jButton2");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

tblBrg.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null}
    },
    new String [] {
        "kode", "nama barang", "satuan", "harga", "harga beli", "stok", "stok min"
    }
));
tblBrg.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tblBrgMouseClicked(evt);
    }
});
jScrollPane1.setViewportView(tblBrg);

jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 18)); // NOI18N
jLabel1.setText("Daftar Barang");

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(jScrollPane1)
                .add(jLabel1))
            .addContainerGap())
);

```

```

        .addContainerGap())
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    layout.createSequentialGroup()
        .addGap(14, 14, 14)
        .addComponent(jLabel1)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
260, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(79, Short.MAX_VALUE)
    );

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

private void tblBrgMouseClicked(java.awt.event.MouseEvent evt) {
    int row =tblBrg.getSelectedRow();
    int tabelBarang = tblBrg.getSelectedRow();
    fAB.idBrg = tblBrg.getValueAt(tabelBarang, 0).toString();
    fAB.namaBrg = tblBrg.getValueAt(tabelBarang, 1).toString();
    fAB.hargaBrg = tblBrg.getValueAt(tabelBarang, 3).toString();
    fAB.itemTerpilih();
    this.dispose();
}

/**
 * @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(frmSelectBarang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

            java.util.logging.Logger.getLogger(frmSelectBarang.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 frmSelectBarang().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable tblBrg;
// End of variables declaration
}

```

#### g) frmTransaksi.java

```

/*
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 * this template
 */
package penjualan;

```

```

import java.sql.Connection;
import java.sql.ResultSet;
import javax.swing.DefaultComboBoxModel;
import javax.swing.JSpinner;
import java.sql.Statement;
import java.util.Calendar;
import javax.swing.JOptionPane;
import java.sql.SQLException;
import java.sql.DriverManager;
import java.awt.print.PrinterException;
import java.sql.*;
import java.text.MessageFormat;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author irfanwidianoro
 */
public class frmTransaksi extends javax.swing.JFrame {
    Connection Con;
        ResultSet RsBrg;
        ResultSet RsKons;
        Statement stm;
        double total=0;
        String tanggal;
        Boolean edit =false;
        DefaultTableModel tableModel = new DefaultTableModel(
            new Object [][] {},
            new String [] {"Kd Barang", "Nama Barang", "Harga
Barang", "Jumlah", "Total"});
//    var pencarian kode barang
    String idBrg;
    String namaBrg;
    String hargaBrg;
    /**
     * Creates new form frmTransaksi
     */
    public frmTransaksi() {
        initComponents();
        open_db();
        inisialisasi_tabel();
        aktif(false);
        setTombol(true);
        txtTgl.setEditor(new JSpinner.DateEditor(txtTgl,"yyyy/MM/dd"));
    }

```

```

private void open_db()
{
    try{
        KoneksiMysql kon = new KoneksiMysql("localhost","root","","pbo");
        Con = (Connection) kon.getConnection();
        //System.out.println("Berhasil ");
    }catch (Exception e) {
        System.out.println("Error : "+e);
    }
}

//method hitung penjualan
private void hitung_jual()
{
    double xtot,xhrg;
    int xjml;

    xhrg=Double.parseDouble(txtHarga.getText());
    xjml=Integer.parseInt(txtJml.getText());
    xtot=xhrg*xjml;
    String xtotal=Double.toString(xtot);
    txtTot.setText(xtotal);
    total=total+xtot;
    txtTotal.setText(Double.toString(total));
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */

private void baca_konsumen()
{
    DefaultComboBoxModel<String> model = new DefaultComboBoxModel<>();
    try {
        stm = Con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
        ResultSet.CONCUR_READ_ONLY);
        RsKons = stm.executeQuery("SELECT kd_kons FROM konsumen");

        while (RsKons.next()) {
            String kodeKonsumen = RsKons.getString("kd_kons");
            model.addElement(kodeKonsumen);
        }

        RsKons.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

```



```

cmbKd_Kons.setModel(model);
}

private void baca_barang() {
    DefaultComboBoxModel<String> model = new DefaultComboBoxModel<>();

    try {
        stm = Con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
ResultSet.CONCUR_READ_ONLY);
        RsBrg = stm.executeQuery("SELECT kd_brg FROM barang");

        while (RsBrg.next()) {
            String kodeBarang = RsBrg.getString("kd_brg");
            model.addElement(kodeBarang);
        }

        RsBrg.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }

    cmbKd_Brg.setModel(model);
}

//method baca barang setelah combo barang di klik
private void detail_barang(String xkode){
    try {
        stm = Con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
ResultSet.CONCUR_READ_ONLY);
        RsBrg = stm.executeQuery("select * from barang where kd_brg = '" + xkode + "'");

        if (RsBrg.next()) {
            String namaBrg = RsBrg.getString("nm_brg");
            int hargaBrg = RsBrg.getInt("harga");

            txtNm_Brg.setText(namaBrg);
            txtHarga.setText(Integer.toString(hargaBrg));
        } else {
            txtNm_Brg.setText("");
            txtHarga.setText("");
        }

        RsBrg.close();
    } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, e);
    }
}

```

```

    }
}

//method baca konsumen setelah combo konsumen di klik
private void detail_konsumen(String xkode)
{
    try {
        stm = Con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
        ResultSet.CONCUR_READ_ONLY);
        RsKons = stm.executeQuery("select * from konsumen where kd_kons = '"
        + xkode + "'");

        if (RsKons.next()) {
            String namaKons = RsKons.getString("nm_kons");
            txtNama.setText(namaKons);
        } else {
            txtNama.setText("");
        }

    } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, e);
    }
}

//method set model tabel
public void inisialisasi_tabel()
{
    tblBrg.setModel(tableModel);
}

//method pengkosongan isian
private void kosong()
{
    txtNoJual.setText("");
    txtNama.setText("");
    txtHarga.setText("");
    txtTotal.setText("");
}

//method kosongkan detail jual
private void kosong_detail()
{
    txtNm_Brg.setText("");
    txtHarga.setText("");
    txtJml.setText("");
    txtTot.setText("");
}

```

```

//method set tombol on/off
private void setTombol(boolean t)
{
    cmdTambah.setEnabled(t);
    cmdSimpan.setEnabled(!t);
    cmdBatal.setEnabled(!t);
    cmdKeluar.setEnabled(t);
    cmdHapusItem.setEnabled(!t);
    btnPilih.setEnabled(!t);
}

//method buat nomor jual otomatis
private void nomor_jual()
{
    try{
        stm=Con.createStatement();
        ResultSet rs=stm.executeQuery("select no_jual from jual");
        int brs=0;

        while(rs.next())
        {
            brs=rs.getRow();
        }
        if(brs==0)
            txtNoJual.setText("1");
        else
        {int nom=brs+1;
            txtNoJual.setText(Integer.toString(nom));
        }
        rs.close();
    }
    catch(SQLException e)
    {
        System.out.println("Error : "+e);
    }
}

//method simpan detail jual di tabel (temporary)
private void simpan_ditabel()
{
    try{
        String tKode=cmbKd_Brg.getSelectedItem().toString();
        String tNama=txtNm_Brg.getText();
        double hrg=Double.parseDouble(txtHarga.getText());
        int jml=Integer.parseInt(txtJml.getText());
        double tot=Double.parseDouble(txtTot.getText());
    }
}

```

```

        tableModel.addRow(new Object[]{tKode,tNama,hrg,jml,tot});
        inialisasi_tabel();

    }
    catch(Exception e)
    {
        System.out.println("Error : "+e);
    }
}

private void simpan_transaksi()
{
    try{
        String xnojual=txtNoJual.getText();
        format_tanggal();
        String xkode=cmbKd_Kons.getSelectedItem().toString();
        String msql="insert into jual values('"+xnojual+"','"+xkode+"','"+tanggal+"')";
        stm.executeUpdate(msql);
        for(int i=0;i<tblBrg.getRowCount();i++)
        {
            String xkd=(String)tblBrg.getValueAt(i,0);
            double xhr=(Double)tblBrg.getValueAt(i,2);
            int xjml=(Integer)tblBrg.getValueAt(i,3);
            String zsql="insert into djual values('"+xnojual+"','"+xkd+"','"+xhr+"','"+xjml+"')";
            stm.executeUpdate(zsql);
        }

        JOptionPane.showMessageDialog(null, "Data penjualan berhasil disimpan.");
    }
    catch(SQLException e)
    {
        System.out.println("Error : "+e);
    }
}

//method membuat format tanggal sesuai dengan MySQL
private void format_tanggal()
{
    String DATE_FORMAT = "yyyy-MM-dd";
    java.text.SimpleDateFormat sdf = new
    java.text.SimpleDateFormat(DATE_FORMAT);
    Calendar c1 = Calendar.getInstance();
    int year=c1.get(Calendar.YEAR);
    int month=c1.get(Calendar.MONTH)+1;
    int day=c1.get(Calendar.DAY_OF_MONTH);
    tanggal=Integer.toString(year)+"-"+Integer.toString(month)+"-
    "+Integer.toString(day);
}

```

```

    }

    @SuppressWarnings("unchecked")

    private class PrintingTask extends SwingWorker<Object, Object> {
    private final MessageFormat headerFormat;
    private final MessageFormat footerFormat;
    private final boolean interactive;
    private volatile boolean complete = false;
    private volatile String message;

    public PrintingTask(MessageFormat header, MessageFormat footer, boolean
    interactive) {
        this.headerFormat = header;
        this.footerFormat = footer;
        this.interactive = interactive;
    }

    @Override
    protected Object doInBackground() {
        try {
            complete = text.print(headerFormat, footerFormat,
            true, null, null, interactive);
            message = "Printing " + (complete ? "complete" : "canceled");
        } catch (PrinterException ex) {
            message = "Sorry, a printer error occurred";
        } catch (SecurityException ex) {
            message = "Sorry, cannot access the printer due to security reasons";
        }
        return null;
    }

    @Override
    protected void done() {
        showMessage(!complete, message);
    }
}

private void showMessage(boolean isError, String message) {
    if (isError) {
        JOptionPane.showMessageDialog(null, message, "Error",
        JOptionPane.ERROR_MESSAGE);
    } else {
        JOptionPane.showMessageDialog(null, message, "Information",
        JOptionPane.INFORMATION_MESSAGE);
    }
}

public void itemTerpilih(){

```

```

frmSelectBarang fDB = new frmSelectBarang();
fDB.fAB = this;
txtId.setText(idBrg);
cmbKd_Brg.setSelectedItem(idBrg);
txtNm_Brg.setText(namaBrg);
txtHarga.setText(hargaBrg);
// txtTot.setText(txtTotal);
}

//Menghitung Kembalian
private void hitung_bayar(){
    double xtotal,xbayar, xkembali;

    xtotal=Double.parseDouble(txtTotal.getText());
    xbayar=Double.parseDouble(txtBayar.getText());
    xkembali=xbayar-xtotal;
    String xkembalixx=Double.toString(xkembali);
    txtKembali.setText(xkembalixx);
}

//kosongi table penjualan
private void kosong_table(){
    DefaultTableModel model = (DefaultTableModel) tblBrg.getModel();
    model.setRowCount(0); // Menghapus semua baris dalam tabel
}

// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    txtNoJual = new javax.swing.JTextField();
    txtTgl = new javax.swing.JSpinner();
    jLabel3 = new javax.swing.JLabel();
    cmbKd_Kons = new javax.swing.JComboBox<>();
    jLabel4 = new javax.swing.JLabel();
    txtNama = new javax.swing.JTextField();
    jScrollPane1 = new javax.swing.JScrollPane();
    tblBrg = new javax.swing.JTable();
    cmdTambah = new javax.swing.JButton();
    cmdSimpan = new javax.swing.JButton();
    cmdBatal = new javax.swing.JButton();
    cmdCetak = new javax.swing.JButton();
    cmdKeluar = new javax.swing.JButton();
    jLabel5 = new javax.swing.JLabel();
    txtTotal = new javax.swing.JTextField();
    cmbKd_Brg = new javax.swing.JComboBox<>();
    txtNm_Brg = new javax.swing.JTextField();
    txtHarga = new javax.swing.JTextField();

```

```

txtJml = new javax.swing.JTextField();
txtTot = new javax.swing.JTextField();
cmdHapusItem = new javax.swing.JButton();
btnPilih = new javax.swing.JButton();
txtId = new javax.swing.JTextField();
jScrollPane2 = new javax.swing.JScrollPane();
text = new javax.swing.JTextArea();
jLabel6 = new javax.swing.JLabel();
jLabel7 = new javax.swing.JLabel();
txtBayar = new javax.swing.JTextField();
txtKembali = new javax.swing.JTextField();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setText("No Jual");

jLabel2.setText("Tgl Jual");

txtNoJual.setText(" ");

txtTgl.setModel(new javax.swing.SpinnerDateModel());

jLabel3.setText("Kode Konsumen");

cmbKd_Kons.setModel(new javax.swing.DefaultComboBoxModel<>(new String[]
{ "Item 1", "Item 2", "Item 3", "Item 4" }));
cmbKd_Kons.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmbKd_KonsActionPerformed(evt);
    }
});

jLabel4.setText("Nama Konsumen");

txtNama.setText(" ");
txtNama.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtNamaActionPerformed(evt);
    }
});

tblBrg.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null},
        {null, null, null, null, null},
        {null, null, null, null, null},
        {null, null, null, null, null}
    },

```

```

        new String [] {
            "Kd Barang", "Nama Barang", "Harga Barang", "Jumlah", "Total"
        }
    });
    jScrollPane1.setViewportView(tblBrg);

    cmdTambah.setText("Tambah");
    cmdTambah.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            cmdTambahActionPerformed(evt);
        }
    });

    cmdSimpan.setText("Simpan");
    cmdSimpan.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            cmdSimpanActionPerformed(evt);
        }
    });

    cmdBatal.setText("Batal");
    cmdBatal.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            cmdBatalActionPerformed(evt);
        }
    });

    cmdCetak.setText("Cetak");
    cmdCetak.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            cmdCetakActionPerformed(evt);
        }
    });

    cmdKeluar.setText("Keluar");
    cmdKeluar.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            cmdKeluarActionPerformed(evt);
        }
    });

    jLabel5.setText("Total");

    txtTotal.setText("");
    txtTotal.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtTotalActionPerformed(evt);
        }
    });

```



```

});

cmbKd_Brg.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"Item 1", "Item 2", "Item 3", "Item 4" }));
cmbKd_Brg.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmbKd_BrgActionPerformed(evt);
    }
});

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

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

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

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

cmdHapusItem.setText("Hapus Item");

btnPilih.setText("Pilih Barang");
btnPilih.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnPilihActionPerformed(evt);
    }
});

txtId.setText("");
txtId.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtIdActionPerformed(evt);
    }
});

```

```
});

text.setColumns(20);
text.setRows(5);
jScrollPane2.setViewportViewView(text);

jLabel6.setText("Bayar");

jLabel7.setText("Kembali");

txtBayar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtBayarActionPerformed(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()
        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(txtTotal, javax.swing.GroupLayout.PREFERRED_SIZE,
145, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
        .addComponent(cmdTambah)
        .addGap(18, 18, 18)
        .addComponent(cmdSimpan)
        .addGap(18, 18, 18)
        .addComponent(cmdBatal)
        .addGap(18, 18, 18)
        .addComponent(cmdCetak)
        .addGap(18, 18, 18)
        .addComponent(cmdKeluar)))
        .addGap(17, 17, 17))
        .addGroup(layout.createSequentialGroup()
        .addGap(34, 34, 34)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```

        .addComponent(jScrollPane1,
javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addComponent(cmbKd_Brg,
javax.swing.GroupLayout.PREFERRED_SIZE, 87,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(51, 51, 51)
        .addComponent(txtNm_Brg, javax.swing.GroupLayout.PREFERRED_SIZE,
98, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(34, 34, 34)
        .addComponent(txtHarga, javax.swing.GroupLayout.PREFERRED_SIZE,
85, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(38, 38, 38)
        .addComponent(txtJml, javax.swing.GroupLayout.PREFERRED_SIZE, 87,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(32, 32, 32)
        .addComponent(txtTot, javax.swing.GroupLayout.PREFERRED_SIZE, 96,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(20, 20, 20))
        .addGroup(layout.createSequentialGroup())

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
            .addComponent(cmdHapusItem)
            .addGap(42, 42, 42)
            .addComponent(btnPilih)
            .addGap(18, 18, 18)
            .addComponent(txtId, javax.swing.GroupLayout.PREFERRED_SIZE,
71, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup())

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel1)
        .addComponent(jLabel2,
javax.swing.GroupLayout.PREFERRED_SIZE, 48,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(23, 23, 23)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
        .addComponent(txtNoJual)
        .addComponent(txtTgl))
        .addGap(124, 124, 124)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel3)
        .addComponent(jLabel4))

```

```

        .addGap(70, 70, 70)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
            .addComponent(cmbKd_Kons, 0, 108, Short.MAX_VALUE)
            .addComponent(txtNama)))
        .addGroup(layout.createSequentialGroup()
            .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 412,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel6,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(txtBayar))
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel7)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(txtKembali))))))
        .addGap(10, 10, 10)))
        .addContainerGap()
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(35, 35, 35)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)
            .addComponent(jLabel1)
            .addComponent(txtNoJual, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel3)
            .addComponent(cmbKd_Kons, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)
            .addComponent(jLabel2)
            .addComponent(txtTgl, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(jLabel4)
        .addComponent(txtNama, 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(cmbKd_Brg, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtNm_Brg, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtHarga, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtJml, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtTot, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

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

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)
        .addComponent(btnPilih)
        .addComponent(txtId, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(cmdHapusItem))
        .addGap(18, 18, 18)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
156, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(cmdHapusItem)
            .addGap(62, 62, 62)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)
        .addComponent(jLabel5)
        .addComponent(txtTotal, 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(jLabel6)

```

```

        .addComponent(txtBayar, 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(jLabel7)
            .addComponent(txtKembali,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(layout.createSequentialGroup()
            .addGap(27, 27, 27)
            .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 176,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
44, Short.MAX_VALUE)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)
            .addComponent(cmdKeluar)
            .addComponent(cmdCetak)
            .addComponent(cmdBatal)
            .addComponent(cmdSimpan)
            .addComponent(cmdTambah))
        .addGap(16, 16, 16)
    );

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

private void cmbKd_KonsActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String kdKons = cmbKd_Kons.getSelectedItem().toString();
    detail_konsumen(kdKons);
}

private void cmbKd_BrgActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String kdBrg = cmbKd_Brg.getSelectedItem().toString();
    detail_barang(kdBrg);
}

private void cmdTambahActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    aktif(true);
    setTombol(false);
}

```

```

        baca_barang();
        baca_konsumen();
        kosong();
        kosong_detail();
        kosong_table();
        nomor_jual();
    }

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

    private void cmdBatalActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        aktif(false);
        setTombol(true);
        kosong();
        kosong_detail();
        kosong_table();
        text.setText("");
    }

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

    private void cmdCetakActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        format_tanggal();
        String ctk="Nota Penjualan\nNo:"+txtNoJual.getText()+"\nTanggal : "+tanggal;
        ctk=ctk+"\n"+"-----";
        -----";
        ctk=ctk+"\n"+"Kode\tNama Barang\t\tHarga\tJml\tTotal";
        ctk=ctk+"\n"+"-----";
        -----";

        for(int i=0;i<tblBrg.getRowCount();i++)
        {
            String xkd=(String)tblBrg.getValueAt(i,0);
            String xnama=(String)tblBrg.getValueAt(i,1);
            double xhr=(Double)tblBrg.getValueAt(i,2);
            int xjml=(Integer)tblBrg.getValueAt(i,3);
            double xtota=(Double)tblBrg.getValueAt(i,4);
            ctk=ctk+"\n"+xkd+"\t"+xnama+"\t\t"+xhr+"\t"+xjml+"\t"+xtota;
        }
    }

```

```

        ctk=ctk+"\n"+"-----";
        -----";
        ctk=ctk+"\n\t\t\t\t\t"+txtTotal.getText();
        text.setText(ctk);

        String headerField="";
        String footerField="";
        MessageFormat header = new MessageFormat(headerField);
        MessageFormat footer = new MessageFormat(footerField);
        boolean interactive = true;//interactiveCheck.isSelected();
        boolean background = true;//backgroundCheck.isSelected();
        PrintingTask task = new PrintingTask(header, footer, interactive);

        if (background) {
            task.execute();
        } else {
            task.run();
        }
    }

    private void btnPilihActionPerformed(java.awt.event.ActionEvent evt) {
        frmSelectBarang fDB = new frmSelectBarang();
        fDB.fAB = this;
        fDB.setVisible(true);
        fDB.setResizable(false);

        // TODO add your handling code here:
    }

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

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

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

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

```



```

    }

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

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

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

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


    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(frmTransaksi.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

```

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

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

```
java.util.logging.Logger.getLogger(frmTransaksi.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 frmTransaksi().setVisible(true);
    }
});
}
```

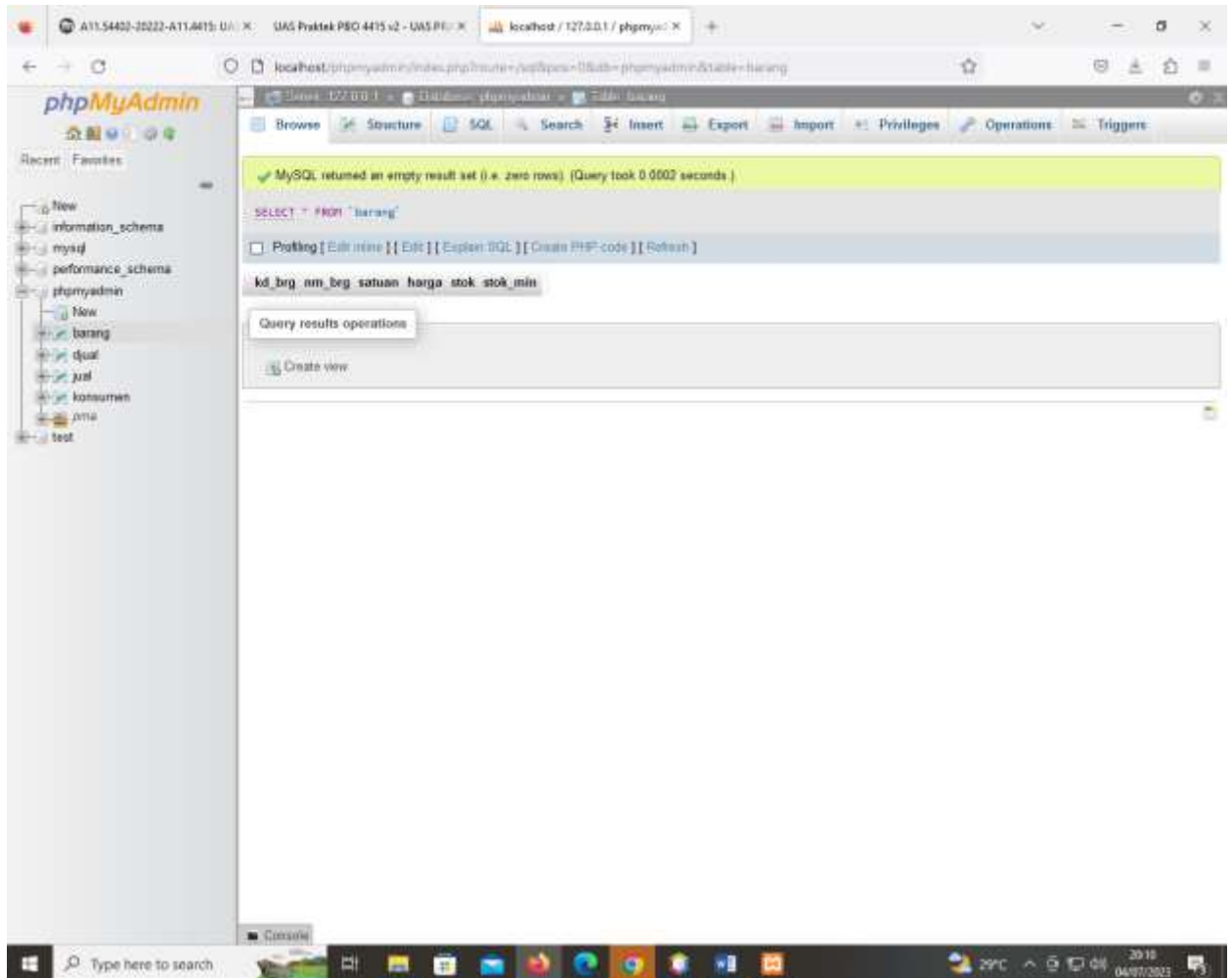
```
// Variables declaration - do not modify
private javax.swing.JButton btnPilih;
private javax.swing.JComboBox<String> cmbKd_Brg;
private javax.swing.JComboBox<String> cmbKd_Kons;
private javax.swing.JButton cmdBatal;
private javax.swing.JButton cmdCetak;
private javax.swing.JButton cmdHapusItem;
private javax.swing.JButton cmdKeluar;
private javax.swing.JButton cmdSimpan;
private javax.swing.JButton cmdTambah;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTable tblBrg;
private javax.swing.JTextArea text;
private javax.swing.JTextField txtBayar;
private javax.swing.JTextField txtHarga;
private javax.swing.JTextField txtId;
private javax.swing.JTextField txtJml;
private javax.swing.JTextField txtKembali;
```

```
private javax.swing.JTextField txtNama;  
private javax.swing.JTextField txtNm_Brg;  
private javax.swing.JTextField txtNoJual;  
private javax.swing.JSpinner txtTgl;  
private javax.swing.JTextField txtTot;  
private javax.swing.JTextField txtTotal;  
// End of variables declaration  
  
private void aktif(boolean x)  
{  
    txtNoJual.setEnabled(x);  
    txtNoJual.setEditable(false);  
  
    txtNama.setEnabled(x);  
    txtNama.setEditable(false);  
  
    txtNm_Brg.setEnabled(x);  
    txtNm_Brg.setEditable(false);  
  
    txtHarga.setEnabled(x);  
    txtHarga.setEditable(false);  
  
    txtJml.setEnabled(x);  
    txtTot.setEnabled(x);  
    txtTot.setEditable(false);  
  
    txtTotal.setEnabled(x);  
    txtTotal.setEditable(false);  
  
    txtBayar.setEnabled(x);  
  
    txtKembali.setEnabled(x);  
    txtKembali.setEditable(false);  
  
    txtTot.setEnabled(x);  
    txtTotal.setEnabled(x);  
    txtId.setEnabled(x);  
  
    cmbKd_Kons.setEnabled(x);  
    cmbKd_Brg.setEnabled(x);  
    txtTgl.setEnabled(x);  
    txtJml.setEditable(x);  
}  
  
}
```



Table barang

sebelum



Sesudah

Browser tabs: A11.54402-2022-A11.A115: DA: X, UAS Praktek PBO 4415 v2 - UAS PBO: X, localhost / 127.0.0.1 / phpmyadmin: X, My Drive - Google Drive: X

Address bar: localhost/phpmyadmin/index.php?route=/phpmyadmin/phpmyadmin/table/barang&tbl=0

phpMyAdmin interface:

- Recent: Favorites
- Database: phpmyadmin
  - New
  - information\_schema
  - mysql
  - performance\_schema
  - phpmyadmin
    - New
    - barang
    - djual
    - jual
    - konsumen
    - pms
  - test

Query: `SELECT * FROM barang`

Showing rows 0 - 0 (1 total. Query took 0.0002 seconds.)

Buttons: [Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Privileges](#) [Operations](#) [Triggers](#)

Buttons: [Pasting](#) [Edit inline](#) [Edit](#) [Explain SQL](#) [Create PHP code](#) [Refresh](#)

Buttons: [Show all](#) | Number of rows: 25 | Filter rows:

Extra options

	kd_brg	nm_brg	satuan	harga	stok	stok_min
<input type="checkbox"/>	0001	barang 1	5 kg	12000	4	2

Buttons: [Check all](#) | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

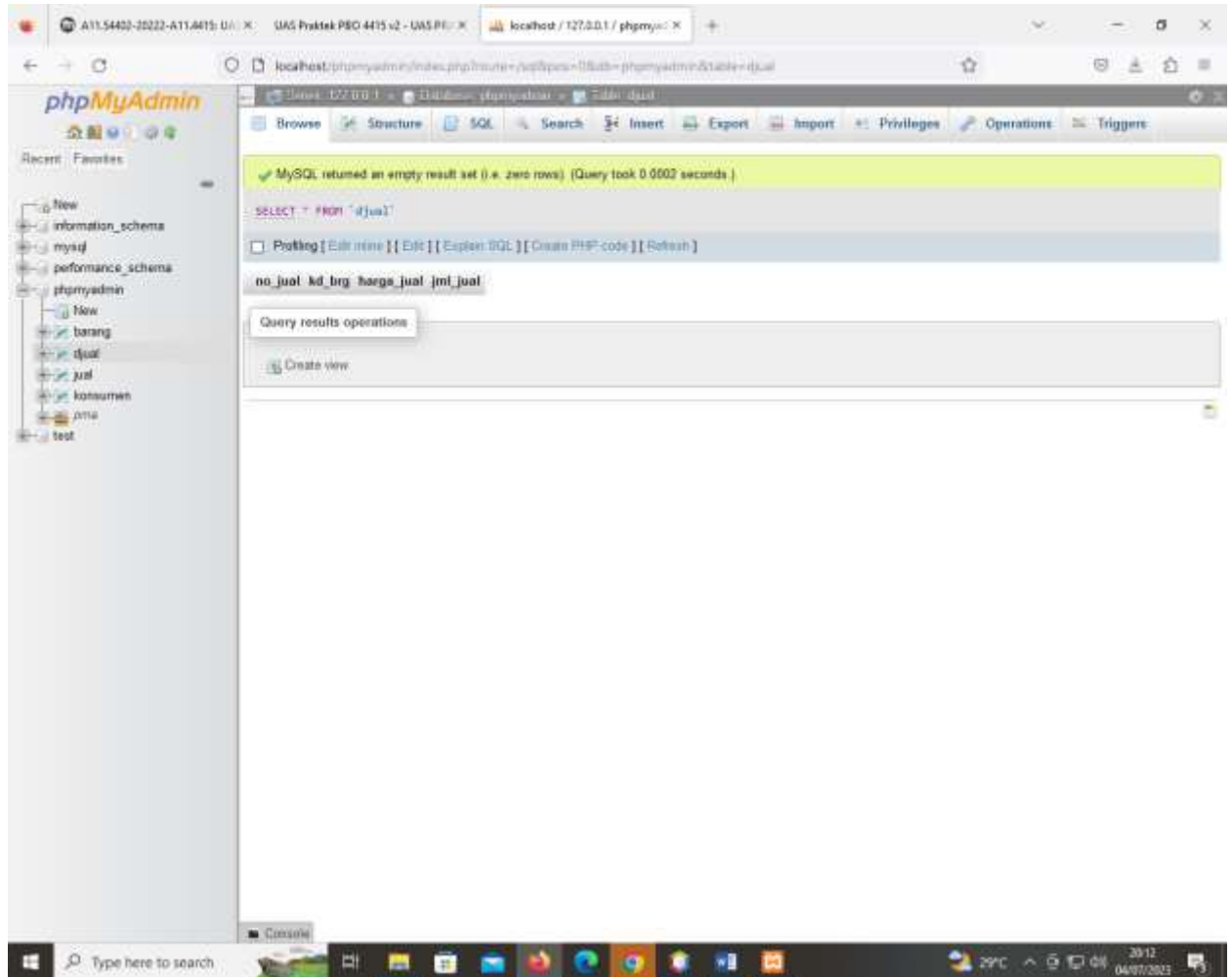
Buttons: [Show all](#) | Number of rows: 25 | Filter rows:

Query results operations

Buttons: [Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Windows taskbar: Type here to search, 29°C, 04/07/2023

Table djual  
sebelum



Sesudah

Browser tabs: A11.54403-2022-A11.A115: DA X, UAS Praktek PBO 4415 v2 - UAS PBO X, localhost / 127.0.0.1 / phpmyadmin X, My Drive - Google Drive X

Address bar: localhost/phpmyadmin/index.php?route=/sql&db=phpmyadmin&table=djual&op=0

phpMyAdmin interface:

- Recent: Favorites
- Database: phpmyadmin
  - New
  - information\_schema
  - mysql
  - performance\_schema
  - phpmyadmin
    - New
    - barang
    - djual
    - jual
    - konsumen
    - ptns
    - test

Message: Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 0 (1 total, Query took 0.0002 seconds)

SQL: SELECT \* FROM "djual"

Buttons: ☐ Profiling, [Edit view](#), [Edit](#), [Explain SQL](#), [Create PHP code](#), [Refresh](#)

Table: djual

no_jual	kd_brg	harga_jual	jml_jual
0001	0001	12000	5

Buttons: ☐ Show all, Number of rows: 25, Filter rows: Search this table

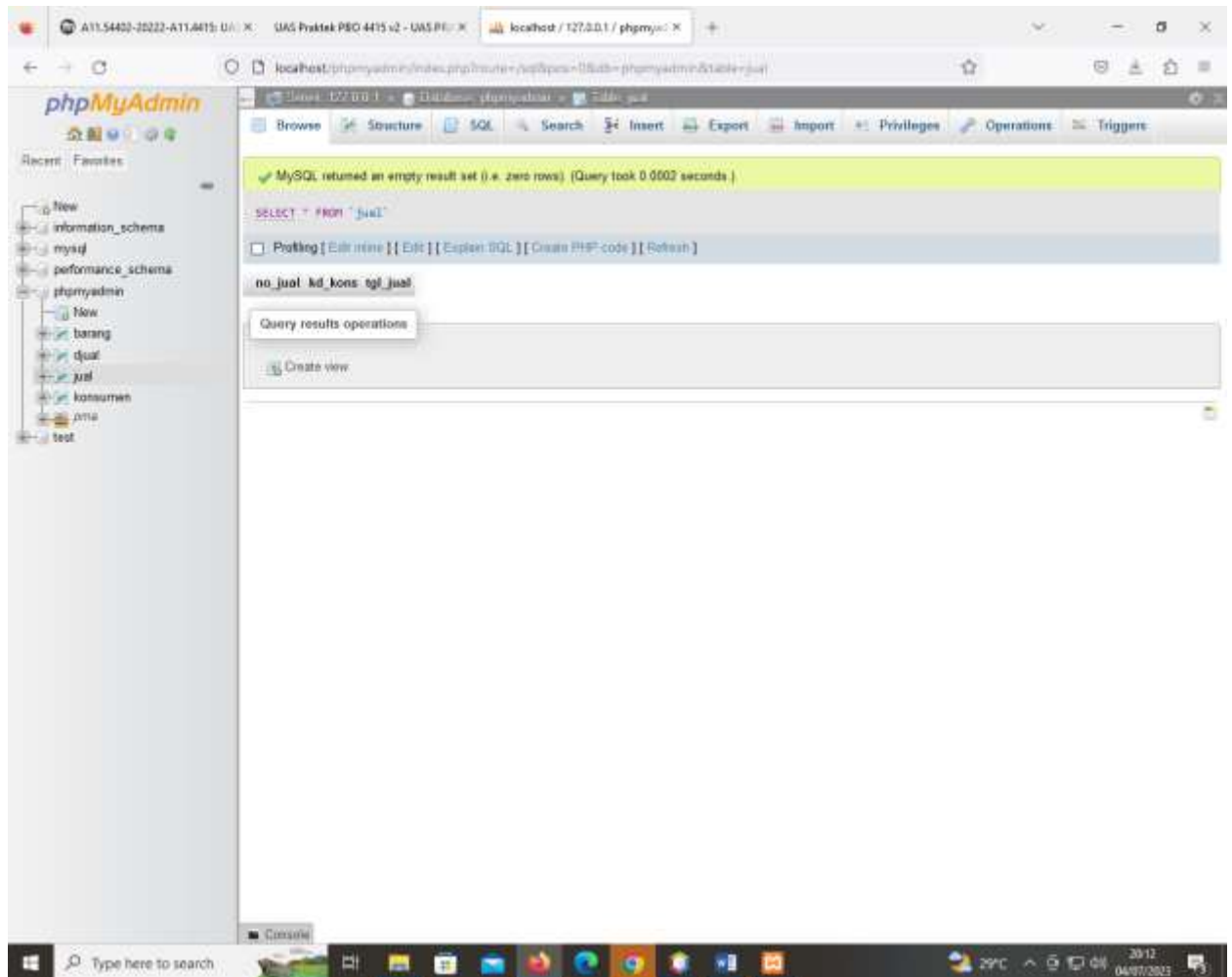
Extra options

Query results operations: [Print](#), [Copy to clipboard](#), [Export](#), [Display chart](#), [Create view](#)

Footer: localhost/phpmyadmin/index.php?route=/sql&db=phpmyadmin&table=djual&op=0

Windows taskbar: Type here to search, 29°C, 04/07/2023

Table jual  
sebelum



Sesudah



A screenshot of a web browser displaying the phpMyAdmin interface. The browser's address bar shows the URL: localhost/phpmyadmin/index.php?route=jual&db=phpmyadmin&table=jual&pos=0. The phpMyAdmin interface includes a sidebar with a database structure tree on the left, listing databases like information\_schema, mysql, performance\_schema, and phpmyadmin, with sub-items like New, barang, jual, konsumen, and pmia. The main panel shows the 'jual' table selected. A message at the top indicates 'Showing rows 0 - 0 (1 total. Query took 0.0002 seconds.)'. Below this, the SQL query 'SELECT \* FROM `jual`' is displayed. A 'Proking' button is visible. The table data is shown with columns 'no\_jual', 'kd\_kons', and 'tgl\_jual'. The first row contains the values '0001', 'a15', and '0000-00-00'. Below the table, there are buttons for 'Check all', 'With selected', 'Edit', 'Copy', 'Delete', and 'Export'. At the bottom of the interface, there are buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray information including the date and time (20:26, 04/07/2023).

Showing rows 0 - 0 (1 total. Query took 0.0002 seconds.)

SELECT \* FROM `jual`

Proking [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	no_jual	kd_kons	tgl_jual
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	0001	a15	0000-00-00

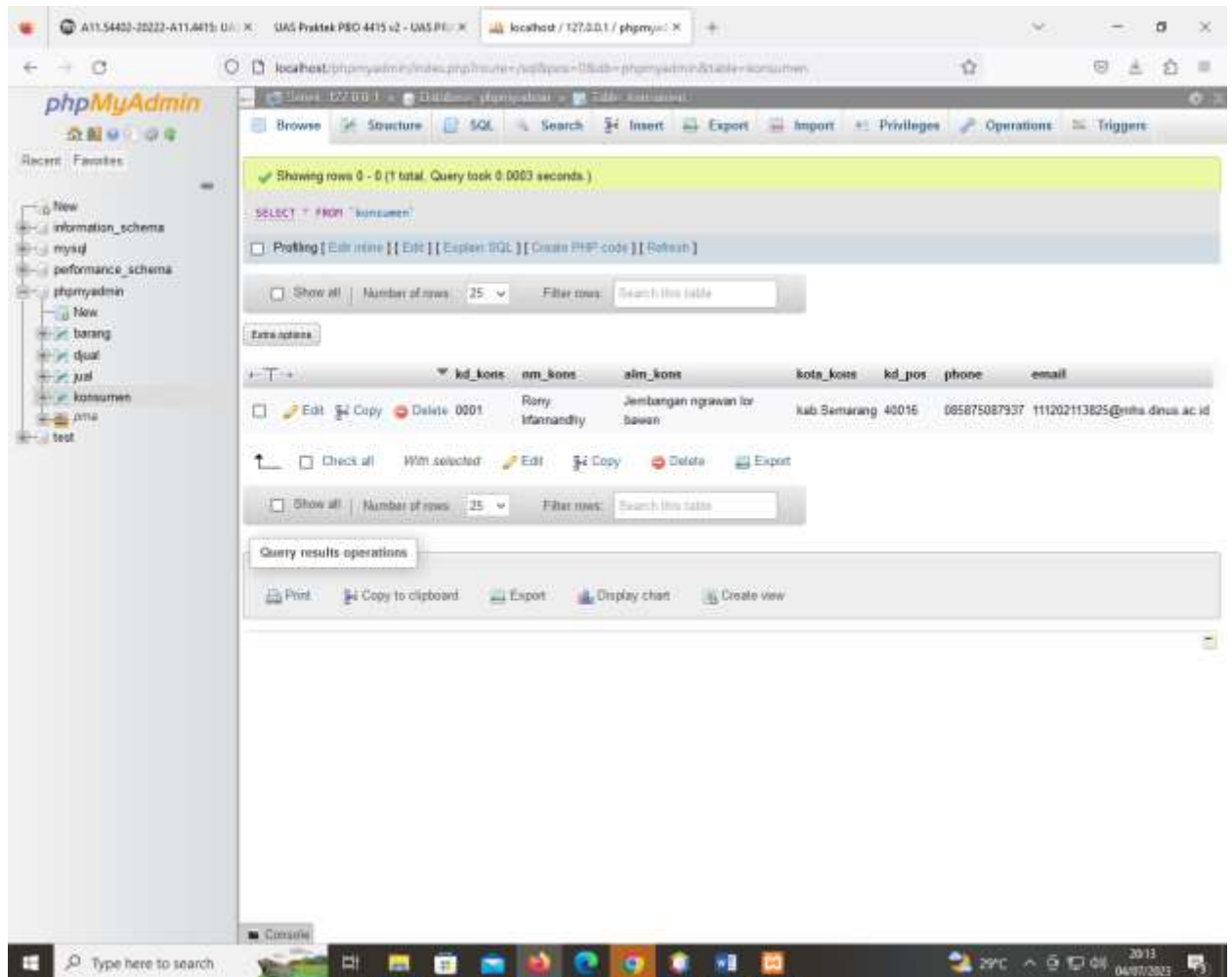
☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

☐ Print ☐ Copy to clipboard ☐ Export ☐ Display chart ☐ Create view

Table konsumen  
sebelum



The screenshot shows the phpMyAdmin web interface. On the left is a sidebar with a database tree. The main panel displays the 'konsumen' table in the 'phpmyadmin' database. The table structure is shown with columns: kd\_kons, nm\_kons, alm\_kons, kota\_kons, kd\_pos, phone, and email. A single row of data is visible. Below the table are options for query results operations like Print, Copy to clipboard, Export, Display chart, and Create view.

kd_kons	nm_kons	alm_kons	kota_kons	kd_pos	phone	email
0001	Rory Infanandity	Jembatan ngrawan lor bawen	kab Semarang	40016	085875087937	111202113825@nha.dinus.ac.id

Sesudah

Browser tabs: A11.54402-2022-A11.A115: UA X, UAS Praktek PBO 4415 v2 - UAS PBO X, localhost / 127.0.0.1 / phpmyadmin X, My Drive - Google Drive X

Address bar: localhost/phpmyadmin/index.php?route=/sql&db=phpmyadmin&table=konsumen&pos=0

phpMyAdmin interface:

- Recent: Favorites
- Database: phpmyadmin
  - New
  - information\_schema
  - mysql
  - performance\_schema
  - phpmyadmin
    - New
    - barang
    - dual
    - jual
    - konsumen
    - ptms
    - test

Query: `SELECT * FROM 'konsumen'`

Showing rows 0 - 1 (2 total. Query took 0.0002 seconds.)

Buttons: [Pasting](#) [Edit inline](#) [Edit](#) [Explain SQL](#) [Create PHP code](#) [Refresh](#)

Controls: ☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	id_kons	nm_kons	alm_kons	kota_kons	id_pos	phone	email
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	0001	Rony Infannandhy	Jembatan ngawan lor Bowen	kab Semarang	40016	095875087937	111202113825@mts.dinus.ac.id
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	a15	Infannandhy	tembaling	Semarang	10092	098738940508	infan@gmail.com

Actions: ☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

Controls: ☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Buttons: [Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Windows: Console

Taskbar: Type here to search, 29°C, 04/07/2023