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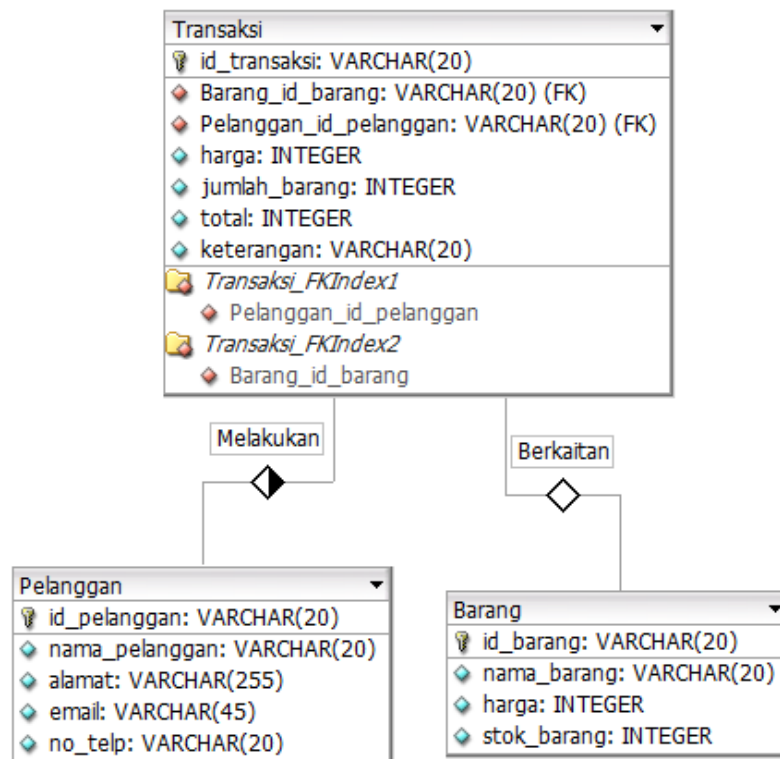
Kelas : A

Matkul : Praktikum Sistem Basis Data

MODUL 12

APLIKASI DENGAN DATABASE

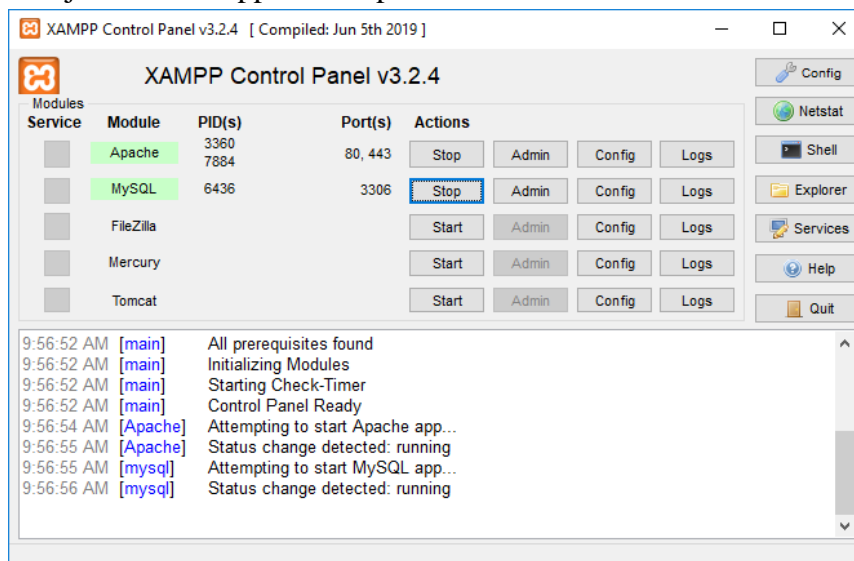
1. Membuat aplikasi berbasis java pada salah satu studi kasus yaitu toko online, dengan entitas yang ada antara lain :
 - Pelanggan
 - Barang
 - Transaksi
2. Penjelasan dari studi kasus
 - a. Entitas pelanggan, memiliki attribute:
 - Id pelanggan
 - Nama pelanggan
 - Alamat pelanggan
 - Email
 - Nomor telephone
 - b. Entitas barang, memiliki attribute:
 - Id barang
 - Nama barang
 - Harga
 - Stok
 - c. Entitas transaksi, memiliki attribute:
 - Id transaksi
 - Jumlah
 - Total
 - Keterangan
3. ER Diagram



Dari ER tersebut, hubungan antara pelanggan dengan transaksi adalah 1:n yaitu satu pelanggan bisa melakukan banyak transaksi dan hubungan antara barang dan transaksi adalah 1:1 yaitu satu jenis barang hanya satu transaksi begitu juga sebaliknya.

4. Membuat aplikasi menggunakan netbeans

a. Menjalankan xampp control panel



- b. Membuat database beserta tabel yang dipakai

Server: 127.0.0.1 > Database: toko_online

Structure SQL Search Query Export Import Operations Privileges Routines Ever


Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> barang	★ Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/> pelanggan	★ Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> transaksi	★ Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	32.0 KiB	-
3 tables	Sum	20	InnoDB	utf8mb4_general_ci	80.0 KiB	0 B

- c. Membuat aplikasi dengan netbeans




Transaksi

ID Transaksi

ID Pelanggan

ID Barang

Harga

Jumlah Barang

Total

Keterangan

--Pilih--

--Pilih--

Save

Cancel

Edit

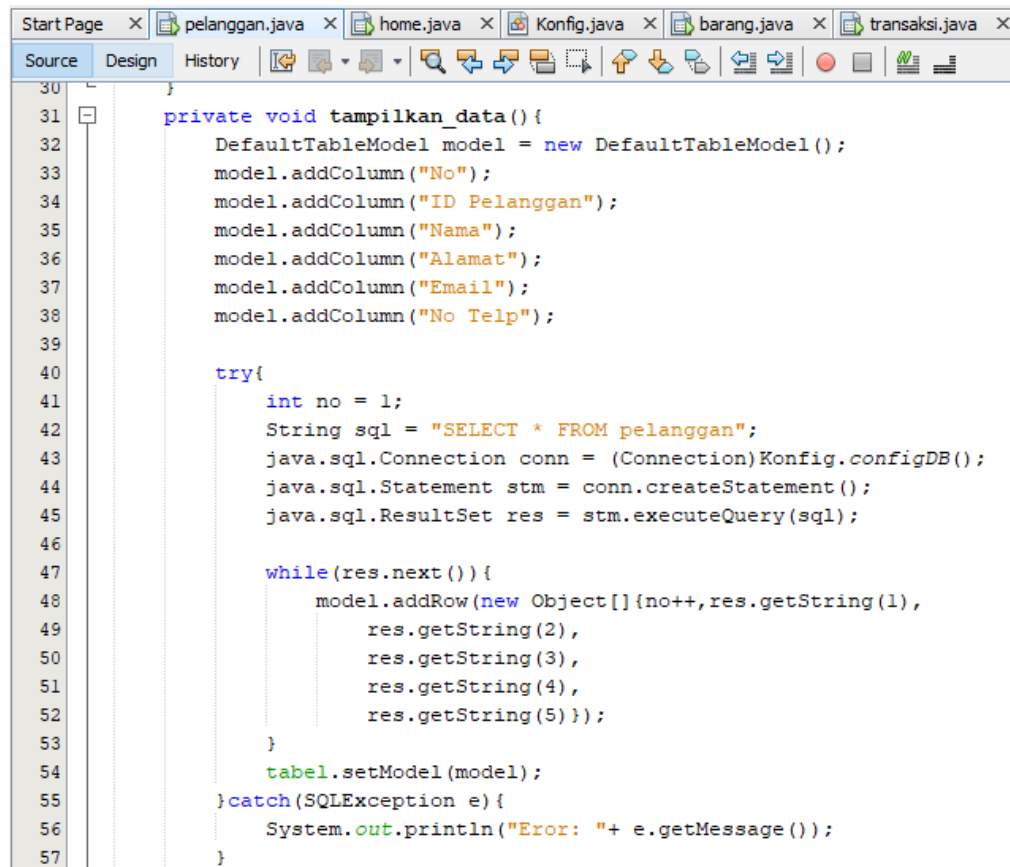
Delete

No	ID Tran...	ID Pela...	ID Bara...	Harga	Jumlah	Total	Ketera...
1	AK282	K034	B045	2500	10	25000	(-) 5000
2	AT012	N039	P019	2000	10	20000	Lunas
3	JX0338	J007	PW36	25000	3	75000	(-) 25000
4	PM1209	A001	BK012	3000	100	300000	Lunas
5	RF0363	I0173	T007	150000	1	150000	Lunas
6	TR056	G023	T075	5000	20	100000	Lunas

Back

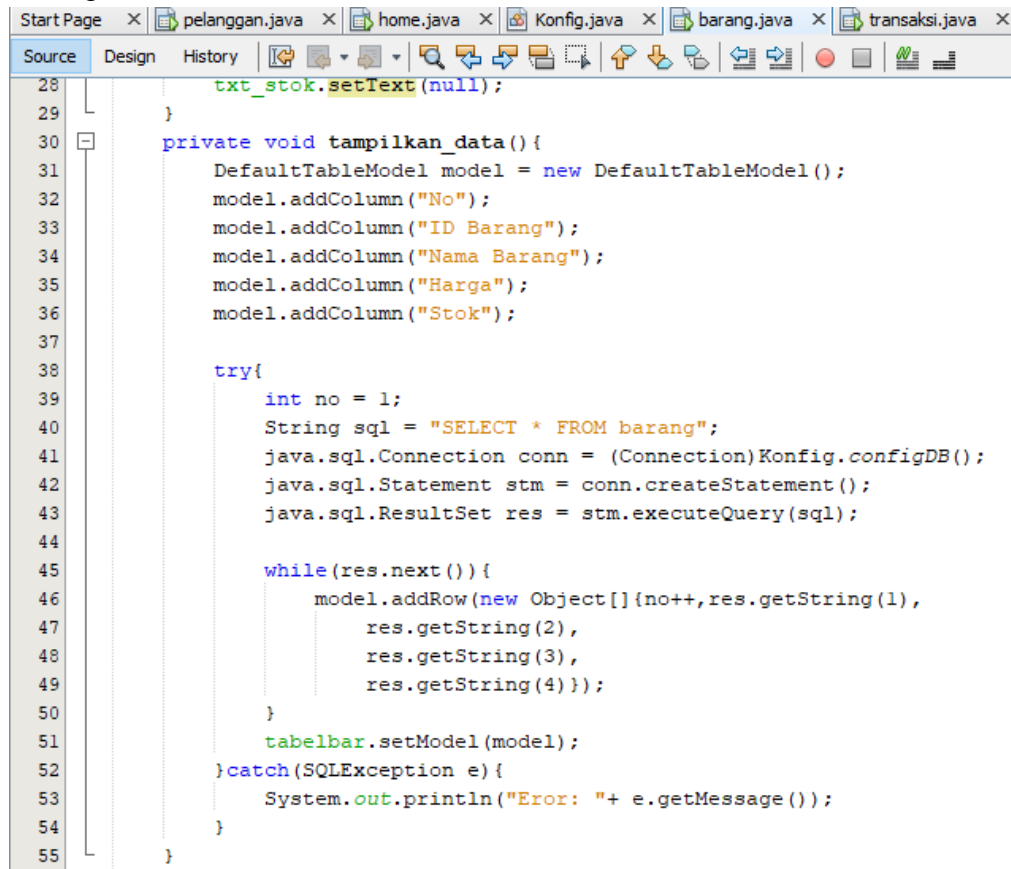
5. Menerapkan pada aplikasi yang dipilih, beberapa fungsi berikut untuk semua entitas:
 - Proses view (select)

- Pelanggan



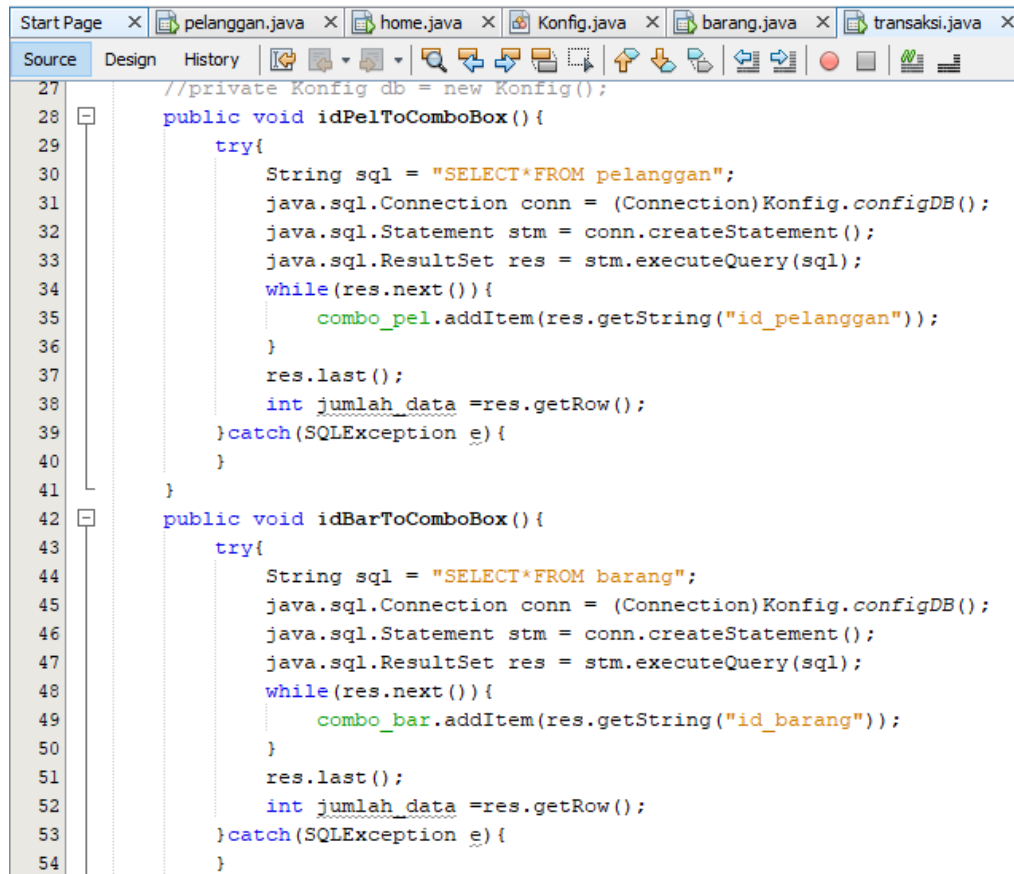
```
Start Page x pelanggan.java x home.java x Konfig.java x barang.java x transaksi.java x
Source Design History
30 }
31 private void tampilkan_data(){
32     DefaultTableModel model = new DefaultTableModel();
33     model.addColumn("No");
34     model.addColumn("ID Pelanggan");
35     model.addColumn("Nama");
36     model.addColumn("Alamat");
37     model.addColumn("Email");
38     model.addColumn("No Telp");
39
40     try{
41         int no = 1;
42         String sql = "SELECT * FROM pelanggan";
43         java.sql.Connection conn = (Connection)Konfig.configDB();
44         java.sql.Statement stm = conn.createStatement();
45         java.sql.ResultSet res = stm.executeQuery(sql);
46
47         while(res.next()){
48             model.addRow(new Object[]{no++,res.getString(1),
49                 res.getString(2),
50                 res.getString(3),
51                 res.getString(4),
52                 res.getString(5)});
53         }
54         tabel.setModel(model);
55     }catch(SQLException e){
56         System.out.println("Error: " + e.getMessage());
57     }
```

○ Barang



```
28      txt_stok.setText(null);
29  }
30  private void tampilkan_data(){
31      DefaultTableModel model = new DefaultTableModel();
32      model.addColumn("No");
33      model.addColumn("ID Barang");
34      model.addColumn("Nama Barang");
35      model.addColumn("Harga");
36      model.addColumn("Stok");
37
38      try{
39          int no = 1;
40          String sql = "SELECT * FROM barang";
41          java.sql.Connection conn = (Connection)Konfig.configDB();
42          java.sql.Statement stm = conn.createStatement();
43          java.sql.ResultSet res = stm.executeQuery(sql);
44
45          while(res.next()){
46              model.addRow(new Object[]{no++,res.getString(1),
47                  res.getString(2),
48                  res.getString(3),
49                  res.getString(4)});
50          }
51          tabelbar.setModel(model);
52      }catch(SQLException e){
53          System.out.println("Error: " + e.getMessage());
54      }
55  }
```

- Transaksi



```
Start Page x pelanggan.java x home.java x Konfig.java x barang.java x transaksi.java x
Source Design History
27 //private Konfig db = new Konfig();
28 public void idPelToComboBox() {
29     try{
30         String sql = "SELECT*FROM pelanggan";
31         java.sql.Connection conn = (Connection)Konfig.configDB();
32         java.sql.Statement stm = conn.createStatement();
33         java.sql.ResultSet res = stm.executeQuery(sql);
34         while(res.next()){
35             combo_pel.addItem(res.getString("id_pelanggan"));
36         }
37         res.last();
38         int jumlah_data =res.getRow();
39     }catch(SQLException e){
40     }
41 }
42 public void idBarToComboBox() {
43     try{
44         String sql = "SELECT*FROM barang";
45         java.sql.Connection conn = (Connection)Konfig.configDB();
46         java.sql.Statement stm = conn.createStatement();
47         java.sql.ResultSet res = stm.executeQuery(sql);
48         while(res.next()){
49             combo_bar.addItem(res.getString("id_barang"));
50         }
51         res.last();
52         int jumlah_data =res.getRow();
53     }catch(SQLException e){
54     }
```

The image shows a Java Swing application window titled "Transaksi" and its source code in an IDE. The application window has a form with the following fields:

- ID Transaksi:
- ID Pelanggan:
- ID Barang:
- Harga:
- Jumlah Barang:
- Total:
- Keterangan:

Below the form is a table with 7 columns: No, ID Tran..., ID Pela..., ID B..., and three unlabeled columns. The table contains 6 rows of data:

No	ID Tran...	ID Pela...	ID B...				Ketera...
1	AK282	K034	B045	2500	10	25000	(-) 5000
2	AT012	N039	P019	2000	10	20000	Lunas
3	JX0338	J007	PW36	25000	3	75000	(-) 25000
4	PM1209	A001	BK012	3000	100	300000	Lunas
5	RF0363	I0173	T007	150000	1	150000	Lunas
6	TR056	G023	T075	5000	20	100000	Lunas

Below the table are "Save" and "Can" buttons. At the bottom right is a "Back" button.

The IDE shows the source code for the application, with the following code visible:

```

66 private void tampilkan_data(){
67     DefaultTableModel model = new DefaultTableModel();
68     model.addColumn("No");
69     model.addColumn("ID Transaksi");
70     model.addColumn("ID Pelanggan");
71     model.addColumn("ID Barang");
72     model.addColumn("Harga");
73     model.addColumn("Jumlah");
74     model.addColumn("Total");
75     model.addColumn("Keterangan");
76     try{
77         int no = 1;
78         String sql = "SELECT * FROM transaksi";
79         java.sql.Connection conn = (Connection)Konfig.configDB();
80         java.sql.Statement stm = conn.createStatement();
81         java.sql.ResultSet res = stm.executeQuery(sql);
82         while(res.next()){
83             model.addRow(new Object[]{no++, res.getString(1),
84                                     res.getString(2),
85                                     res.getString(3),
86                                     res.getString(4),
87                                     res.getString(5),
88                                     res.getString(6),
89                                     res.getString(7)});
90         }
91         tabeltrans.setModel(model);
92     }catch(SQLException e){
93         System.out.println("Error: " + e.getMessage());

```

- Insert (memasukkan data)

- Pelanggan

```
private void bt_saveActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql = "INSERT INTO pelanggan VALUES ('"
            +txt_id.getText()+"', '"
            +txt_nama.getText()+"', '"
            +txt_alamat.getText()+"', '"
            +txt_email.getText()+"', '"
            +txt_no.getText()+"')";

        java.sql.Connection Conn = (Connection)Konfig.configDB();
        java.sql.PreparedStatement pstmt = Conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null,"Proses simpan data berhasil");
        tampilkan_data();
        kosongkan_form();
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
}
```

Data Pelanggan

ID:

Nama:

Alamat:

Email:

Nomor Telephone:

Save Cancel Edit Delete

No	ID Pelangg...	Nama	Alamat	Email	No Telp
1	A001	Intan	Jl.Beo 24 ...	Intan23@g...	0877123217
2	A0032	Terra	Jl.Permata ...	Terra@gm...	08121415...
3	G023	Syaifunnisa	Jl.Permata 2...	syaifun@g...	08123187...
4	I0173	Sintya	Jl.Gang 12...	sintyaa@g...	08234664...
5	J007	Mukhlis	Jl.Sanan 4...	mukhlizz@...	0853736321
6	K034	Irkhas	Jl.Ahmad Y...	irkhasR@g...	08924252...

Back

Data Pelanggan

ID: A000

Nama: Ismi

Alamat: Jl.indah raya 14 Sukoharjo


Email: ismidz@gmail.com

Nomor Telephone: 0823252625

Save Cancel Edit Delete

No	ID Pelangg...	Nama
1	A001	Intan
2	A0032	Terra
3	G023	Syaifunnis
4	I0173	Sintya
5	J007	Mukhlis
6	K034	Irkhas

Message

 Proses simpan data berhasil

OK

Data Pelanggan

ID:

Nama:

Alamat:

Email:

Nomor Telephone:

Save Cancel Edit Delete

No	ID Pelangg...	Nama	Alamat	Email	No Telp
1	A000	Ismi	Jl.indah ray...	ismidz@g...	0823252625
2	A001	Intan	Jl.Beo 24 ...	Intan23@g...	0877123217
3	A0032	Terra	Jl.Permata ...	Terra@gm...	08121415...
4	G023	Syaifunnisa	Jl.Permai 2...	syaifun@g...	08123187...
5	I0173	Sintya	Jl.Gang 12...	sintyaa@g...	08234664...
6	J007	Mukhlis	Jl.Sanan 4...	mukhlizz@...	0853736321

Back

- Barang

```
private void bt_saveActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql = "INSERT INTO barang VALUES ('"
            +txt_idbar.getText()+"', '"
            +txt_namabar.getText()+"', '"
            +txt_harga.getText()+"', '"
            +txt_stok.getText()+"'";
        java.sql.Connection Conn = (Connection)Konfig.configDB();
        java.sql.PreparedStatement pstmt = Conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null,"Proses simpan data berhasil");
        tampilkan_data();
        kosongkan_form();
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
}
```

No	ID Barang	Nama Barang	Harga	Stok
1	B045	Bolpoin	2500	450
2	B057	Buku Gambar	5000	250
3	BK012	Buku Tulis	3000	300
4	P019	Penggaris	2000	150
5	PW36	Pencil Warna	25000	50
6	T007	Tas	150000	28


Data Barang

ID Barang: PG03
Nama Barang: Penghapus
Harga: 1000
Stok: 200

Save Cancel Edit Delete

No	ID Barang	Nama
1	B045	Bolpoi
2	B057	Buku C
3	BK012	Buku T
4	P019	Pengg
5	PW36	Pencil
6	T007	Tas

Message

 Proses simpan data berhasil

OK

Data Barang

ID Barang:
Nama Barang:
Harga:
Stok:

Save Cancel Edit Delete

No	ID Barang	Nama Barang	Harga	Stok
2	B057	Buku Gambar	5000	250
3	BK012	Buku Tulis	3000	300
4	P019	Penggaris	2000	150
5	PG03	Penghapus	1000	200
6	PW36	Pencil Warna	25000	50
7	T007	Tas	150000	28

Back

- Transaksi

```
private void bt_saveActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql = "INSERT INTO transaksi VALUES ('"
            +txt_idtrans.getText()+"', '"
            +combo_pel.getSelectedItem()+"', '"
            +combo_bar.getSelectedItem()+"', '"
            +txt_harga.getText()+"', '"
            +txt_jumlah.getText()+"', '"
            +txt_total.getText()+"', '"
            +txt_ket.getText()+"'";
        java.sql.Connection Conn = (Connection)Konfig.configDB();
        java.sql.PreparedStatement pstmt = Conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null,"Proses simpan data berhasil");
        tampilkan_data();
        kosongkan_form();
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
}
```

Transaksi

ID Transaksi: SN024

ID Pelanggan: A000

ID Barang: PG03

Harga: 1000

Jumlah Barang: 10

Total: 10000

Keterangan: Lunas

Save Cancel Edit Delete

No	ID Tran...	ID Pela...	ID Bara...	Harga	Jumlah	Total	Ketera...
1	AK282	K034	B045	2500	10	25000	(-) 5000
2	AT012	N039	P019	2000	10	20000	Lunas
3	JX0338	J007	PW36	25000	3	75000	(-) 25000
4	PM1209	A001	BK012	3000	100	300000	Lunas
5	RF0363	I0173	T007	150000	1	150000	Lunas
6	TR056	G023	T075	5000	20	100000	Lunas

Back

Transaksi

ID Transaksi

SN024

ID Pelanggan

A000

ID Barang

PG03

Harga

1000

Jumlah Barang

10

Total

10000

Keterangan

Lunas

Save

Cancel

Edit

Delete

No	ID Tran...	ID Pela...	ID B...
1	AK282	K034	B044
2	AT012	N039	P019
3	JX0338	J007	PW36
4	PM1209	A001	BK012
5	RF0363	I0173	T007
6	TR056	G023	T075

Message

i

Proses simpan data berhasil

OK

Transaksi

ID Transaksi

ID Pelanggan

--Pilih--

ID Barang

--Pilih--

Harga

Jumlah Barang

Total

Keterangan

Save

Cancel

Edit

Delete

No	ID Tran...	ID Pela...	ID Bar...	Harga	Jumlah	Total	Ketera...
1	AK282	K034	B044	2000	10	20000	(-) 250...
2	AT012	N039	P019	2000	10	20000	Lunas
3	JX0338	J007	PW36	25000	3	75000	Lunas
4	PM1209	A001	BK012	3000	100	300000	Lunas
5	RF0363	I0173	T007	150000	1	150000	Lunas
6	SN024	A000	PG03	1000	10	10000	Lunas
7	TR056	G023	T075	5000	20	100000	Lunas

Back

- Update (mengubah data)

- Pelanggan

```
private void bt_editActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql = "UPDATE pelanggan set id_pelanggan='"+txt_id.getText()+
            +"',nama_pelanggan='"+txt_nama.getText()+
            +"',alamat='"+txt_alamat.getText()+
            +"',email='"+txt_email.getText()+
            +"',no_telp='"+txt_no.getText()+
            +"' WHERE id_pelanggan='"+txt_id.getText()+"'";
        java.sql.Connection Conn = (Connection)Konfig.configDB();
        java.sql.PreparedStatement pstmt = Conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null,"Edit data berhasil");
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    tampilkan_data();
    kosongkan_form();
}
}
```

Data Pelanggan

ID: A000

Nama: Ismi

Alamat: Jl.indah raya 14 Sukoharjo

Email: ismidz@gmail.com

Nomor Telephone: 088000000

Buttons: Save, Cancel, Edit, Delete

No	ID Pelangg...	Nama	Alamat	Email	No Telp
1	A000	Ismi	Jl.indah ray...	ismidz@g...	0823252625
2	A001	Intan	Jl.Beo 24 ...	Intan23@g...	0877123217
3	A0032	Terra	Jl.Permata ...	Terra@gm...	08121415...
4	G023	Syaifunnisa	Jl.Permai 2...	syaifun@g...	08123187...
5	I0173	Sintya	Jl.Gang 12...	sintyaa@g...	08234664...
6	J007	Mukhlis	Jl.Sanan 4...	mukhlizz@...	0853736321

Back

- Barang

- Barang


```

private void bt_editActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql = "UPDATE barang set id_barang='"+txt_idbar.getText()
            +"',nama_barang='"+txt_namabar.getText()
            +"',harga='"+txt_harga.getText()
            +"',stok='"+txt_stok.getText()
            +"' WHERE id_barang='"+txt_idbar.getText()+"'";
        java.sql.Connection Conn = (Connection)Konfig.configDB();
        java.sql.PreparedStatement pstm = Conn.prepareStatement(sql);
        pstm.execute();
        JOptionPane.showMessageDialog(null,"Edit data berhasil");
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    tampilkan_data();
    kosongkan_form();
}

```

Data Barang

ID Barang: PG03

Nama Barang: Penghapus

Harga: 1000

Stok: 255

Buttons: Save, Cancel, Edit, Delete

No	ID Barang	Nama Barang	Harga	Stok
1	B045	Bolpoin	2500	450
2	B057	Buku Gambar	5000	250
3	BK012	Buku Tulis	3000	300
4	P019	Penggaris	2000	150
5	PG03	Penghapus	1000	200
6	PW36	Pencil Warna	25000	50

Back


Data Barang

ID Barang: PG03
Nama Barang: Penghapus
Harga: 1000
Stok: 255

Save Cancel Edit Delete

No	ID Barang	Nama
1	B045	Bolpoin
2	B057	Buku Gambar
3	BK012	Buku Tulis
4	P019	Penggaris
5	PG03	Penghapus
6	PW36	Pencil Warna

Message

 Edit data berhasil

OK

Data Barang

ID Barang:
Nama Barang:
Harga:
Stok:

Save Cancel Edit Delete

No	ID Barang	Nama Barang	Harga	Stok
1	B045	Bolpoin	2500	450
2	B057	Buku Gambar	5000	250
3	BK012	Buku Tulis	3000	300
4	P019	Penggaris	2000	150
5	PG03	Penghapus	1000	255
6	PW36	Pencil Warna	25000	50

Back

- Transaksi

```
private void bt_editActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql = "UPDATE transaksi set id_transaksi='"+txt_idtrans.getText()+
            "','id_pelanggan='"+combo_pel.getSelectedIndex()+
            "','id_barang='"+combo_bar.getSelectedIndex()+
            "','harga='"+txt_harga.getText()+
            "','jumlah='"+txt_jumlah.getText()+
            "','total='"+txt_total.getText()+
            "','keterangan='"+txt_ket.getText()+
            "' WHERE id_transaksi='"+txt_idtrans.getText()+"'";
        java.sql.Connection Conn = (Connection)Konfig.configDB();
        java.sql.PreparedStatement pstmt = Conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null,"Edit data berhasil");
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    tampilkan_data();
    kosongkan_form();
}
}
```

No	ID Tran...	ID Pela...	ID Bar...	Harga	Jumlah	Total	Katera...
1	AK282	K034	B045	2500	10	25000	(-) 5000
2	AT012	N039	P019	2000	10	20000	Lunas
3	JX0338	J007	PW36	25000	3	75000	(-) 250...
4	PM1209	A001	BK012	3000	100	300000	Lunas
5	RF0363	I0173	T007	150000	1	150000	Lunas
6	SN024	A000	PG03	1000	10	10000	Lunas
7	TP050	G000	T075	5000	20	100000	Lunas

Transaksi

ID Transaksi

AK282

ID Pelanggan

K034

ID Barang

B045

Harga

2500

Jumlah Barang

10

Total

25000

Keterangan

Lunas

Save

Cancel

Edit

Delete

No	ID Tran...	ID Pela...	ID B...	Harga	Jumlah	Total	Ketera...
1	AK282	K034	B045	2500	10	25000	Lunas
2	AT012	N039	P019	2000	10	20000	Lunas
3	JX0338	J007	PW36	25000	3	75000	(-) 250...
4	PM1209	A001	BK012	3000	100	300000	Lunas
5	RF0363	I0173	T007	150000	1	150000	Lunas
6	SN024	A000	PG03	1000	10	10000	Lunas

Message

i

Edit data berhasil

OK

Back

Transaksi

ID Transaksi

ID Pelanggan

--Pilih--

ID Barang

--Pilih--

Harga

Jumlah Barang

Total

Keterangan

Save

Cancel

Edit

Delete

No	ID Tran...	ID Pela...	ID Bar...	Harga	Jumlah	Total	Ketera...
1	AK282	K034	B045	2500	10	25000	Lunas
2	AT012	N039	P019	2000	10	20000	Lunas
3	JX0338	J007	PW36	25000	3	75000	(-) 250...
4	PM1209	A001	BK012	3000	100	300000	Lunas
5	RF0363	I0173	T007	150000	1	150000	Lunas
6	SN024	A000	PG03	1000	10	10000	Lunas

Back

- Delete (menghapus data)

- Pelanggan

```
private void bt_deleteActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql = "DELETE FROM pelanggan WHERE id_pelanggan='"+txt_id.getText()+"'";
        java.sql.Connection conn =(Connection) Konfig.configDB();
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null, "Hapus data berhasil");
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    tampilkan_data();
    kosongkan_form();
}
```

Data Pelanggan

ID:

Nama:

Alamat:

Email:

Nomor Telephone:

Save Cancel Edit Delete

No	ID Pelangg...	Nama	Alamat	Email	No Telp
1	A000	Ismi	Jl.indah ray...	ismidz@g...	088000000
2	A001	Intan	Jl.Beo 24 ...	Intan23@g...	0877123217
3	A0032	Terra	Jl.Permata ...	Terra@gm...	08121415...
4	G023	Syaifunnisa	Jl.Permal 2...	syaifun@g...	08123187...
5	I0173	Sintya	Jl.Gang 12...	sintyaa@g...	08234664...
6	J007	Mukhlis	Jl.Sanan 4...	mukhlizz@...	0853736321

Back

Data Pelanggan

ID: A000

Nama: Ismi

Alamat: Jl.indah raya 14 Sukoharjo


Email: ismidz@gmail.com

Nomor Telephone: 088000000

Save Cancel Edit Delete

No	ID Pelangg...	Nama
1	A000	Ismi
2	A001	Intan
3	A0032	Terra
4	G023	Syaifunnisa
5	I0173	Sintya
6	J007	Mukhlis

Message

 Hapus data berhasil

OK

Data Pelanggan

ID:

Nama:

Alamat:

Email:

Nomor Telephone:

Save Cancel Edit Delete

No	ID Pelangg...	Nama	Alamat	Email	No Telp
1	A001	Intan	Jl.Beo 24 ...	Intan23@g...	0877123217
2	A0032	Terra	Jl.Permata ...	Terra@gm...	08121415...
3	G023	Syaifunnisa	Jl.Permai 2...	syaifun@g...	08123187...
4	I0173	Sintya	Jl.Gang 12...	sintyaa@g...	08234664...
5	J007	Mukhlis	Jl.Sanan 4...	mukhlizz@...	0853736321
6	K034	Irkhas	Jl.Ahmad Y...	irkhasR@g...	08924252...

Back

- Barang

```
private void bt_deleteActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "DELETE FROM barang WHERE id_barang='"+txt_idbar.getText()+"'";  
        java.sql.Connection conn =(Connection) Konfig.configDB();  
        java.sql.PreparedStatement pstm = conn.prepareStatement(sql);  
        pstm.execute();  
        JOptionPane.showMessageDialog(null, "Hapus data berhasil");  
    }catch(HeadlessException | SQLException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    tampilkan_data();  
    kosongkan_form();  
}
```

Data Barang

ID Barang: B045
Nama Barang: Bolpoin
Harga: 2500
Stok: 450

Save Cancel Edit Delete

No	ID Barang	Nama Barang	Harga	Stok
1	B045	Bolpoin	2500	450
2	B057	Buku Gambar	5000	250
3	BK012	Buku Tulis	3000	300
4	P019	Penggaris	2000	150
5	PG03	Penghapus	1000	255
6	PW36	Pencil Warna	25000	50

Back

Data Barang

ID Barang: B045
 Nama Barang: Bolpoin
 Harga: 2500
 Stok: 450

Save Cancel Edit Delete

No	ID Barang	Nama
1	B045	Bolpoin
2	B057	Buku
3	BK012	Buku
4	P019	Peng
5	PG03	Peng
6	PW36	Penc

Message: Hapus data berhasil

OK

Data Barang

ID Barang:
 Nama Barang:
 Harga:
 Stok:

Save Cancel Edit Delete

No	ID Barang	Nama Barang	Harga	Stok
1	B057	Buku Gambar	5000	250
2	BK012	Buku Tulis	3000	300
3	P019	Penggaris	2000	150
4	PG03	Penghapus	1000	255
5	PW36	Pencil Warna	25000	50
6	T007	Tas	150000	28

Back

○ Transaksi

```
private void bt_deleteActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql = "DELETE FROM transaksi WHERE id_transaksi='"+txt_idtrans.getText()+"'";
        java.sql.Connection conn = (Connection) Konfig.configDB();
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null, "Hapus data berhasil");
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    tampilkan_data();
    kosongkan_form();
}
```


Transaksi

ID Transaksi: JX0338

ID Pelanggan: J007

ID Barang: PW36

Harga: 25000

Jumlah Barang: 3

Total: 75000

Keterangan: (-) 25000

Save Cancel Edit Delete

No	ID Tran...	ID Pela...	ID Bar...	Harga	Jumlah	Total	Ketera...
1	AK282	K034	B045	2500	10	25000	Lunas
2	AT012	N039	P019	2000	10	20000	Lunas
3	JX0338	J007	PW36	25000	3	75000	(-) 250...
4	PM1209	A001	BK012	3000	100	300000	Lunas
5	RF0363	I0173	T007	150000	1	150000	Lunas
6	SN024	A000	PG03	1000	10	10000	Lunas

Back

Transaksi

ID Transaksi: JX0338

ID Pelanggan: J007

ID Barang: PW36

Harga: 25000

Jumlah Barang: 3

Total: 75000


Keterangan: (-) 25000

Save Cancel Edit Delete

No	ID Tran...	ID Pela...	ID B...
1	AK282	K034	B045
2	AT012	N039	P019
3	JX0338	J007	PW36
4	PM1209	A001	BK012
5	RF0363	I0173	T007
6	SN024	A000	PG03

Back

Message

 Hapus data berhasil

OK

Transaksi

ID Transaksi

ID Pelanggan

--Pilih--
▼

ID Barang

--Pilih--
▼

Harga

Jumlah Barang

Total

Keterangan

Save

Cancel

Edit

Delete

No	ID Tran...	ID Pela...	ID Bara...	Harga	Jumlah	Total	Ketera...
1	AK282	K034	B045	2500	10	25000	Lunas
2	AT012	N039	P019	2000	10	20000	Lunas
3	PM1209	A001	BK012	3000	100	300000	Lunas
4	RF0363	I0173	T007	150000	1	150000	Lunas
5	SN024	A000	PG03	1000	10	10000	Lunas
6	TR056	G023	T075	5000	20	100000	Lunas

Back