Database:

- beras
  - New
  - daftar
    - Columns
      - New
      - harga (int)
      - kode_beras (PRI, varchar)
      - nama_beras (varchar)
      - stok (int)
    - Indexes
  - transaksi
    - Columns
      - New
      - bayar (int)
      - kode_beras (varchar)
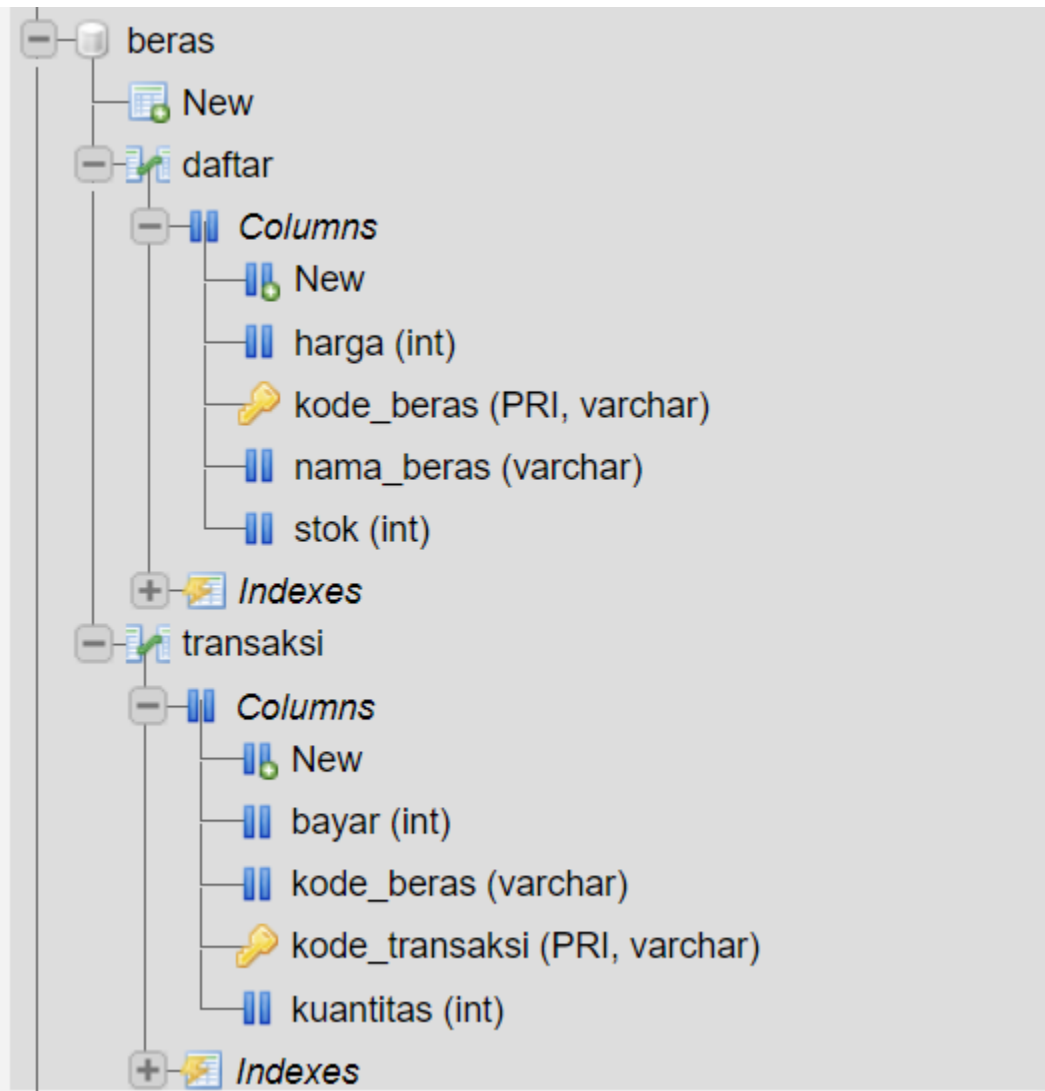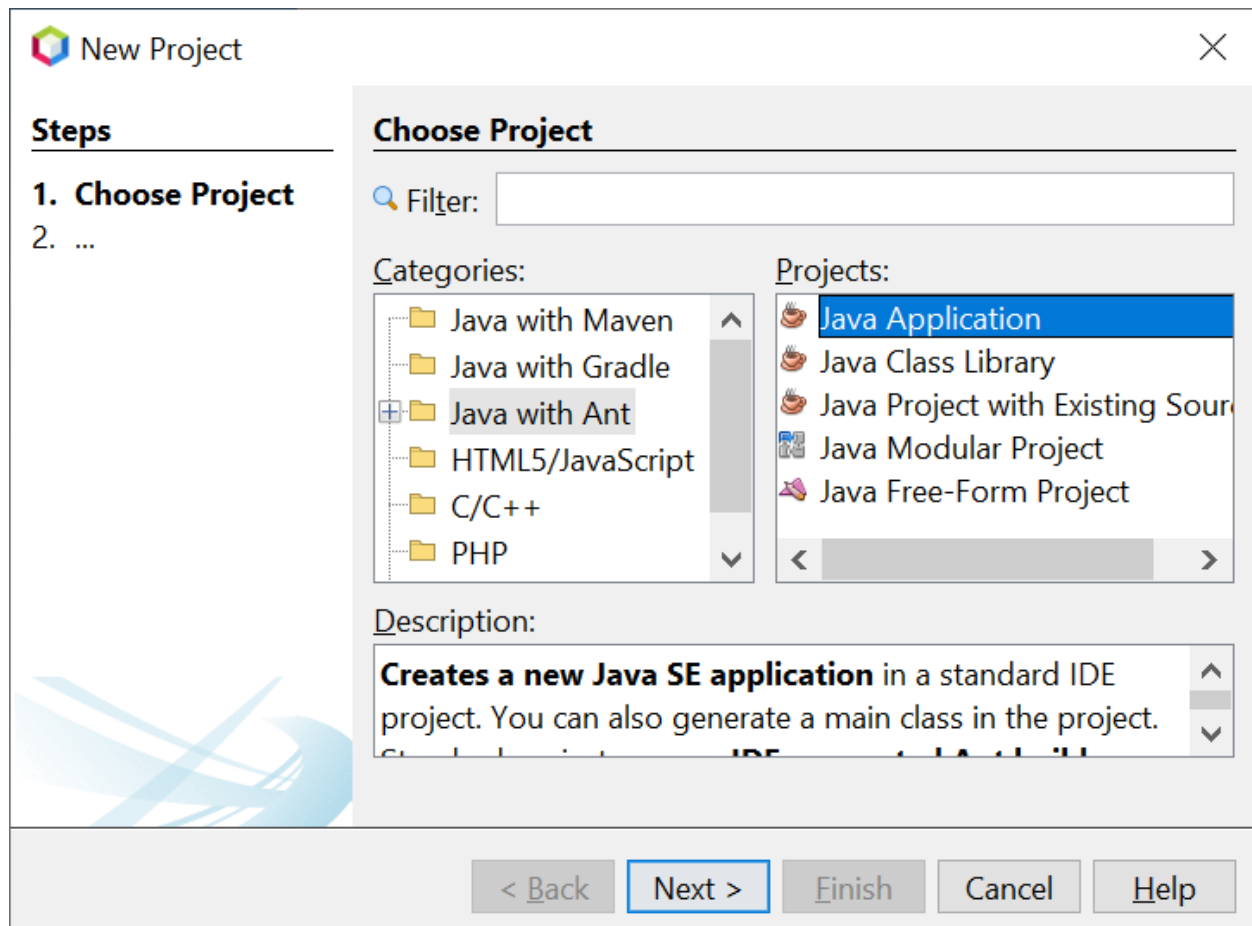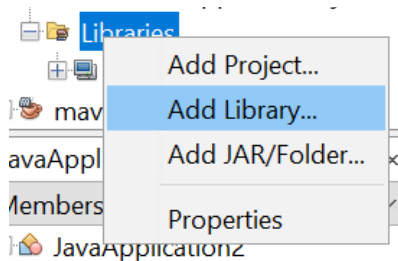      - kode_transaksi (PRI, varchar)
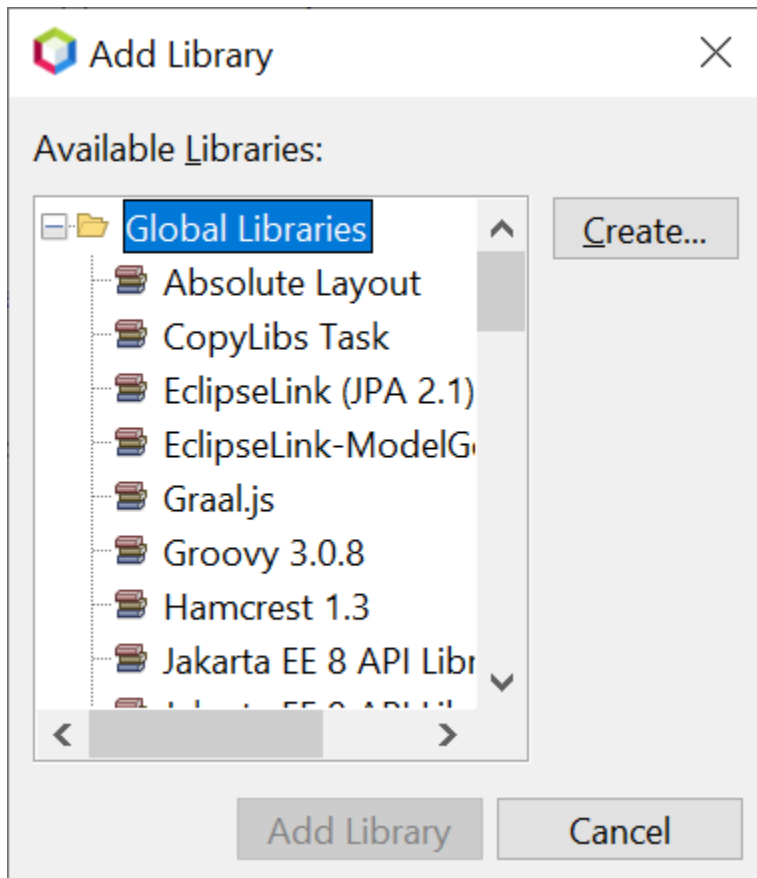      - kuantitas (int)
    - Indexes

Buat project baru dengan cara klik File – New Project – Java with Ant – Java Application – klik Next – klik Finish
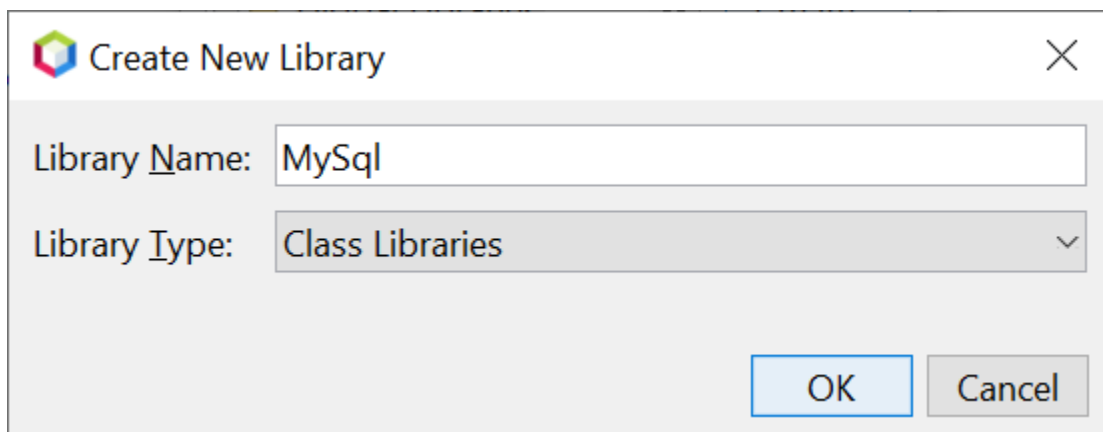


Tambahkan library, klik kanan Library – Add Library
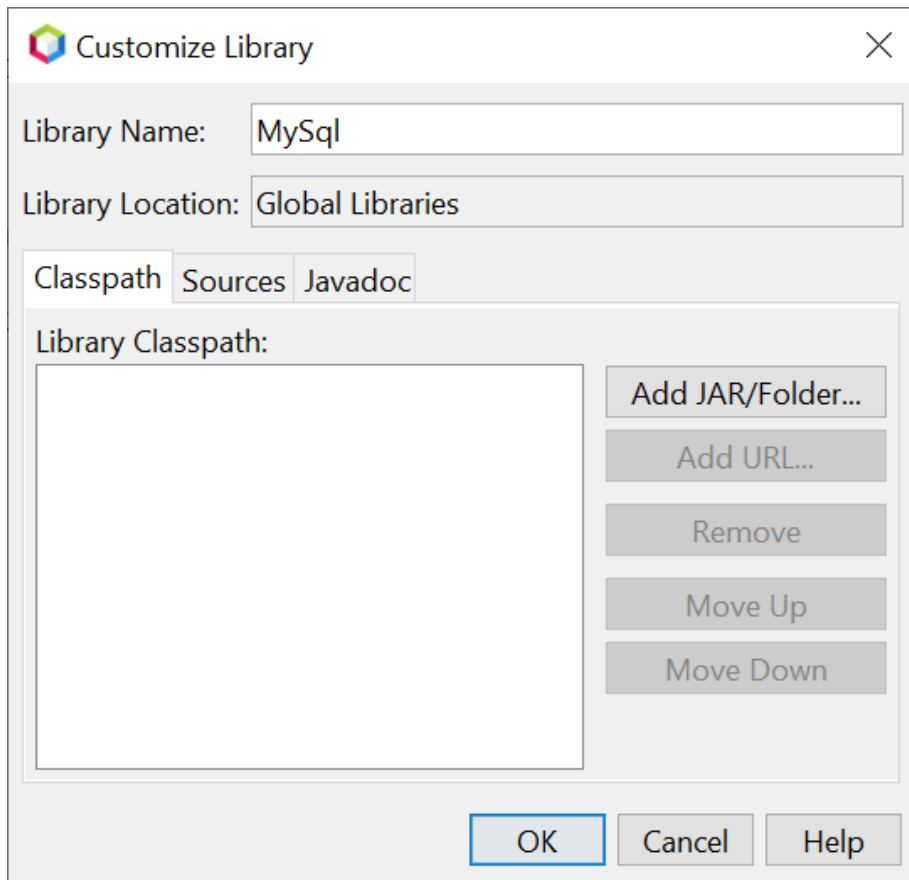
Klik Create
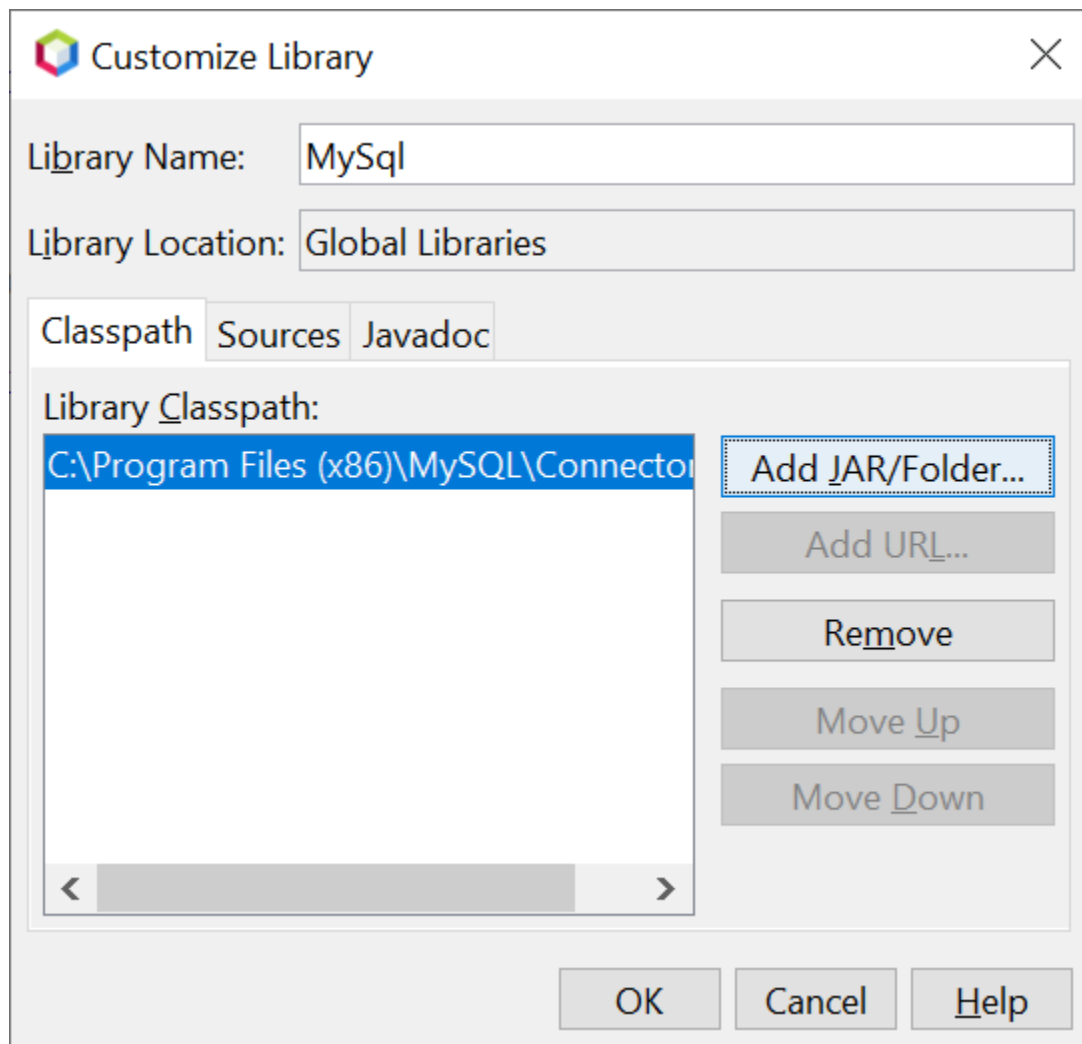


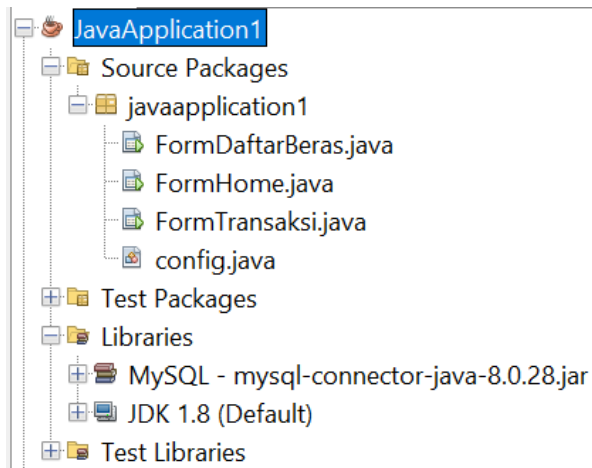Ubah Library Name menjadi MySql - Ok

Klik Add JAR/Folder



Tambahkan file mysql-connector-java-8.0.28.jar yang tersimpan di C:\Program Files (x86)\MySQL\Connector J 8.0

Klik OK

Project:



Config.java

```java
package javaapplication1;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class config {
    private static Connection mysqlconfig;
    public static Connection configDB()throws SQLException{
        try {
            String url="jdbc:mysql://localhost:3306/beras"; //url database
            String user="root"; //user database
            String pass=""; //password database
            DriverManager.registerDriver(new com.mysql.cj.jdbc.Driver());
            mysqlconfig=DriverManager.getConnection(url, user, pass);
        } catch (Exception e) {
            System.err.println("koneksi gagal "+e.getMessage()); //perintah menampilkan error pada koneksi
        }
        return mysqlconfig;
    }
}
```

FormHome
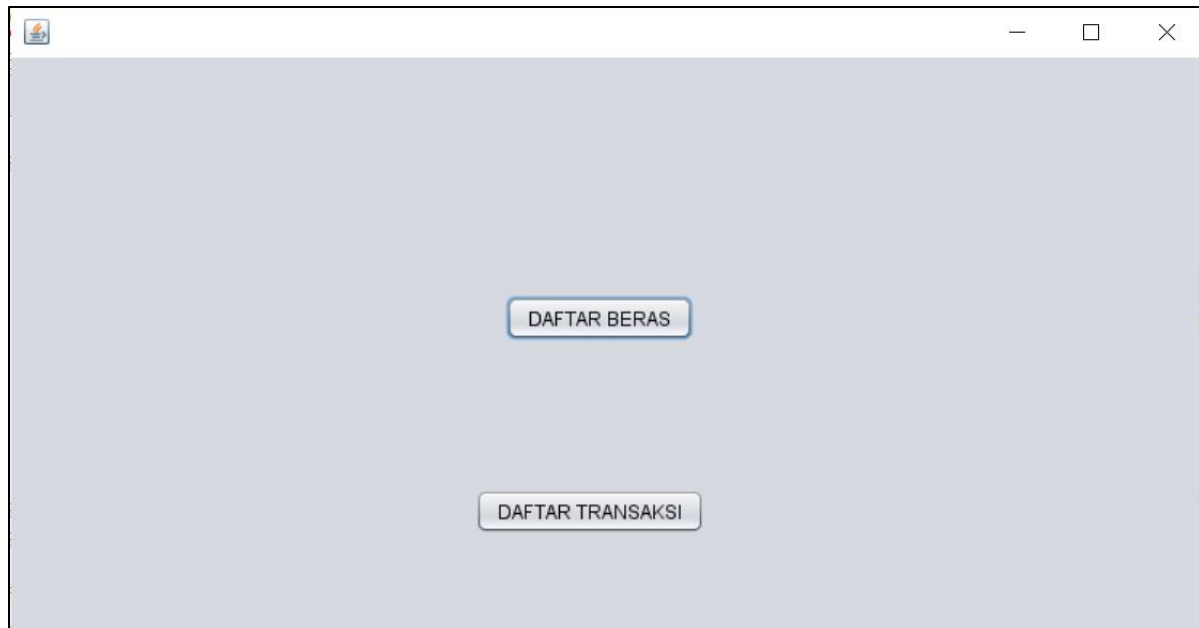


Button "DAFTAR BERAS" on click

```java
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new FormDaftarBeras().show();
    dispose();
}
```

Button "DAFTAR TRANSAKSI"

```java
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new FormTransaksi().show();
    dispose();
}
```

Form Daftar beras



TOKO BERAS BANUA

DAFTAR BERAS

| Kode Beras | | Tambah |
| Nama Beras | | Edit |
| Harga | | |
| Stok Beras | | hapus |

| | | | 1 | Cari |

| No | Kode Beras | Nama Beras | Harga Beras | Stok |
|----|-----------|-------------|-------------|------|
| 1 | B1001 | Beras Banjar | 12000 | 50 |
| 2 | B1002 | Beras Jawa | 14000 | 50 |
| 3 | B1003 | Beras Merah | 21000 | 30 |
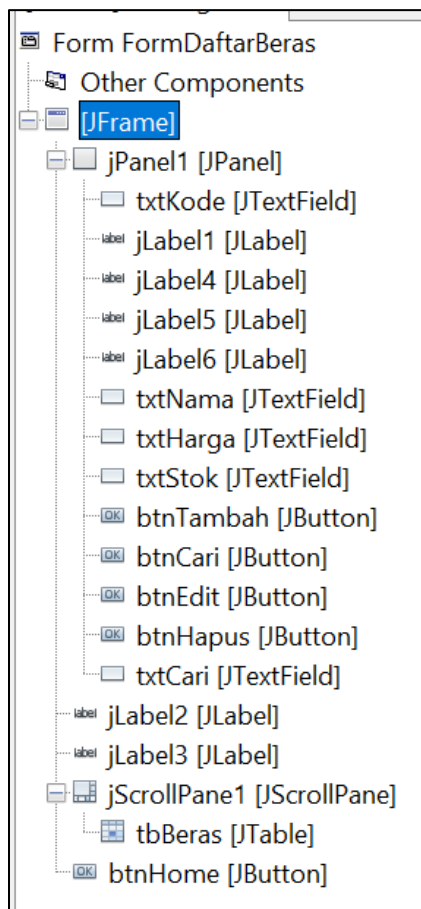


- Form FormDaftarBeras
  - Other Components
  - [JFrame]
    - jPanel1 [JPanel]
      - txtKode [JTextField]
      - jLabel1 [JLabel]
      - jLabel4 [JLabel]
      - jLabel5 [JLabel]
      - jLabel6 [JLabel]
      - txtNama [JTextField]
      - txtHarga [JTextField]
      - txtStok [JTextField]
      - btnTambah [JButton]
      - btnCari [JButton]
      - btnEdit [JButton]
      - btnHapus [JButton]
      - txtCari [JTextField]
    - jLabel2 [JLabel]
    - jLabel3 [JLabel]
    - jScrollPane1 [JScrollPane]
      - tbBeras [JTable]
    - btnHome [JButton]

Import:

```java
import javax.swing.*;
import javax.swing.table.* ;
import java.sql.Connection;
```

Method load_table()

```java
//menampilkan isi tabel
private void load_table(){
    // membuat tampilan model tabel
    DefaultTableModel model = new DefaultTableModel();
    model.addColumn("No");
    model.addColumn("Kode Beras");
    model.addColumn("Nama Beras");
    model.addColumn("Harga Beras");
    model.addColumn("Stok");

    //menampilkan data database kedalam tabel
    try {
        int no=1;
        String sql = "select * from daftar";
        java.sql.Connection conn=(Connection)config.configDB();
        java.sql.Statement stm=conn.createStatement();
        java.sql.ResultSet res=stm.executeQuery(sql);
        while(res.next()){
            model.addRow(new Object[]{no++,res.getString(1),res.getString(2),res.getString(3),res.getString(4)});
        }
        tbBeras.setModel(model);
    } catch (Exception e) {
    }
}
```

Method kosong()

```java
//mengosongkan form
    private void kosong(){
        txtHarga.setText(null);
        txtKode.setText(null);
        txtNama.setText(null);
        txtStok.setText(null);
    }
```

Memanggil load_table() dan kosong() ke dalam form

```java
public FormDaftarBeras() {
    initComponents();
    load_table();
    kosong();
}
```

Button Home:

```java
private void btnHomeActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new FormHome().show();
    dispose();
}
```

Button Tambah

```java
private void btnTambahActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String kode = txtKode.getText();
    String nama = txtNama.getText();
    int harga =Integer.parseInt(txtHarga.getText());
    int stok = Integer.parseInt(txtStok.getText());
    try {
        String sql = "INSERT INTO daftar VALUES ('"+kode+"','"+nama+"','"+harga+"','"+stok+"')";
        java.sql.Connection conn=(Connection)config.configDB();
        java.sql.PreparedStatement pst=conn.prepareStatement(sql);
        pst.execute();
        load_table();
        kosong();
        JOptionPane.showMessageDialog(null, "Penyimpanan Data Berhasil");
    } catch (Exception e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    kosong();
}
```

Button edit

```java
private void btnEditActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String kode = txtKode.getText();
    String nama = txtNama.getText();
    int harga =Integer.parseInt(txtHarga.getText());
    int stok = Integer.parseInt(txtStok.getText());
    try {
        String sql = "UPDATE daftar SET nama_beras = '"+nama+"', harga = '"+harga+"', "
        + "stok = '"+stok+"' WHERE kode_beras='"+kode+"'";
        java.sql.Connection conn=(Connection)config.configDB();
        java.sql.PreparedStatement pst=conn.prepareStatement(sql);
        pst.execute();
        load_table();
        kosong();
        JOptionPane.showMessageDialog(null, "Edit Data Berhasil");
    } catch (Exception e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    kosong();
}
```

Button hapus

```java
private void btnHapusActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String kode = txtKode.getText();
    try {
        String sql = "DELETE FROM daftar WHERE kode_beras='"+kode+"'";
        java.sql.Connection conn=(Connection)config.configDB();
        java.sql.PreparedStatement pst=conn.prepareStatement(sql);
        pst.execute();
        load_table();
        kosong();
        JOptionPane.showMessageDialog(null, "Hapus Data Berhasil");
    } catch (Exception e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    kosong();
}
```

Button cari

```java
private void btnCariActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String cari = txtCari.getText();
    DefaultTableModel model = new DefaultTableModel();
    model.addColumn("No");
    model.addColumn("Kode Beras");
    model.addColumn("Nama Beras");
    model.addColumn("Jenis Beras");
    model.addColumn("Stok");

    //menampilkan data database kedalam tabel
    try {
        int no=1;
        String sql = "SELECT * FROM daftar WHERE kode_beras ='"+cari+"' or nama_beras = '"+cari+"'";
        java.sql.Connection conn=(Connection)config.configDB();
        java.sql.Statement stm=conn.createStatement();
        java.sql.ResultSet res=stm.executeQuery(sql);
        while(res.next()){
            model.addRow(new Object[]{no++,res.getString(1),res.getString(2),
            res.getString(3),res.getString(4)});
        }
        tbBeras.setModel(model);
    } catch (Exception e) {
    }

    kosong();
}
```

Form Transaksi



TOKO BERAS BANUA

DAFTAR TRANSAKSI

Home

| Kode Transaksi | | Tambah |
| Kode Beras | B1003 ▼ | |
| Harga | 21000 | Edit |
| Kuantitas | | hapus |
| Total Bayar | 0 | |

| | | Cari |

| No | Kode Transaksi | Kode Beras | Kuantitas (kg) | Bayar |
|----|----------------|------------|----------------|-------|
| 1 | T1001 | B1001 | 2 | 24000 |
| 2 | T1002 | B1002 | 5 | 70000 |
| 3 | T1003 | B1003 | 2 | 42000 |

Form FormTransaksi
- Other Components
- [JFrame]
  - jLabel2 [JLabel]
  - jLabel3 [JLabel]
  - btnHome [JButton]
  - jPanel1 [JPanel]
    - txtKode [JTextField]
    - jLabel1 [JLabel]
    - jLabel4 [JLabel]
    - jLabel5 [JLabel]
    - jLabel6 [JLabel]
    - txtKuantitas [JTextField]
    - btnTambah [JButton]
    - btnCari [JButton]
    - btnEdit [JButton]
    - btnHapus [JButton]
    - comboKodeBeras [JComboBox]
    - jLabel7 [JLabel]
    - txtCari [JTextField]
    - labelHarga [JLabel]
    - labelBayar [JLabel]
  - jScrollPane1 [JScrollPane]
    - tbBeras [JTable]

Import:

```
import javax.swing.*;
import javax.swing.table.* ;
import java.sql.Connection;
```

Method load_table();

```java
private void load_table(){
        // membuat tampilan model tabel
        DefaultTableModel model = new DefaultTableModel();
        model.addColumn("No");
        model.addColumn("Kode Transaksi");
        model.addColumn("Kode Beras");
        model.addColumn("Kuantitas (kg)");
        model.addColumn("Bayar");

        //menampilkan data database kedalam tabel
        try {
            int no=1;
            String sql = "select * from transaksi";
            java.sql.Connection conn=(Connection)config.configDB();
            java.sql.Statement stm=conn.createStatement();
            java.sql.ResultSet res=stm.executeQuery(sql);

            while(res.next()){
                model.addRow(new Object[]{no++,res.getString(1),res.getString(2),res.getString(3),res.getString(4)});
            }
            tbBeras.setModel(model);
```

```java
            comboKodeBeras.removeAllItems();
            String sql2 = "select kode_beras from daftar";
            java.sql.Connection conn2=(Connection)config.configDB();
            java.sql.Statement stm2=conn2.createStatement();
            java.sql.ResultSet res2=stm2.executeQuery(sql2);
            while (res2.next()) {
                comboKodeBeras.addItem(res2.getString(1));
            }
        } catch (Exception e) {
        }
}
```

Method kosong()

```java
//mengosongkan form
    private void kosong(){
        labelBayar.setText("0");
        txtKode.setText(null);
        txtKuantitas.setText(null);
    }
```

Button home

```java
private void btnHomeActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new FormHome().show();
    dispose();
}
```

Combobox kode beras

```java
private void comboKodeBerasActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try {
        String kode_beras= comboKodeBeras.getSelectedItem().toString();
        String sql = "select harga from daftar where kode_beras = '"+kode_beras+"'";
        java.sql.Connection conn2=(Connection)config.configDB();
        java.sql.Statement stm=conn2.createStatement();
        java.sql.ResultSet res=stm.executeQuery(sql);
        while (res.next()) {
        labelHarga.setText(res.getString(1));
      }
    } catch (Exception e) {
    }
}
```

Textfield Kuantitas, events: key – keyReleased

```java
private void txtKuantitasKeyReleased(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
    // TODO add your handling code here:
    int harga = Integer.parseInt(labelHarga.getText());
    int kuantitas = Integer.parseInt(txtKuantitas.getText());
    int total = harga*kuantitas;
    labelBayar.setText(String.valueOf(total));
}
```

Button tambah:

```java
private void btnTambahActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    // TODO add your handling code here:
    String kode_transasi = txtKode.getText();
    String kode_beras = comboKodeBeras.getSelectedItem().toString();
    int harga = Integer.parseInt(labelHarga.getText());
    int kuantitas = Integer.parseInt(txtKuantitas.getText());
    int total = harga*kuantitas;

    try {
        String sql = "INSERT INTO transaksi VALUES ('"+kode_transasi+"','"+kode_beras+"','"+kuantitas+"','"+total+"')";
        java.sql.Connection conn=(Connection)config.configDB();
        java.sql.PreparedStatement pst=conn.prepareStatement(sql);
        pst.execute();
        load_table();
        kosong();
        JOptionPane.showMessageDialog(null, "Penyimpanan Data Berhasil");
    } catch (Exception e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    kosong();
}
```

Button edit

```java
private void btnEditActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String kode = txtKode.getText();
    String kode_beras = comboKodeBeras.getSelectedItem().toString();
    int kuantitas = Integer.parseInt(txtKuantitas.getText());
    int bayar = Integer.parseInt(labelBayar.getText());

    try {
        String sql = "UPDATE transaksi SET bayar = '"+bayar+"', kode_beras = '"
        +kode_beras+"', kuantitas = '"+kuantitas+"' WHERE kode_beras='"+kode+"'";
        java.sql.Connection conn=(Connection)config.configDB();
        java.sql.PreparedStatement pst=conn.prepareStatement(sql);
        pst.execute();
        load_table();
        kosong();
        JOptionPane.showMessageDialog(null, "Edit Data Berhasil");
    } catch (Exception e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    kosong();
}
```

Button hapus

```java
private void btnHapusActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String kode = txtKode.getText();
    try {
        String sql = "DELETE FROM transaksi WHERE kode_transaksi='"+kode+"'";
        java.sql.Connection conn=(Connection)config.configDB();
        java.sql.PreparedStatement pst=conn.prepareStatement(sql);
        pst.execute();
        load_table();
        kosong();
        JOptionPane.showMessageDialog(null, "Hapus Data Berhasil");
    } catch (Exception e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    kosong();
}
```

Button cari

```java
private void btnCariActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String cari = txtCari.getText();
    DefaultTableModel model = new DefaultTableModel();
    model.addColumn("No");
    model.addColumn("Kode Transaksi");
    model.addColumn("Kode Beras");
    model.addColumn("Kuantitas");
    model.addColumn("Bayar");

    //menampilkan data database kedalam tabel
    try {
        int no=1;
        String sql = "SELECT * FROM transaksi WHERE kode_transaksi ='"+cari+"' or kode_beras = '"+cari+"'";
        java.sql.Connection conn=(Connection)config.configDB();
        java.sql.Statement stm=conn.createStatement();
        java.sql.ResultSet res=stm.executeQuery(sql);
        while(res.next()){
            model.addRow(new Object[]{no++,res.getString(1),res.getString(2),res.getString(3),res.getString(4)});
        }
        tbBeras.setModel(model);
    } catch (Exception e) {
    }

    kosong();
}
```