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# LAMPIRAN

## A. Biaya Proyek

### I. Biaya Konversi Sistem

#### a. Sistem Lama

1) Kertas 1 Rim * Rp. 30.000	- Rp. 30.000
2) Pena per box 2 * Rp. 15.000	- Rp. 30.000
3) Tipex 2 * Rp. 2.500	- Rp. 5.000
4) Mistar 2 set * Rp. 2.500	- Rp. 5.000
<b>Total</b>	<b>- Rp. 70.000</b>

#### b. Biaya Konversi Sistem (Sistem Baru)

1) Beli Tinta Refill 1 * Rp. 20.000	- Rp. 20.000
2) Beli kertas 1 Rim * Rp. 30.000	- Rp. 30.000
<b>Total</b>	<b>- Rp. 50.000</b>

### 2. Biaya Pelatihan Personil

Biaya pelatihan personil selama 5 hari

Karyawan yang dilatih 1 orang

1) Fotocopy modul	1 * Rp. 25.000	- Rp. 25.000
2) Bloknote	2 * Rp. 6.000	- Rp. 12.000
3) Alat tulis	2 * Rp. 5.000	- Rp. 10.000

Konsumsi 2 orang (1 orang karyawan + 1 orang pelatih)

4) Sekali makan	- Rp. 12.000 * 2 - Rp. 24.000 * 5 hari	- Rp. 120.000
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**Total** = **Rp. 167.000**

## B. Biaya Operasi Dan Perawatan

### a. Biaya Listrik (*Overhead*)

1) 1 unit komputer - 350 Watt

2) 1 unit monitor - 200 Watt

3) 1 printer - 50 Watt

Total - 600 Watt

Biaya per KVA - Rp. 495

Biaya beban per KVA - Rp. 20.000

Jam nyala -  $\frac{x \text{ kWh}}{\text{Daya Tersambung (kVA)}}$

5 -  $\frac{x \text{ kWh}}{0.6 \text{ kVA}}$

Besar pemakaian kWh per hari -  $5 \times 0.6$  - 3 Kwh

Besar pemakaian kWh per bulan -  $3 \times 26 \text{ hari}$  - 78 Kwh

Biaya pemakaian kWh per bulan -  $78 \text{ kWh} \times \text{Rp. } 495$

- Rp. 38.610

Biaya beban per bulan -  $0.6 \text{ kVA} \times \text{Rp. } 20.000$

- Rp. 12.000

Biaya listrik per bulan -  $\text{Rp. } 38.610 + \text{Rp. } 12.000$

(8% untuk penerangan jalan) -  $\text{Rp. } 50.610 + \text{Rp. } 4.049$

- Rp. 54.659

Biaya overhead 1 tahun -  $\text{Rp. } 54.659 \times 12 \text{ bulan}$

- **Rp. 655.908**

## **b. Biaya Perawatan Sistem**

Misalnya :

Catridge	- Rp. 150.000
Mouse	- Rp. 25.000
Keyboard	- Rp. 50.000
RAM 128	- Rp. 150.000
<b>Total</b>	<b>= Rp. 375.000</b>

## **c. Biaya Personil**

Bagian operator Rp. 400.000

Biaya selama 1 tahun Rp. 400.000 \* 12 bulan = **Rp. 4.800.000**

Setiap tahun mengalami kenaikan sebesar 10%

## **C. Manfaat-Manfaat**

### **1. Manfaat Berwujud**

#### **a. Pengurangan Biaya Operasi**

##### **1) Sistem Lama**

- Kertas (2 rim dalam sebulan) 2 * Rp. 30.000	- Rp. 60.000
- Pena per 1 box * Rp. 15.000	- Rp. 15.000
- Mistar 2 set 2 * Rp. 2.500	- Rp. 5.000
- Tipex 2 * Rp 2.500	- Rp. 5.000
- Karyawan yang bekerja 2 orang * @Rp. 400.000	- <u>Rp. 800.000</u>
<b>Total</b>	<b>- Rp. 885.000</b>
<b>Jadi 1 Tahun - Rp. 885.000* 12 Bulan</b>	<b>- Rp.10.620.000</b>

## 2) Sistem Baru

- Tinta Refill 1 buah Rp. 20.000	- Rp. 20.000
- Kertas 1 rim Rp. 30.000	- Rp. 30.000
- Pena 1 buah Rp. 3.000	- Rp. 3.000
- 1 orang operator Rp. 400.000	- <u>Rp. 400.000</u>
Total	- Rp. 453.000

Jadi 1 Tahun - Rp. 453.000 \* 12 Bulan - Rp. 5.436.000

Jadi Tahun pertama - Tahun kedua Rp. 10.620.000 - Rp. 5.436.000

= **Rp. 5.184.000**

Pengurangan biaya operasi mengalami peningkatan sebesar 25 % tiap tahun.

## 2. Pengurangan Biaya Kesalahan Proses

### a. Sistem Lama

- Kertas (2 rim dalam sebulan) @Rp. 30.000	- Rp. 60.000
- Pena 1 Box Rp. 15.000 * 1 (dalam sebulan)	- Rp. 15.000
- Tipex 2* Rp. 2.500 * (dalam sebulan)	- Rp. 5.000
- Mistar 2 set 2* Rp. 2.500	- <u>Rp. 5.000</u>
Total	- Rp. 84.000

Jadi 1 tahun - Rp. 84.000 \* 12 Bulan - Rp. 1.020.000

### b. Sistem Baru

- Tinta Refill 1 buah Rp. 20.000	- Rp. 20.000
- Kertas 1 rim Rp. 30.000	- Rp. 30.000
- Pena 1 buah Rp. 3000	- <u>Rp. 3.000</u>

- Rp 53.000

Jadi 1 Tahun - Rp. 53.000 \* 12 bulan - Rp. 636.000

Jadi pengurangan biaya kesalahan proses adalah :

- Sistem lama - sistem baru

- Rp. 1.008.000 - Rp. 636.000

= **Rp. 3.88.000**

## 2. Manfaat Tak Berwujud

### a. Peningkatan Kinerja Personil

Berdasarkan gaji operator per bulan -Rp. 400.000

Gaji per bulan Rp. 400.000 \* 12 bulan - Rp. 4.800.000

No	Tingkat kepuasan Manajer	Kenaikan Manajemen (O <sub>i</sub> )	Probabilitas terjadinya (P <sub>i</sub> )	O <sub>i</sub> x P <sub>i</sub>
1	Sangat Puas	2.400.000	50%	1.200.000
2	Puas	1.920.000	40%	768.000
3	Cukup Puas	480.000	10%	48.000
				<b>2.016.000</b>

Gaji per bulan Rp. 500.000 \* 12 bulan - Rp. 6.000.000

No	Tingkat kepuasan Manajer	Kenaikan Manajemen (O <sub>i</sub> )	Probabilitas terjadinya (P <sub>i</sub> )	O <sub>i</sub> x P <sub>i</sub>
1	Sangat Puas	3.000.000	50%	1.500.000
2	Puas	2.400.000	40%	960.000
3	Cukup Puas	600.000	10%	60.000
				2.520.000



## b. Peningkatan Pelayanan Kepada Konsumen

- a. Akibat dari pelayanan yang kurang baik atau kurang memuaskan kepada konsumen atau pelanggan, maka pelanggan akan berkurang bahkan mungkin tidak akan lagi datang ke toko tersebut.
- b. Seberapa banyak pembeli yang akan berkurang atau tidak datang lagi ke Toko Rejeki Jaya.
  - Kemungkinan 50% akan mengurangi 10% dari kedatangan pembeli untuk berbelanja ke Toko Rejeki Jaya.
  - Kemungkinan 20% akan mengurangi 50% dari kedatangan pembeli untuk berbelanja ke Toko Rejeki Jaya.
  - Kemungkinan 10% akan mengurangi 70% dari kedatangan pembeli untuk berbelanja ke Toko Rejeki Jaya.
  - Kemungkinan 5% akan mengurangi 90% dari kedatangan pembeli untuk berbelanja ke Toko Rejeki Jaya.

Kehilangan konsumen :

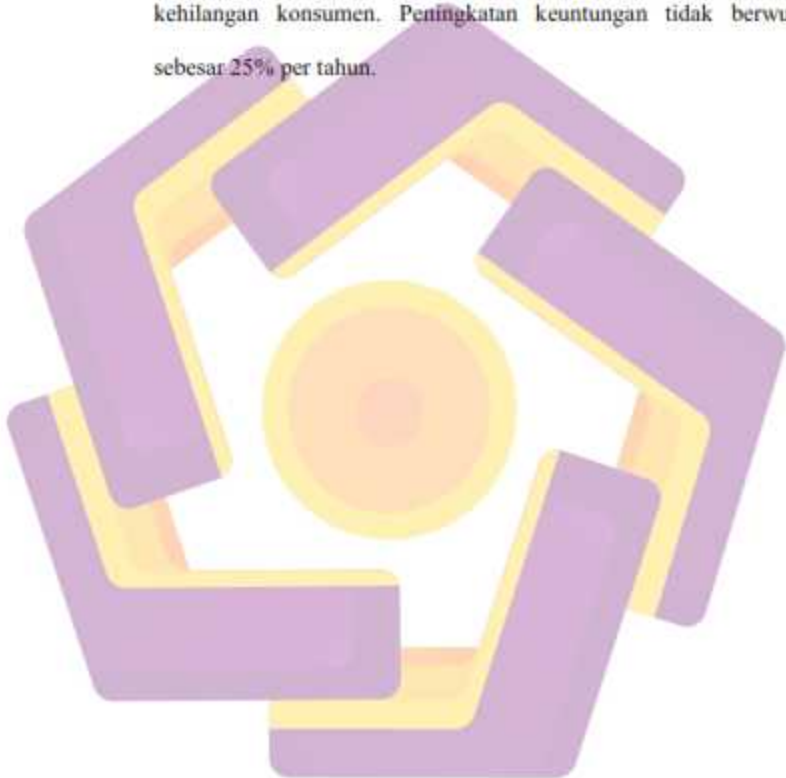
$$= (50\% * 10\% \text{ kedatangan}) + (20\% * 50\% \text{ kedatangan}) + (10\% * 75\% \text{ kedatangan}) + (5\% * 90\% \text{ kedatangan})$$

$$= 5 + 10 + 7,5 + 4,5$$

$$= 27\%$$

jika rata-rata kedatangan konsumen akan mendatangkan keuntungan bagi perusahaan Rp.3.000.000 per tahun, maka dapat diperkirakan perusahaan akan mengalami kehilangan 27% dari kedatangan

konsumen sebesar Rp. 810.000. Jika sebanyak 3 konsumen, maka dapat diperkirakan jumlah kehilangan adalah  $3 * \text{Rp. } 810.000 = \text{Rp. } 2.430.000$ , dan apabila sistem diterapkan maka akan mendatangkan keuntungan sesuai dengan hasil perhitungan kehilangan konsumen. Peningkatan keuntungan tidak berwujud sebesar 25% per tahun.





### DIAGRAM ARUS DATA KONTEKS



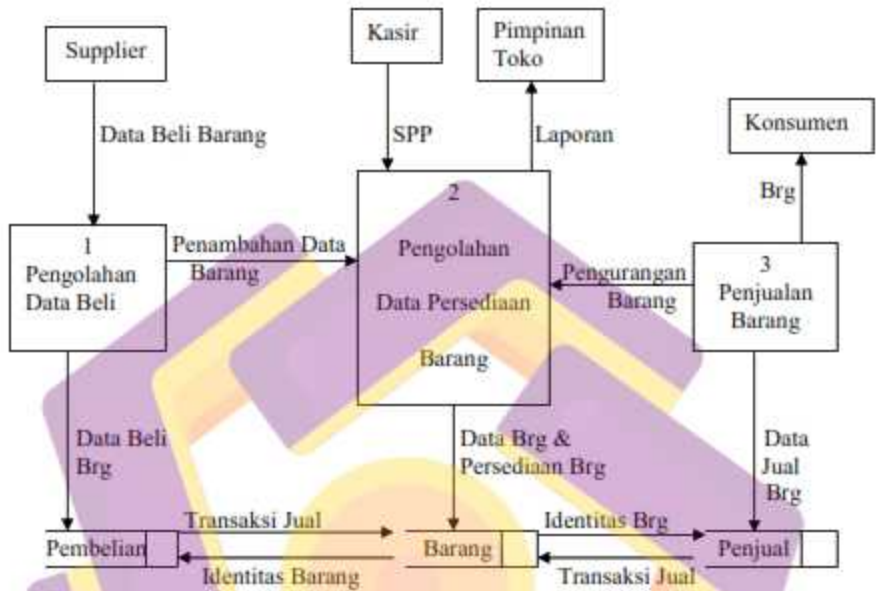
Gambar 3.4 Diagram Arus Data Konteks

### DIAGRAM ARUS DATA LEVEL 1



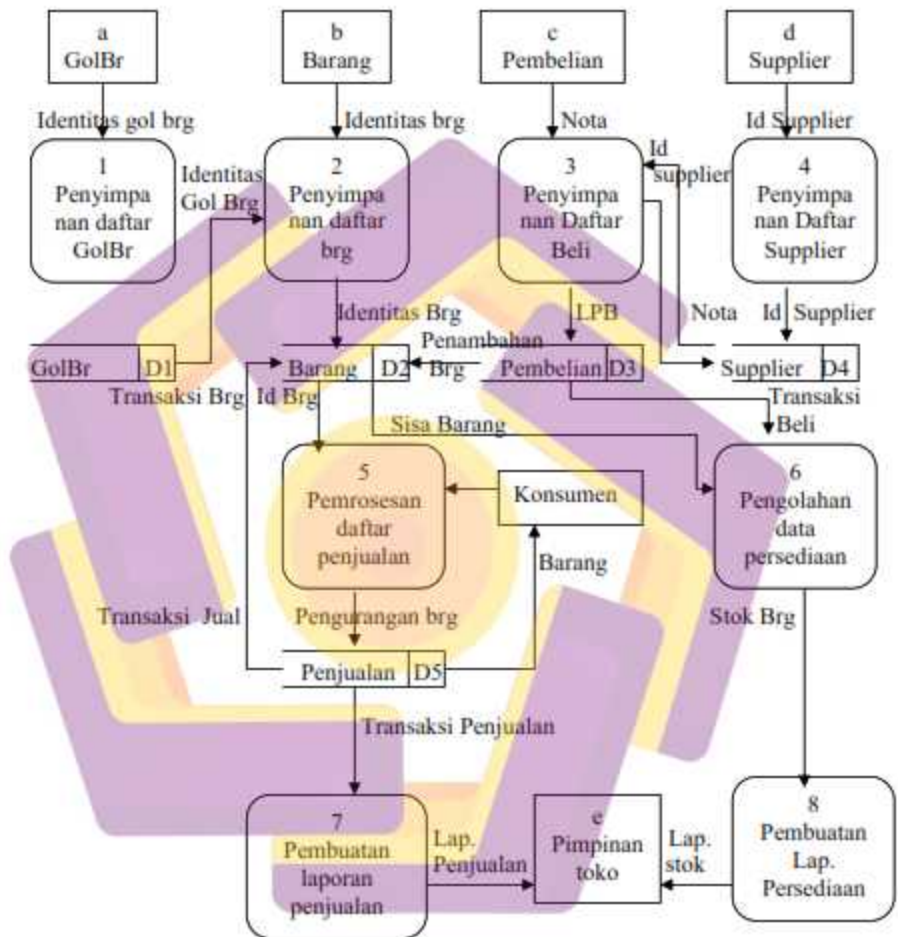
Gambar 3.5 Diagram Arus Dta Level 1

## DIAGRAM ARUS DATA LEVEL 2



Gambar 3.6 Diagram Arus Data Level 2

DIAGRAM ARUS DATA LEVEL 3



Gambar 3. Diagram Arua Level 3

### Listing Prigram (Form Pembelian)

```
unit UBPEMBELIAN;

procedure TFPembelian.FormActivate(Sender: TObject);
begin
  Btreset.click;
  EdTanggal.Text:=FormatDateTime('mm/dd/yy',now());
end;

procedure TFPembelian.BtCariClick(Sender: TObject);
var KdSupplier : string;
    no_faktur : integer;
begin
  KdSupplier := 'S' + EdKodeSupp.Text;
  if (EdKodeSupp.Text = '') then
    ShowMessage('Kode Supplier Masih Kosong !')
  else
    begin
      with DataModule1.Query2 do
        begin
          close;
          sql.Clear;
          sql.Add('select * from Supplier where
KdSupplier'+QuotedStr(EDKODESUPP.Text));
          open;
          end;
        if(DataModule1.Query2.RecordCount = 0) then
          begin
            if (Application.MessageBox('Kode Supplier tidak terdaftar, apa anda ingin
menambah?','Konfirmasi',MB_YESNO+MB_ICONINFORMATION)-IDYES)
            then FDataSupplier.show
            else EdKodeSupp.SetFocus;
            end
          else
            begin
              EdNamaSupp.Text:=
DataModule1.Query2.fieldbyname('NmSupplier').AsString;
              EdTelpSupp.Text:= datamodule1.query2.fieldbyname('TelpSupplier').asString;
              EdAlmtSupp.Text:=
DataModule1.Query2.fieldbyname('AlmtSupplier').AsString;
              EdNoFaktur.Enabled := True;
              EdNoFaktur.SetFocus;
              with DataModule1.Query2 do
                begin
                  close;
```

```

    sql.Clear;
    sql.add('select max(NoFaktur) from ITEMBELI');
    open;
end;
if (DataModule1.Query2.RecordCount > 0) then
begin
    no_faktur := DataModule1.Query2.Fields[0].AsInteger;
    EdNoFaktur.Text := IntToStr(no_faktur + 1);
end
else
    EdNoFaktur.Text := '1';
end;
EdNoFaktur.Enabled := False;
end;
end;

procedure TFPembelian.EdKodeSuppKeyPress(Sender: TObject; var Key: Char);
begin
if key=#13 then BtCari.click;
end;

procedure TFPembelian.tampil;
begin
with DataModule1.Query2 do
begin
close;
sql.Clear;
sql.add('select SUM(Totalbeli) from ITEMBELI where
NoFaktur'+QuotedStr(EdNoFaktur.Text));
open;
end;
LbTotal.Caption := DataModule1.Query2.Fields[0].AsString;
with DataModule1.Query5 do
begin
close;
sql.Clear;
sql.add('select NoFaktur,KodeBr>NamaBr,HargaBr,JumlahBeli,TotalBeli from
STOK,ITEMBELI where STOK.KodeBr=ITEMBELI.KodeBr and
ITEMBELI.NoFaktur'+QuotedStr(EdNoFaktur.Text)+'");
open;
end;
DBGrid1.DataSource:=DataModule1.DataSource5;
end;

procedure TFPembelian.BtHapusClick(Sender: TObject);
var beli, stok: integer;

```

```

jumlah:string;
begin
if (CbKodeBr.Text = "") then
begin
ShowMessage('Pilih Kode Barang yang akan dihapus !');
CbKodeBr.SetFocus;
end
else
begin
with DataModule1.Query1 do
begin
close;
sql.Clear ;
sql.add('select KodeBr from ITEMBELI where
KodeBr'+QuotedStr(CbKodeBr.Text)+' and
NoFaktur'+QuotedStr(EdNoFaktur.Text));
open;
end;
if (DataModule1.Query1.RecordCount = 0) then
begin
ShowMessage('Barang dengan kode "'+CbKodeBr.Text+"' belum dibeli');
CbKodeBr.SetFocus;
end
else
begin
if (Application.MessageBox('Anda yakin tidak jadi beli barang
tersebut?', 'Konfirmasi', MB_YESNO+MB_ICONINFORMATION)-IDYES) then
begin
with DataModule1.Query1 do
begin
close;
sql.Clear;
sql.add('Select JumlahBr from STOK where
KodeBr'+QuotedStr(CbKodeBr.Text));
open;
end;
stok := DataModule1.Query1.Fields[0].AsInteger;
with DataModule1.Query1 do
begin
close;
sql.Clear ;
sql.add('select Jumlahbeli from ITEMBELI where
KodeBr'+QuotedStr(CbKodeBr.Text)+' and
NoFaktur'+QuotedStr(EdNoFaktur.Text)+'');
open;
end;

```



```

beli := DataModule1.Query1.Fields[0].AsInteger;
jumlah := inttostr(stok - beli);
with DataModule1.Query4 do
begin
close;
sql.Clear ;
sql.add('delete From ITEMBELI where
KodeBr~'+QuotedStr(CbKodeBr.Text)+' and
NoFaktur~'+QuotedStr(EdNoFaktur.Text)+'');
ExecSQL;
end;
with DataModule1.Query3 do
begin
close;
sql.Clear ;
sql.add('update STOK set JumlahBr~'+QuotedStr(Jumlah)+' where
KodeBr~'+QuotedStr(CbKodeBr.Text)+'');
ExecSQL;
end;
tampil;
end;
end;
end;
with DataModule1.Query1 do
begin
close;
sql.Clear ;
sql.add('select NoFaktur from ITEMBELI where
NoFaktur~'+QuotedStr(EdNoFaktur.Text));
open;
end;
if (DataModule1.Query1.RecordCount = 0) then
begin
CbKodeBr.Text := '';
CbKodeBr.SetFocus;
EdNamaBr.Text := '';
EdBeliBr.Text := '0';
EdBeliBr.Enabled := false;
EdHargaBr.Text := '0';
EdStokBr.Text := '0';
EdTotalBr.Text := '0';
BtSelesai.Enabled := false;
BtReset.Enabled := true;
tampil;
end;

```



```
end;
```

```
procedure TFPembelian.BtSelesaiClick(Sender: TObject);  
begin  
  with DataModule1.Query3 do  
    begin  
      close;  
      sql.Clear;  
      sql.add('insert into  
PEMBELIAN(KdSupplier,TglFaktur)values('+ QuotedStr(EdKodeSupp.Text)+';'+  
QuotedStr(EdTanggal.Text)+'');  
      ExecSQL;  
    end;
```

```
    ShowMessage('Transaksi Telah Selesai');  
    BtReset.Enabled := true;  
    BtReset.Click;  
    with DataModule1.Query1 do  
      begin  
        close;  
        sql.Clear ;  
        sql.add('SELECT * FROM pembelian');  
        Open;  
      end;  
      //tampil;  
      DBGrid1.DataSource:=DataModule1.DataSource1;  
    end;
```

```
procedure TFPembelian.BtResetClick(Sender: TObject);  
begin  
  EdKodeSupp.Text := '';EdKodeSupp.SetFocus;  
  EdNamaSupp.Text := '';  
  EdTelpSupp.Text := '';  
  EdAlmtSupp.Text := '';  
  EdNoFaktur.Text := '';  
  CbKodeBr.Clear;CbKodeBr.Enabled := false;  
  EdNamaBr.Text := '';  
  EdBeliBr.Text := '';EdBeliBr.Enabled := false;  
  EdHargaBr.Text := '0';  
  EdStokBr.Text := '0';  
  EdTotalBr.Text := '0';  
  LbTotal.Caption := '';  
  BtHapus.Enabled := false;  
  BtSelesai.Enabled := false;  
  with DataModule1.Query5 do  
    begin
```

```

        close;
        sql.Clear;
    end;
    DBGrid1.DataSource:=DataModule1.DataSource5;
end;

```

```

procedure TFPembelian.BrTutupClick(Sender: TObject);
begin
close;
end;

```

```

procedure TFPembelian.CBKodeBrSelect(Sender: TObject);
begin
with DataModule1.Query2 do
begin
close;
sql.Clear ;
sql.Add('select * from STOK where KodeBr='+QuotedStr(CbKodeBr.Text));
open;
Refresh;
end;
if (DataModule1.Query2.RecordCount = 0) then
begin
ShowMessage('Data barang tidak ditemukan');
CbKodeBr.SetFocus;
end
else
begin
EdNamaBr.Text := DataModule1.Query2.Fieldbyname('NamaBr').AsString;
EdHargaBr.Text :=DataModule1.Query2.Fieldbyname('HargaBr').AsString;
EdStokBr.Text :=DataModule1.Query2.Fieldbyname('JumlahBr').AsString;
EdBeliBr.Enabled := true;
EdBeliBr.SetFocus ;
end;
end;

```

```

procedure TFPembelian.EdBeliBrChange(Sender: TObject);
var beli,stok,harga,total:integer;
begin
if (edbelibr.Text='') then edbelibr.Text:='0';
beli := StrToInt(edbelibr.text);
stok:= StrToInt(edstokbr.Text);
harga:= StrToInt(edhargaBr.Text);
if (beli <> stok) then
begin
total := beli * Harga;

```

```
    edtotalbr.Text := inttostr(Total);  
end  
end;
```

```
procedure TFPembelian.EdStokBrKeyPress(Sender: TObject; var Key: Char);  
var beli, stok: integer;  
    sisa, no_faktur : string;  
begin  
    BtReset.Enabled := false;  
    EdNoFaktur.Enabled := false;  
    BtHapus.Enabled := TRUE;  
    BtSelesai.Enabled := TRUE;  
    if key=#13 then  
        begin  
            if (EdBeliBr.Text = '0') or (EdBeliBr.Text = '') then  
                ShowMessage('Anda Belum memasukan jumlah Pembelian')  
            else  
                begin  
                    beli := StrToInt(EdBeliBr.Text);  
                    stok := StrToInt(EdStokBr.Text);  
                    sisa := IntToStr(stok + beli);  
                    with DataModule1.Query2 do  
                        begin  
                            close;  
                            sql.Clear;  
                            sql.add('select NoFaktur from ITEMBELI where  
no_faktur=' + QuotedStr(EdNoFaktur.Text) + ');  
                            open;  
                            end;  
                            if (DataModule1.Query2.RecordCount > 0) then  
                                begin  
                                    no_faktur := DataModule1.Query2.Fields[0].AsString;  
                                end  
                            else  
                                no_faktur := '1';  
                            with DataModule1.Query3 do  
                                begin  
                                    close;  
                                    sql.Clear;  
                                    sql.add('insert into ITEM(NoNota,KodeBr,Jumlah,Total)');  
                                    sql.add('values(' + QuotedStr(no_faktur) + ',' + QuotedStr(CbKodeBr.Text) + ');  
                                    sql.Add(',' + QuotedStr(EdBeliBr.Text) + ',' + QuotedStr(EdTotalBr.Text) + ');  
                                    ExecSQL;  
                                end;  
                            with DataModule1.Query4 do  
                                begin
```

```

close;
sql.clear ;
sql.add('update STOK set JumlahBr-' + sisa + ' where
KodeBr-' + QuotedStr(CbKodeBr.Text));
ExecSQL;
end;
CbKodeBr.Text := '';
CbKodeBr.SetFocus;
EdNamaBr.Text := '';
EdBeliBr.Text := '0';
EdBeliBr.Enabled := false;
EdHargaBr.Text := '0';
EdStokBr.Text := '0';
EdTotalBr.Text := '0';
tampil;
end;
end;
end;

procedure TFPembelian.EdBeliBrKeyPress(Sender: TObject; var Key: Char);
var beli, stok: integer;
    sisa: string;
begin
    BtReset.Enabled := false;
    EdNoFaktur.Enabled := false;
    BtHapus.Enabled := TRUE;
    BtSelesai.Enabled := TRUE;
    if key = #13 then
    begin
        if (EdBeliBr.Text = '0') or (EdBeliBr.Text = '') then
            ShowMessage('Anda Belum memasukan jumlah Pembelian')
        else
            begin
                beli := StrToInt(EdBeliBr.Text);
                stok := StrToInt(EdStokBr.Text);
                sisa := IntToStr(stok + beli);
                with DataModule1.Query3 do
                    begin
                        close;
                        sql.Clear ;
                        sql.add('insert into ITEMBELI(NoFaktur,KodeBr,JumlahBeli,TotalBeli)');
                        sql.add('values(' + QuotedStr(EdNoFaktur.Text) + ',' + QuotedStr(CbKodeBr.Text) + ')');
                        sql.Add(',' + QuotedStr(EdBeliBr.Text) + ',' + QuotedStr(EdTotalBr.Text) + ')');
                        ExecSQL;
                    end;
                with DataModule1.Query4 do

```

```

begin
close;
sql.clear ;
sql.add('update STOK set JumlahBr-'+sisa+' where
KodeBr-'+QuotedStr(CbKodeBr.Text));
ExecSQL;
end;
CbKodeBr.Text:='-';
CbKodeBr.SetFocus;
EdNamaBr.Text :='-';
EdBeliBr.Text :='-0';
EdBeliBr.Enabled :- false;
EdHargaBr.Text :='-0';
EdStokBr.Text :='-0';
EdTotalBr.Text :='-0';
tampil;
end;
end;
end;

procedure TFPembelian.Timer1Timer(Sender: TObject);
begin
lbjam.Caption:='-'+FormatDateTime('dddd,d mmmm yyyy" " hh:mm:ss',Now);
end;

procedure TFPembelian.EdNoFakturChange(Sender: TObject);
begin
CBKodeBr.Enabled :-true;
CbKodeBr.Clear ;
CbKodeBr.SetFocus;
with DataModule1.Query2 do
begin
close;
sql.Clear ;
sql.Add('select KodeBr from STOK');
open;
end;
while not DataModule1.Query2.Eof do
begin
CBKodeBr.Items.Add(DataModule1.Query2.Fields[0].AsString);
DataModule1.Query2.Next;
end;
DataModule1.Query2.first;
end;
end.

```

### Listing Program ( Form Penjualan)

```
unit U_dataPenjualan;  
interface  
  
uses  
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
  Dialogs, StdCtrls, Grids, DBGrids, Mask;  
  
type  
  TFTransaksi = class(TForm)  
    GroupBox1: TGroupBox;  
    GroupBox2: TGroupBox;  
    Label1: TLabel;  
    Label2: TLabel;  
    Label3: TLabel;  
    Label4: TLabel;  
    Label5: TLabel;  
    Label6: TLabel;  
    Label7: TLabel;  
    Label8: TLabel;  
    LbTotal: TLabel;  
    total: TLabel;  
    EdKodeCus: TEdit;  
    EdNamaCus: TEdit;  
    EdAlamatCus: TEdit;  
    EdNamaBr: TEdit;  
    EdBeliBr: TEdit;  
    EdHargaBr: TEdit;  
    EdStokBr: TEdit;  
    EdTotalBr: TEdit;  
    EdNoNota: TEdit;  
    CbKodeBr: TComboBox;  
    DBGrid1: TDBGrid;  
    BtCari: TButton;  
    BtSelesai: TButton;  
    BtReset: TButton;  
    BtTutup: TButton;  
    BtHapus: TButton;  
    Label11: TLabel;  
    Label12: TLabel;  
    Label13: TLabel;  
    Label14: TLabel;  
    Label15: TLabel;  
    EdTanggal: TMaskEdit;
```



```

Label9: TLabel;
EdtelpCus: TEdit;
procedure FormActivate(Sender: TObject);
procedure BtCariClick(Sender: TObject);
procedure EdKodeCusKeyPress(Sender: TObject; var Key: Char);
procedure EdNoNotaKeyPress(Sender: TObject; var Key: Char);
procedure CbKodeBrSelect(Sender: TObject);
procedure EdBeliBrChange(Sender: TObject);
procedure EdBeliBrKeyPress(Sender: TObject; var Key: Char);
procedure BtHapusClick(Sender: TObject);
procedure BtSelesaiClick(Sender: TObject);
procedure BtResetClick(Sender: TObject);
procedure tampil;
procedure BtTutupClick(Sender: TObject);
private
  { Private declarations }
public
  { Public declarations }
end;

var
  FTransaksi: TFTransaksi;

implementation

uses U_modul, U_inputcustomer;

{SR *.dfm}

procedure TFTransaksi.FormActivate(Sender: TObject);
begin
  BtReset.Click;
  EdTanggal.Text := formatDate('mm/dd/yy',now());
end;

procedure TFTransaksi.BtCariClick(Sender: TObject);
var kdPelanggan:string;
begin
  KdPelanggan := 'C'+edkodecus.Text;
  if (edkodecus.text~"") then
    showMessage('kode Pelanggan masih kosong!!!')
  else
    begin
      with datamodule1.query2 do
        begin
          close;

```



```

sql.clear;
sql.add('select * from PELANGGAN where
KdPelanggan'+QuotedStr(KdPelanggan)+'');
open;
end;
if (datamodule1.query2.recordcount = 0) then
begin
if (application.MessageBox('Kode Pelanggan tidak terdaftar, apakah anda ingin
menambahkan?', 'konfirmasi', MB_YESNO+MB_ICONINFORMATION)-IDYES)
then FDataPembeli.show
else EdKodeCus.SetFocus;
end
else
begin
ednamacus.Text := dataModule1.query2.fieldbyname('NmPelanggan').asString;
edafamatCus.Text := dataModule1.query2.fieldbyname('AlmPelanggan').AsString;
edTelpCus.Text := dataModule1.query2.fieldbyname('TelpPelanggan').asString;
edNonota.enabled := true;
EdnoNota.SetFocus;
end;
end;
end;

procedure TFTransaksi.EdKodeCusKeyPress(Sender: TObject; var Key: Char);
begin
if key=#13 then BtCari.click;
end;

procedure TFTransaksi.EdNoNotaKeyPress(Sender: TObject; var Key: Char);
begin
if key=#13 then
begin
with DataModule1.Query2 do
begin
close;
sql.Clear;
sql.add('select NoNota from ITEM where
NoNota'+QuotedStr(EdNonota.Text));
open;
end;
if (DataModule1.Query2.RecordCount <> 0) then
ShowMessage ('Nomor Nota Sudah ada, silahkan ini yang lain!')
else
begin
CbKodeBr.Enabled := true;
CbKodeBr.Clear;

```

```

CbKodeBr.SetFocus;
with DataModule1.Query2 do
begin
close;
sql.Clear ;
sql.Add('select KodeBr from STOK');
open;
end;
while not DataModule1.Query2.Eof do
begin
cbkodebr.items.add(datamodule1.query2.fields[0].asString);
datamodule1.query2.next;
end;
datamodule1.query2.NEXT;
end;
end;
end;

procedure TFTransaksi.CbKodeBrSelect(Sender: TObject);
begin
with datamodule1.query2 do
begin
close;
sql.Clear;
sql.Add('select * from STOK where KodeBr='+QuotedStr(cbkodebr.Text));
open;
end;
if (Datamodule1.query2.RecordCount = 0) then
begin
ShowMessage ('Data barang tidak ditemukan');
CbKodeBr.SetFocus;
end
else
begin
edNamaBr.Text := DataModule1.Query2.Fieldbyname('NamaBr').AsString;
EdHargaBr.Text := DataModule1.Query2.fieldbyname('HargaBr').AsString;
EdStokBr.Text := DataModule1.Query2.fieldbyname('JumlahBr').AsString;

CBKODEBR.Text:=DATAMODULE1.QuerY2.FieldBYNAME('KDGOLBR').A
SSTRING;
EdBeliBr.enabled := true;
EdBeliBr.SetFocus;
end;
end;

procedure TFTransaksi.EdBeliBrChange(Sender: TObject);

```

```

var beli,stok,harga,TOTAL:integer;
begin
if (edbelibr.Text = "") then EdbeliBr.Text := '0';
beli := StrToInt(edbelibr.Text);
stok := StrToInt(EdstokBr.Text);
harga := StrToInt(edhargabr.text);
if (beli <= stok) then
begin
TOTAL := beli * harga;
edtotalbr.Text := IntToStr(TOTAL);
end
else
begin
showMessage('stok tidak cukup!');
edBelibr.setFocus;
end;
end;

procedure TFTransaksi.EdBeliBrKeyPress(Sender: TObject; var Key: Char);
var beli,stok:integer;
sisa:string;
begin
BtReset.Enabled := false;
EdNoNota.Enabled := false;
BtHapus.Enabled := true;
BtSelesai.Enabled := True;
if key=#13 then
begin
if (EdBeliBr.Text = '0') or (EdBeliBr.Text = "") then
ShowMessage ('Anda belum memasukkan jumlah pembelian')
else
begin
beli := StrToInt(EdBeliBr.Text);
stok := StrToInt(Edstokbr.Text);
sisa := IntToStr(stok - beli);
with DataModule1.Query3 do
begin
close;
sql.Clear;
sql.add('insert into ITEM(NoNota,KODEBR,jumlah,total)');
sql.add('values('+QuotedStr(EdNoNota.Text)+';'+QuotedStr(CBKODEBR.Text)+'");
sql.add(','+quotedstr(Edbelibr.Text)+';'+QuotedStr(Edtotalbr.Text)+'');
ExecSQL;
end;
with datamodule1.Query4 do
begin

```

```

close;
sql.Clear;
sql.Add('update STOK set jumlahbr-' + sisa + ' where
kodebr-' + quotedstr(cbkodebr.Text));
execSQL;
end;
cbKodeBr.Text := '';
CbKodeBr.SetFocus;
EdNamaBr.Text := '';
EdBeliBr.Text := '0';
EdBeliBr.Enabled := False;
EdHargaBr.Text := '0';
EdStokBr.Text := '0';
EdTotalBR.Text := '0';
tampil;
end;
end;
end;

procedure TFTtransaksi.BtHapusClick(Sender: TObject);
var beli, stok, jml_beli: integer;
    jumlah: string;
begin
if (cbkodebr.Text = '') then
begin
showmessage('pilih kode barang yang akan dihapus');
cbkodebr.setfocus;
end
else
begin
with datamodule1.query1 do
begin
close;
sql.Clear;
sql.Add('select kodebr from ITEM where kodebr-' + Quotedstr(cbkodebr.Text) +
and NoNota-' + Quotedstr(EDNONOTA.Text));
open;
end;
if (datamodule1.query1.RecordCount = 0) then
begin
showmessage('Barang dengan kode "' + cbkodebr.Text + '" belum dibeli');
cbkodebr.SetFocus;
end
else
begin

```

```

if (application.MessageBox('Anda yakin tidak jadi beli barang
tersebut?', 'konfirmasi', MB_YESNO+MB_ICONINFORMATION)-IDYES) then
begin
with datamodule1.Query1 do
begin
close;
sql.Clear;
sql.add('select jumlahbr from STOK where
kodebr-'+Quotedstr(cbkodebr.Text));
open;
end;
stok := Datamodule1.Query1.Fields[0].asinteger;
with datamodule1.query1 do
begin
close;
sql.Clear;
sql.add('select total, jumlah from ITEM where
KodeBr-'+Quotedstr(cbkodebr.Text)+' and
NoNota-'+Quotedstr(edNonota.Text)+'");
open;
end;
beli := datamodule1.query1.Fieldbyname('total').asinteger;
jml_beli := datamodule1.query1.Fieldbyname('jumlah').asinteger;
jumlah:= inttostr(stok+jml_beli);
with datamodule1.Query4 do
begin
close;
sql.Clear;
sql.add('delete from ITEM where kodeBr-'+Quotedstr(cbkodeBr.Text)+' and
NoNota-'+Quotedstr(EdNoNota.Text)+'");
execSQL;
end;
with datamodule1.query4 do
begin
close;
sql.Clear;
sql.add('update STOK set JumlahBr-'+quotedstr(jumlah)+' where
kodebr-'+Quotedstr(cbkodebr.Text)+'");
ExecSQL;
end;
tampil;
end;
end;
end;
with datamodule1.Query1 do
begin

```

```

close;
sql.Clear;
sql.add('select NoNota from ITEM where
NoNota='+Quotedstr(edNoNota.Text));
open;
end;
if (datamodule1.Query1.RecordCount=0) then
begin
cbkodebr.Text := '';
cbkodebr.SetFocus;
ednamabr.Text := '';
edbelibr.Text := '0';
edbelibr.Enabled:=false;
edhargabr.Text := '0';
edstokbr.Text := '0';
edttotalbr.Text := '0';
btselesai.Enabled := false;
btreset.Enabled := true;
tampil;
end;
end;
procedure TFTransaksi.BtSelesaiClick(Sender: TObject);
begin
with datamodule1.Query3 do
begin
close;
sql.Clear;
sql.Add('insert into PENJUALAN (NoNota, KdPelanggan,
tglNota)values('+ Quotedstr(edNoNota.Text)+'+'+Quotedstr(edkodecus.Text)+'+'+Q
uotedstr(edtanggal.Text)+'')');
ExecSQL;
showmessage('Transaksi PENJUALAN telah selesai');
end;
btreset.Enabled:=true;
tampil;
Btreset.Click;
with datamodule1.query1 do
begin
close;
sql.Clear;
sql.add('select * from PENJUALAN');
open;
end;
DBgrid1.datasource:=datamodule1.datasource1;

end;

```



```

procedure TFTransaksi.BtResetClick(Sender: TObject);
begin
edkodecus.Text:='-'; edkodecus.setfocus;
ednamacus.Text:='-';
edalamatCus.Text:='-';
ednonota.Text:='-';
cbkodebr.Clear; cbkodebr.Enabled:=false;
ednamabr.Text:='-';
edbelibr.Text:='-'; edbelibr.enabled := false;
edhargabr.Text := '0';
edstokbr.Text := '0';
edttotalbr.Text:='-0';
lbtotal.Caption:='-';
Bthapus.Enabled := false;
btselesai.enabled := false;
with datamodule1.Query5 do
begin
close;
sql.Clear;
end;
dbrgrid1.DataSource := datamodule1.DataSource5;
end;

procedure TFTransaksi.BtTutupClick(Sender: TObject);
begin
CLOSE;
end;

procedure TFTransaksi.tampil;
begin
with DataModule1.Query2 do
begin
close;
sql.Clear;
sql.add('select SUM (total) from ITEM where
NoNota-'+QuotedStr(EdNoNota.Text));
open;
end;
LbTotal.Caption := DataModule1.Query2.Fields[0].AsString;
with DataModule1.Query5 do
begin
close;
sql.Clear;

```



```

    sql.add('select NONOTA,KODEBR,namabr,HargaBr,Jumlah,TOTAL from
    STOK,ITEM where STOK.KODEBR=ITEM.KODEBR AND
    ITEM.NoNota=''+QuotedStr(EdNonota.Text)+'');
    open;
    refresh;
    end;
dbgrid1.datasource := datamodule1.datasource5;
end;
END.

```

### Listing Program (Form Supplier)

```

unit USupplier;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
    Dialogs, Grids, DBGrids, ExtCtrls, StdCtrls, jpeg;

type
    TFDataSupplier = class(TForm)
        DataSupplier: TGroupBox;
        Label1: TLabel;
        Label2: TLabel;
        Label3: TLabel;
        Label4: TLabel;
        EdKodeSupp: TEdit;
        EdNamaSupp: TEdit;
        EdTelpSupp: TEdit;
        EdAlamatSupp: TEdit;
        Label5: TLabel;
        BtTambah: TButton;
        BtEdit: TButton;
        BtHapus: TButton;
        BtReset: TButton;
        DBGrid1: TDBGrid;
        Button1: TButton;
        Label6: TLabel;
        LbJumlahRec: TLabel;
        Image1: TImage;
        Image2: TImage;
        GroupBox1: TGroupBox;
        rdkode: TRadioButton;
        rdnama: TRadioButton;
        edcari: TEdit;
    end;

```

```

BtCari: TButton;
procedure FormActivate(Sender: TObject);
procedure BtTambahClick(Sender: TObject);
procedure Button1Click(Sender: TObject);
procedure BtEditClick(Sender: TObject);
procedure BtCariClick(Sender: TObject);
procedure BtResetClick(Sender: TObject);
procedure BtHapusClick(Sender: TObject);

private
  { Private declarations }
public
  { Public declarations }
end;
var
  FDataSupplier: TFDataSupplier;

implementation
  uses U_modul;
  {SR *.dfm}

  procedure TFDataSupplier.FormActivate(Sender: TObject);
  begin
    Btreset.click;
    with datamodule1.query1 do
      begin
        close;
        sql.clear;
        sql.add('select * from Supplier');
        open;
        refresh;
      end;
    dbgrid1.DataSource:=datamodule1.datasource1;
    lbjumlahrec.caption:=-inttostr(datamodule1.query1.recordcount);
  end;

  procedure TFDataSupplier.BtTambahClick(Sender: TObject);
  var KdSupplier: string;
  begin
    KdSupplier := 'S' + EdKodeSupp.Text;
    with datamodule1.Query2 do
      begin
        close;
        sql.Clear;
        sql.Add('select * from Supplier where KdSupplier=''+quotedstr(KdSupplier)+'');
        open;

```

```

end;
if (datamodule1.Query2.RecordCount <> 0) then
begin
showmessage ('Supplier dengan kode "'+KdSupplier+' "' sudah ada');
breset.Click;
end
else if edkodesupp.Text = '' then
Application.MessageBox('diisi DATA','konfirmasi',mb_ok)
else
begin
with datamodule1.Query3 do
begin
close;
sql.Clear;
sql.add('insert into supplier (kdsupplier,nmsupplier,almtsupplier,TelpSupplier)
values
('+quotedstr(edkodesupp.Text)+';'+quotedstr(ednamasupp.Text)+';'+quotedstr(edA
lmatSupp.Text)+';'+quotedstr(edtelpsupp.Text)+'');
execsql;
end;
showmessage('Data akan ditambah');
breset.Click;
fdatasupplier.activate;
end;
end;

procedure TFDataSupplier.Button1Click(Sender: TObject);
begin
close;
end;

procedure TFDataSupplier.BtEditClick(Sender: TObject);
var kdsupplier:string;
begin
with DataModule1.Query2 do
begin
kdsupplier := 'S' + edkodesupp.Text;
with datamodule1.query2 do
begin
close;
sql.clear;
sql.add('select * from supplier where
Kdsupplier=''+Quotedstr(EdKodesupp.Text)+'');
open;
end;
// jika hasil query ditemukan

```

```

if (DataModule1.Query2.RecordCount = 0) then
begin
  ShowMessage('Supplier dengan kode "'+EdKodesupp.Text+' " Tidak Ada');
  btreset.Click;
end

else
begin
  if (application.MessageBox('Anda yakin data mau
diedit?', 'konfirmasi', mb_yesno+mb_iconinformation)=idyes) then
begin
  with DataModule1.Query3 do
begin
  close;
  sql.Clear;
  sql.add('update supplier set
nmsupplier'+quotedstr(ednamasupp.Text)+' ,telpsupplier'+quotedstr(edtelpsupp.
Text)+' ,almtsupplier'+quotedstr(edalamatupp.Text)+' where
kdsupplier'+quotedstr(edkodesupp.Text)+'');
  ExeCSql;
end;
  ShowMessage('Data akan Ditambah');
  Btreset.Click;
  // mengaktifkan kembali form FDataBarang
  FDataSupplier.Activate;
end;
end;
end;
end;

procedure TFDDataSupplier.BtCariClick(Sender: TObject);
Var KdSupplier : string;
begin
KdSupplier := 'S' + EdkodeSupp.Text;
with datamodule1.Query2 do
begin
close;
sql.Clear;
if (rdkode.Checked) then
  sql.add('select * from supplier where kdSupplier like '+quotedstr(edcari.Text +
'%')+');
if (rdnama.Checked) then
  sql.add('select * from supplier where nmSupplier like '+quotedstr(edcari.Text +
'%')+');
open;
end;
end;

```

```

// jika hasil query2 tidak ditemukan
if (DataModule1.Query2.RecordCount = 0) then
begin
  ShowMessage('Supplier tidak ada!!!');
  btreset.Click;
end
else if edkodesupp.Text = '' then
Application.MessageBox('data belum diisi', 'konfirmasi', mb_ok)
else
begin
  edkodesupp.Enabled := false;
  ednamasupp.Text := datamodule1.Query2.Fieldbyname('NmSupplier').AsString;
  edAlamatSupp.Text := datamodule1.Query2.Fieldbyname('almtsupplier').AsString;
  edtelpsupp.Text := datamodule1.query2.Fieldbyname('TelpSupplier').AsString;
end;
end;

procedure TFDDataSupplier.BtResetClick(Sender: TObject);
begin
  edkodesupp.enabled := true;
  edkodesupp.Text := '';
  edkodesupp.setfocus;
  ednamasupp.Text := '';
  edalamat supp.Text := '';
  edtelpsupp.Text := '';
  btcari.Enabled := true;
end;

procedure TFDDataSupplier.BtHapusClick(Sender: TObject);
var kdsupplier:string;
begin
  kdsupplier := 'S' + edkodesupp.Text;
  with datamodule1.query2 do
  begin
    close;
    sql.Clear;
    sql.add('select * from Supplier where
kdsupplier-' + quotedstr(EDKODESUPP.Text) + ');
    open;
  end;
  if (datamodule1.Query2.RecordCount = 0) then
  begin
    showmessage('Supplier dengan kode "' + EDKODESUPP.Text + '" tidak ada');
    btReset.Click;
  end
end

```

```

else
begin
if (application.MessageBox("Anda yakin data mau
dihapus?", 'konfirmasi', MB_YESNO+MB_ICONINFORMATION)-IDYES) then
begin
with datamodule1.Query4 do
begin
close;
sql.Clear;
sql.Add('delete from Supplier where
Kdsupplier~'+quotedstr(EDKODESUPP.Text)+'');
execsql;
end;
showmessage("Data Sudah dihapus");
Btreset.Click;
FdataSupplier.Activate;
end;
end;
end;
end;
end.

```

#### **Listing Program (Form Data Barang/Stok)**

```

unit DataBarang;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  Dialogs, StdCtrls, DBCtrls, Grids, DBGrids, jpeg, ExtCtrls, Buttons;

type
  TFDataBarang = class(TForm)
    GroupBox1: TGroupBox;
    Label1: TLabel;
    Label2: TLabel;
    hargabr: TLabel;
    Label5: TLabel;
    edkodebr: TEdit;
    ednamabr: TEdit;
    edhargabr: TEdit;
    edjumlahbr: TEdit;
    lbjumlahrec: TLabel;
    BtTambah: TButton;
    BtEdit: TButton;
    BtHapus: TButton;
    Btreset: TButton;
  end;

```



```
DBGrid1: TDBGrid;
Label6: TLabel;
Label3: TLabel;
Label4: TLabel;
EdKodeGolBr: TEdit;
BitBtn1: TBitBtn;
GroupBox2: TGroupBox;
BtCari: TButton;
rdkode: TRadioButton;
rdnama: TRadioButton;
edcari: TEdit;
LBJAM: TLabel;
Timer1: TTimer;
procedure FormActivate(Sender: TObject);
procedure BtTambahClick(Sender: TObject);
procedure Button5Click(Sender: TObject);
procedure BtEditClick(Sender: TObject);
procedure BtHapusClick(Sender: TObject);
procedure BtresetClick(Sender: TObject);
procedure BtCariClick(Sender: TObject);
procedure BitBtn1Click(Sender: TObject);
procedure Timer1Timer(Sender: TObject);
private
  { Private declarations }
public
  { Public declarations }
end;
var
  FDataBarang: TFDataBarang;

implementation

uses U_modul;

{$R *.dfm}

procedure TFDataBarang.FormActivate(Sender: TObject);
begin
  btreset.click;
  with DataModule1.query1 do
  begin
    close;
    sql.clear;
    sql.add('select * from STOK');
    open;
    refresh;
  end;
end;
```



```

end;
DBGrid1.DataSource:=DataModule1.DataSource1;
LbJumlahRec.Caption:= inttostr(DataModule1.Query1.recordcount);
end;

procedure TFDataBarang.BtTambahClick(Sender: TObject);
begin
with DataModule1.Query2 do
begin
close;
sql.clear;
sql.add('select * from stok where KodeBr='+QuotedStr(EdKodeBr.Text)+'');
open;
end;
// jika hasil query ditemukan
if (DataModule1.Query2.RecordCount <> 0) then
begin
ShowMessage('Barang dengan kode "'+EdKodeBr.Text+' " Sudah Ada');
btreset.Click;
end
else if (EdKodebr.text= "") then
application.MessageBox(' data diisi', 'kongirmasi', mb_ok)
else
// jika hasil query tidak ditemukan
begin
with DataModule1.Query3 do
begin
close;
sql.Clear;
sql.add('insert into
STOK(kodebr,kdgolbr>Namabr,Hargabr,jumlahbr)values('+QuotedStr(EdKodeBr.
Text)+' '+QuotedStr(edkodegolbr.Text)+' '+quotedstr(EdNamaBr.Text)+' '+Quote
dStr(EdhargaBr.Text)+' '+QuotedStr(EdjumlahBr.Text)+'');
ExeCSql;
end;
ShowMessage('Data akan Ditambah');
Btreset.Click;
// mengaktifkan kembali form FDataBarang
FDataBarang.Activate;
end;
end;

procedure TFDataBarang.BtEditClick(Sender: TObject);
begin
WITH datamodule1.query2 do
begin

```

```

close;
sql.Clear;
sql.add('select * from stok where kodebr-'+quotedstr(edkodebr.Text)+'');
open;
end;
if (datamodule1.Query2.RecordCount = 0) then
begin
showmessage('Barang dengan kode "' + edkodebr.Text +'" tidak ada');
btreset.click;
end
else if (EdKodebr.text= "") then
application.MessageBox(' data diisi', 'konfirmasi', mb_ok)
else
begin
if (application.MessageBox('Anda yakin data mau
di edit?', 'konfirmasi', MB_YESNO+MB_ICONINFORMATION)-IDYES) then
begin
with datamodule1.Query3 do
begin
close;
sql.Clear;
sql.add('update stok set
namabr-'+quotedstr(ednamabr.Text)+' ,kdgolbr-'+quotedstr(edkodegolbr.Text)+' ,
hargabr-'+quotedstr(edhargabr.Text)+' ,jumlahbr-'+quotedstr(edjumlahbr.Text)+'
where kodebr-'+quotedstr(edkodebr.Text)+'');
execsql;
end;
showmessage('Data Akan Segera DiEdit');
btreset.click;
fdatabarang.activate;
end;
end;
end;

procedure TFDataBarang.BtHapusClick(Sender: TObject);
begin
WITH datamodule1.query2 do
begin
close;
sql.Clear;
sql.add('select * from stok where kodebr-'+quotedstr(edkodebr.Text)+'');
open;
end;
if (datamodule1.Query2.RecordCount = 0) then
begin
showmessage('Barang dengan kode "' + edkodebr.Text +'" tidak ada');

```

```

btreset.click;
end
else if (EdKodebr.text= "") then
application.MessageBox(' data diisi', 'konfirmasi', mb_ok)
else
begin
if (application.MessageBox('Anda yakin data mau
dihapus?', 'konfirmasi', MB_YESNO+MB_ICONINFORMATION)-IDYES) then
begin
with datamodule1.Query4 do
begin
close;
sql.Clear;
sql.add('delete from stok where kodebr=''+quotedstr(edkodebr.Text)+'');
execsql;
end;
showmessage('Data Akan Segera DiHapus');
btreset.click;
fdatabarang.activate;
end;
end;
end;

procedure TFDDataBarang.BtCariClick(Sender: TObject);
begin
with DataModule1.Query2 do
begin
close;
sql.clear;
if (rdkode.Checked) then
sql.add('select * from stok where kodebr like '''+quotedstr(edcari.Text +
'%')+''');
if (rdnama.Checked) then
sql.add('select * from stok where namabr like '''+quotedstr(edcari.Text +
'%')+''');
open;
end;
// jika hasil query2 tidak ditemukan
if (DataModule1.Query2.RecordCount = 0) then
begin
ShowMessage('Barang tidak ada!!!!');
btreset.Click;
end
//jika hasil query2 ditemukan
else
begin

```

```

//disable komponen edkodebr agar tidak bisa diubah-ubah
edkodebr.enabled:=false;
//mengambil nilai field namabr dari query2 sebagai string
edkodebr.Text:=datamodule1.query2.Fieldbyname('Kodebr').asString;
edkodegolbr.Text:=datamodule1.query2.Fieldbyname('KdGolBr').asString;
ednamabr.Text:=datamodule1.query2.Fieldbyname('namabr').AsString;
edhargabr.Text:=datamodule1.query2.Fieldbyname('hargabr').AsString;
edjumlahbr.Text:=datamodule1.query2.Fieldbyname('jumlahbr').AsString;
end;
end;

```

### Listing Program (Form Transaksi Penjualan)

unit UDataTransaksiPenjualan;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, Grids, DBGrids, StdCtrls, ExtCtrls, DBCtrls, Buttons;

type

```

TFDataTransaksi = class(TForm)
  GroupBox1: TGroupBox;
  GroupBox2: TGroupBox;
  DBGrid1: TDBGrid;
  DBGrid2: TDBGrid;
  DBNavigator1: TDBNavigator;
  DBNavigator2: TDBNavigator;
  LbTotal: TLabel;
  BtHapus: TBitBtn;
  BtTutup: TBitBtn;
  procedure DBGrid1CellClick(Column: TColumn);
  procedure BtHapusClick(Sender: TObject);
  procedure transaksi;
  procedure detail;
  procedure FormActivate(Sender: TObject);
private
  { Private declarations }
public
  { Public declarations }
end;

```

var

```
FDataTransaksi: TFDDataTransaksi;
```

```
implementation
```

```
uses U_modul;
```

```
{SR *.dfm}
```

```
procedure TFDDataTransaksi.DBGrid1CellClick(Column: TColumn);  
begin  
  detail;  
  with DataModule1.Query2 do  
  begin  
    close;  
    sql.Clear;  
    sql.Add('select SUM(Total) from ITEM where  
NoNota-' + QuotedSTR(DataModule1.Query5.fieldbyname('NoNota').AsString) +"  
');  
    open;  
    refresh;  
  end;  
  LbTotal.Caption := DataModule1.Query2.Fields[0].AsString;  
  
end;
```

```
procedure TFDDataTransaksi.BtHapusClick(Sender: TObject);  
var nonota:string;  
begin  
  NoNota := DataModule1.Query5.fieldbyname('NoNota').AsString;  
  if (Application.MessageBox('Anda yakin mau menghapus dengan no nota  
tersebut?', 'Konfirmasi', MB_YESNO+MB_ICONINFORMATION)=IDYES) then  
  begin  
    with DataModule1.Query4 do  
    begin  
      close;  
      sql.Clear;  
      sql.Add('delete from PENJUALAN where NoNota-' + Quotedstr(NoNota));  
      ExecSQL;  
    end;  
    with DataModule1.Query4 do  
    begin  
      close;  
      sql.Clear;  
      sql.Add('delete from ITEM where NoNota-' + QuotedStr(NoNota));  
      ExecSQL;  
    end;  
  end;
```

```

    ShowMessage('Data transaksi sudah dihapus');
    transaksi;
    detail;
end;

end;
procedure TFDataTransaksi.transaksi;
begin

with DataModule1.query5 do
begin
close;
sql.clear;
sql.Add('select * from PENJUALAN');
open;
refresh ;
end;
DBGrid1.DataSource := DataModule1.DataSource5;
DBNavigator1.DataSource := DataModule1.DataSource5;

end;

procedure TFDataTransaksi.detail;
begin
with datamodule1.query1 do
begin
close;
sql.Clear;
sql.Add('select KodeBr as Kode, NamaBr as Nama_Barang, HargaBr as
Harga, Jumlah from ITEM,STOK');
sql.Add(' where ITEM.KodeBr=STOK.KodeBr and
NoNota'+QuotedStr(DataModule1.Query5.fieldByName('NoNota').AsString)+'");
open;
refresh;
end;
DBGrid2.DataSource := DataModule1.DataSource1;
DBNavigator2.DataSource := DataModule1.DataSource1;
end;

procedure TFDataTransaksi.FormActivate(Sender: TObject);
begin
transaksi;
end;

end.

```



### Listing Program ( Form Pelanggan)

```
unit U_inputcustomer;  
  
interface  
  
uses  
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
  Dialogs, Grids, DBGrids, StdCtrls, ExtCtrls;  
type  
  TFDataPembeli = class(TForm)  
    GroupBox1: TGroupBox;  
    Label1: TLabel;  
    Label2: TLabel;  
    Label3: TLabel;  
    Label4: TLabel;  
    LbJumlahRec: TLabel;  
    EdAlamatCus: TEdit;  
    EdNamaCus: TEdit;  
    EdKodeCus: TEdit;  
    BtTambah: TButton;  
    BtEdit: TButton;  
    BtHapus: TButton;  
    BtReset: TButton;  
    BtTutup: TButton;  
    DBGrid1: TDBGrid;  
    jam: TEdit;  
    Timer1: TTimer;  
    Label5: TLabel;  
    EdtelpCus: TEdit;  
    Image1: TImage;  
    GroupBox2: TGroupBox;  
    rdkode: TRadioButton;  
    rdnama: TRadioButton;  
    EdCari: TEdit;  
    BtCari: TButton;  
    LBJAM: TLabel;  
    Timer2: TTimer;  
    procedure FormActivate(Sender: TObject);  
    procedure BtCariClick(Sender: TObject);  
    procedure BtTambahClick(Sender: TObject);  
    procedure BtResetClick(Sender: TObject);  
    procedure BtTutupClick(Sender: TObject);  
    procedure BtEditClick(Sender: TObject);  
    procedure BtHapusClick(Sender: TObject);  
    procedure jamChange(Sender: TObject);  
  end;  
end;
```

```

procedure Timer2Timer(Sender: TObject);
//procedure Timer1Timer(Sender: TObject);

private
  { Private declarations }
public
  { Public declarations }
end;

var
  FDataPembeli: TFDataPembeli;

implementation

uses U_modul;

{$SR *.dfm}

procedure TFDataPembeli.Form.Activate(Sender: TObject);
begin
  btreset.click;
  with datamodule1.query1 do
  begin
    close;
    sql.clear;
    sql.add('select * from pelanggan');
    open;
    refresh;
  end;
  DBGrid1.DataSource:=DataModule1.datasource1;
  LbJumlahRec.Caption:=inttostr(datamodule1.query1.recordcount);
end;

procedure TFDataPembeli.BtCariClick(Sender: TObject);
Var KdPelanggan:string;
begin
  KdPelanggan := 'C' + EdKodeCus.Text;
  with datamodule1.Query2 do
  begin
    close;
    sql.clear;
    if (rdkode.Checked) then
      sql.add('select * from pelanggan where kdPelanggan like
'+quotedstr(edcari.Text + '%')+");
    if (rdnama.Checked) then
      sql.add('select * from pelanggan where nmPelanggan like
'+quotedstr(edcari.Text + '%')+");
  end;
end;

```

```

open;
end;
// jika hasil query2 tidak ditemukan
if (DataModule1.Query2.RecordCount = 0) then
begin
  ShowMessage('pelanggan tidak ada!!!');
  btreset.Click;
end
{sql.Add('select * from pelanggan where
KdPelanggan-'+QuotedStr(KdPelanggan)+'');
open;
end;
if (datamodule1.Query2.RecordCount = 0) then
begin
  showmessage('pembeli dengan kode "' +KdPelanggan+ "' tidak ada');
  btreset.Click;
end }
else
begin
  edkodeCus.enabled:=false;
  ednamaCus.Text:=datamodule1.Query2.Fieldbyname('NmPelanggan').asString;
  EdalamatCus.Text:=datamodule1.Query2.Fieldbyname('AlmtPelanggan').asString;
  EdTelpCus.Text:=datamodule1.Query2.fieldbyname('TelpPelanggan').asString;
end;
end;

procedure TFDataPembeli.BtTambahClick(Sender: TObject);
Var KdPelanggan:string;
begin
  IF (EdAlamatCus.Text <> "") and (EdNamaCus.Text <> "") and (EdKodeCus.Text
  <> "") and (EdtelpCus.Text <> "") THEN
  begin
    KdPelanggan := 'C' + edkodecus.Text;
    with datamodule1.Query2 do
      begin
        close;
        sql.clear;
        sql.add('select * from PELANGGAN where
        Kdpelanggan-'+QuotedStr(KdPelanggan)+'');
        open;
        end;
        if (datamodule1.Query2.RecordCount <> 0) then
          begin
            showmessage ('pembeli dengan kode "' +KdPelanggan+ "' akan segera
            ditambahkan');

```

```

Btreset.Click;
end
else if (EdKodeCus.text= "") then
application.MessageBox(' data diisi','kongirmasi','mb_ok)
else
begin
with datamodule1.Query3 do
begin
close;
sql.Clear;
sql.Add('insert into PELANGGAN (KdPelanggan, NmPelanggan,
AlmtPelanggan, TelpPelanggan) values
('+quotedstr(KdPelanggan)+'+',+Quotedstr(ednamaCus.Text)+'+',+QuotedStr(edalam
atcus.Text)+'+',+quotedstr(EdTelpCus.Text)+'');
ExecSQL;
end;
showmessage ('DATA AKAN SEGERA DITAMBAH');
BtReset.Click;
FDataPembeli.activate;
end;
end
else ShowMessage('Data Belum Lengkap');
end;

procedure TFDataPembeli.BtEditClick(Sender: TObject);
var KdPelanggan : string;
begin
IF (EdAlamatCus.Text <> "") and (EdNamaCus.Text <> "") and (EdKodeCus.Text
<> "") and (EdtelpCus.Text <> "") THEN
KdPelanggan:= 'C'+ edkodecus.Text;
with datamodule1.query2 do
begin
close;
sql.Clear;
sql.Add(' select * from pelanggan where
KdPelanggan='+QuotedStr(KdPelanggan)+'');
open;
end;
if (datamodule1.query2.recordcount = 0) then
begin
showmessage('pembeli dengan kode "' +KdPelanggan+ "' tidak ada');
Btreset.Click;
end
else
begin

```

```

if (application.MessageBox('Anda yakin data mau
diedit?', 'konfirmasi', MB_YESNO+MB_ICONINFORMATION)-IDYES) then
begin
with datamodule1.Query3 do
begin
close;
sql.Clear;
sql.Add('update PELANGGAN set
NmPelanggan-'+Quotedstr(EdnamaCus.Text)+' ,almtPelanggan-'+Quotedstr(edala
matcus.Text)+' ,TelpPelanggan-'+quotedstr(EdTelpCus.Text)+' where
KdPelanggan-'+Quotedstr(KdPelanggan)+'');
ExecSQL;
end;
showmessage('Data akan diedit');
Btreset.Click;
FdataPembeli.Activate;
end;
end;
end;
procedure TFDDataPembeli.BtHapusClick(Sender: TObject);
Var KdPelanggan:string;
begin
KdPelanggan := 'C' + EdKodeCus.Text;
with datamodule1.query2 do
begin
close;
sql.Clear;
sql.add('select * from PELANGGAN where
KdPelanggan-'+QuotedStr(KdPelanggan)+'');
open;
end;
if (datamodule1.Query2.RecordCount =0) then
begin
showmessage('Pembeli dengan kode "' +KdPelanggan+" tidak ada');
Btreset.Click;
end
else if (EdKodeCus.Text= "") then
application.MessageBox(' data diisi', 'konfirmasi', mb_ok)
else
begin
if (application.MessageBox('Anda yakin data mau
dihapus?', 'konfirmasi', MB_YESNO+MB_ICONINFORMATION)-IDYES) then
begin
with datamodule1.Query4 do
begin
close;

```

```

    sql.Clear;
    sql.add('delete from PELANGGAN where
KdPelanggan-'+Quotedstr(Kdpelanggan)+'');
    Execsql;
    end;
    showMessage('Data sudah dihapus');
    Btreset.Click;
    FDataPembeli.Activate;
    end;
end;
end;
end.

```

#### **Listing Program ( Form Password)**

```

unit UPassword;
interface
uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
    Dialogs, StdCtrls, ExtCtrls, jpeg, ImgList;
type
    Tpassword = class(TForm)
        EdUserID: TEdit;
        Label1: TLabel;
        Label2: TLabel;
        EdPassword: TEdit;
        Image1: TImage;
        BToK: TButton;
        Button2: TButton;
        Timer1: TTimer;
        BtReset: TButton;
        Image2: TImage;
        lbjam: TLabel;
        procedure Button2Click(Sender: TObject);
        procedure BToKClick(Sender: TObject);
        procedure BtResetClick(Sender: TObject);
        procedure Timer1Timer(Sender: TObject);
    private
        { Private declarations }
    public
        { Public declarations }
    end;
var
    fpassword: Tpassword;

```



```
implementation
uses UMenuUtama, ULaporanPersediaan, ULaporanPenjualan,
U_LaporanPembelian;
{SR *.dfm}
procedure Tfpasword.BToKClick(Sender: TObject);
begin
IF (EDPASSWORD.TEXT = 'SITI') and (EDUSERID.Text='OPIE') THEN
//menampilkan kotak pesan jika password benar
FmenuUtama.show
else if edpassword.Text = " then
application.MessageBox('Masukkan User Id dan Password terlebih
dahulu','Peringatan',MB_OK)
else
begin
//menampilkan kotak pesan jika password salah
application.MessageBox('Password anda salah','Perhatian',MB_OK);
eduserid.SetFocus;
end;
end;

procedure Tfpasword.Timer1Timer(Sender: TObject);
begin
lbjam.Caption:="--"+FormatDate'Time('dddd,d mmmm yyyy" " hh:mm:ss',Now);
end;
end.
```