

Series 3: Making Database Software is Easy with Java.....

Simple Chasir Database Ver 1.0



Volume 1.0

by

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Introduction

- This volume 1, will bring you to the world of java programming to create a software which connected to a database easily
- It's help you to know how to add, print , and calculate data with 2 database system
- help you to learn how to make a database application POST or chasir in java easily
- And also give you an idea to design java swing components to any software that you want to create !

The Snapshot

Insert
No transaction

Insert
Code barang and
Display it data into
Jtable below

JTable
Show your database

From barang database

From transaksi database

Chasir

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Nomor Transaksi : 10

Kode Barang Jumlah Harga Satuan

123 2000

OK CANCEL

Kode Barang	Nama Barang	Harga Satuan
123	shampo	2000

Nama Barang	Harga Satuan	Jumlah	Total Harga
shampo	2000	4	8000
sabun	2000	4	8000

Total : Rp. 16.000

Bayar : 20000 20.000

Kembali : -4.000

PRINT

insert
How many item
You buy?
Then press Enter
You can get value

Calculate
Sub Total of items

Calculate
Total of
transaction

Calculate
Total - Cash

Class and Method

Class

Product

Method

ambilData()
simpanData()
hapusTabel()
tampilData()
etc

Print Data

Nama Barang	Harga Satuan	Jumlah	Total Harga
shampo	2000	4	8000
sabun	2000	4	8000

Total : Rp. 16.000

Bayar : **20.000**

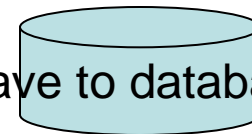
Kembali : **-4.000**

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Jl. Yos Sudarso Pekanbaru - Riau
Product Kasir
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Nama Barang	Harga Satuan	Jumlah	Total Harga
shampo	2000	4	8000
sabun	2000	4	8000
Total :			16.000
Bayar :			20000
Kembali :			-4.000

Terima Kasih, Kembali lagi :)

Save to database



By Click Button PRINT you can print and save your transaction data

set a connection

```
class ConnectData
{
    private Connection connection = null;
    private Statement statement = null;
    private ResultSet resultSet = null;
    private PreparedStatement prepareSet = null;
    private String driver = "org.hsqldb.jdbcDriver";
    private String URL = "jdbc:hsqldb:file:test";

    ConnectData()
    {
        try {
            Class.forName(driver);
            connection = DriverManager.getConnection(URL);
        }
        catch (ClassNotFoundException SQLLe) {
            JOptionPane.showMessageDialog(null, SQLLe.toString(), "Error", JOptionPane.ERROR_MESSAGE);
        }
        catch (Exception ex) {
            JOptionPane.showMessageDialog(null, ex.toString(), "Error", JOptionPane.ERROR_MESSAGE);
        }
    }
}
```

save data

```
public void simpanData() {
    int jum_myHargatxt = Integer.parseInt(myItemtxt.getText()) * Integer.parseInt(myHargatxt.getText());
    try {
        String sql_1 = "Insert Into transaksi ";
        String sql_2 =
            "(Tgl, Waktu, KodeBrg, NamaBrg, HargaBrg, Satuan, Jumlah, Status, NoTransaksi) ";
        String sql_3 = "values( ? , ? , ? , ? , ? , ? , ? , ? , ? )";
        String sql = sql_1 + sql_2 + sql_3;
        PreparedStatement stat = con.prepareStatement(sql);
        try {
            stat.setString(1, myTanggallbl.getText());
            stat.setString(2, myWaktublbl.getText());
            stat.setString(3, myKodetxt.getText());
            stat.setString(4, myNamatxt.getText());
            stat.setString(5, myHargatxt.getText());
            stat.setString(6, myItemtxt.getText());
            stat.setString(7, Integer.toString(jum_myHargatxt));
            stat.setString(8, "Belum Bayar");
            stat.setString(9, myNoTransaksi.getText());
            stat.executeUpdate();
        }
        catch (Exception ie) {
            JOptionPane.showMessageDialog(null, "Can not saved\n please try again");
        }
    }
    catch (Exception e) {
    }
}
```

Query

```
public void ambilNoTran() {
    try {
        String sql = "Select Max(NoTransaksi) as no from transaksi";
        Statement stat = con.createStatement();
        ResultSet set = stat.executeQuery(sql);
        while (set.next()) {
            String nomor = set.getString("no");
            int no_t = Integer.parseInt(nomor) + 1;
            myNoTransaksi.setText(Integer.toString(no_t));
        }
    }
    catch (Exception e) {
    }
}
```

```
public void actionOK() {
    String tota = null;
    simpanData();
    hapusmyTable();
    hapusmyBrgTable();
    myKodetxt.setText("");
    myItemtxt.setText("");
    myHargatxt.setText("");
    myNamatxt.setText("");
    try {
        String sql = "Select sum(Jumlah) as tot from transaksi where status =
'Belum Bayar'";
        PreparedStatement sta = con.prepareStatement(sql);
        ResultSet set = sta.executeQuery();
        while (set.next()) {
            tota = set.getString("tot");
            tota = tota.substring(0, tota.length());
        }
    }
    catch (Exception ie) {
        System.out.println(ie);
    }
    double money = Double.parseDouble(tota);
    String format =
    NumberFormat.getNumberInstance(Locale.ENGLISH).format(
        money);
    StringTokenizer token = new StringTokenizer(format, ".");
    format = token.nextToken();
    format = format.replace(',', '.');
    myTotalLbl.setText(format);
    tampilDataKemyTable();
    myButtonOK.setEnabled(false);
    myKodetxt.requestFocus();
}
```

Key Adapter

```
• public void myKodetxt_keyPressed(KeyEvent e) {
•     int ascii = e.getKeyCode();
•     if (ascii == 10) {
•         if (myKodetxt.getText().equalsIgnoreCase("")) {
•             JOptionPane.showMessageDialog(null, "Please insert item code !", "ERROR", JOptionPane.OK_OPTION);
•         }
•         else {
•             tampilData();
•             String kBrng = myKodetxt.getText();
•             String sql1 = "Select * from Barang where KodeBrng = " + kBrng +"";
•             String myHargatxt_b = "null";
•             String myNamatxt_b = null;
•             try {
•                 PreparedStatement stat = con.prepareStatement(sql1);
•                 ResultSet set = stat.executeQuery();
•                 while (set.next()) {
•                     myHargatxt_b = set.getString("HargaBrng");
•                     myNamatxt_b = set.getString("NamaBrng");
•                     myHargatxt.setText(myHargatxt_b);
•                     myNamatxt.setText(myNamatxt_b);
•                 }
•                 if (myHargatxt_b.equalsIgnoreCase("null")) {
•                     JOptionPane.showMessageDialog(null,"Not Found !");
•                     myKodetxt.requestFocus();
•                     myButtonOK.setEnabled(false);
•                 }
•                 else {
•                     myItemtxt.requestFocus();
•                     myButtonOK.setEnabled(true);
•                 }
•                 set.close();
•             }
•             catch (Exception ie) {
•             }
•         }
•     }
•     else if (ascii == 27) {
•         myBayartxt.requestFocus();
•     }
• }
```

Source Code

- The completed source code is inside the directory UKM in file javageo group or
- <http://www.javageo.com>
- You can download the source code...
Play ,Modify and be succesfull with it...!
Good luck !!

See you on next volume and series !!