

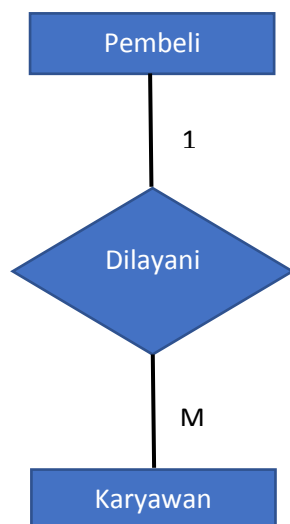
Studi Kasus:

Apotek Seger Waras ingin merubah model pembukuannya dengan komputerisasi maka diperlukan sebuah program yang dapat menampung data penjualan tersebut. Berikut ini adalah alur proses transaksi dalam apotek tersebut.

Transaksi pembelian

Pembeli datang ke apotek dilayani oleh karyawan, karyawan mengecek stok obat dan apabila terdapat obat yang diinginkan maka stok obat berkurang dan karyawan mencatat no kuitansi, pembeli memperoleh obat dan kuitansi.

ERD Apotek



Struktur Tabel :

Apotik Seger Waras, akan merancang 6 Tabel pada Database Apotiknya, yaitu terdiri :

1. Tabel Pembeli
2. Tabel Obat
3. Tabel Karyawan
4. Tabel Banyak
5. Tabel Login
6. Tabel Stok

Rancangan Tabel

Tabel Pembeli:

No	Field	Type	Size	Null	Index
1	No_nota_pembeli	Varchar	8	N	Primary Key
2	Nama_pembeli	Varchar	30	Y	
3	Total	Number	11		

Tabel Obat:

No	Field	Type	Size	Null	Index
1	Kode_obat	Varchar	8	N	Primary Key
2	Nama_obat	Varchar	30	N	
3	Jenis_obat	Varchar	8	N	
4	Keluhan	Varchar	50	N	

Tabel Karyawan:

No	Field	Type	Size	Null	Index
1	Nik	Varchar	8	N	Primary Key
2	Nama_karyawan	Varchar	30	N	
3	Alamat_karyawan	Varchar	50	N	
4	Bagian	Varchar	10	Y	

Tabel Banyak:

No	Field	Type	Size	Null	Index
1	No_nota	Varchar	8	N	Foreign Key
2	Kode_obat	Varchar	8	N	Foreign Key
3	Banyaknya	Number	9	N	
4	Sub_total	Number	9		

Tabel Login:

No	Field	Type	Size	Null	Index
1	Nik	Varchar	8	N	Foreign Key
2	Username	Varchar	20	N	Primary Key
3	Password	Number	8	N	

Tabel Stok:

No	Field	Type	Size	Null	Index
1	Kode_obat	Varchar	8	N	Foreign Key
2	Stok	Number	9	N	
3	Harga	Number	9	N	

**Tabel
Karyawan:**

Nik	Nama_karyawan	Alamat_karyawan	Bagian
18070101	Dewi	Boulevard Gading	Apoteker
18072502	Dini A	Jl Pengangsaan 2	Apoteker
17060102	Desi C	Jl Cakung Raya	Apoteker
17060103	Aris W	Jl Sunter Raya	Admin Gdg
17060104	Ajeng S	Jl Semper Raya	Accounting
17060105	Salma M	Jl Serdang Baru	Purchasing
17060106	Ahmad J	Jl SumurBatu	Kasir 1
17071107	Dedi S	Jl Cempaka Baru	Kasir 2
17090108	Dandi B	Jl Cempaka Wangi	Kasir 3
17060109	Fandi R	Jl Berlian 1	Marketing

Tabel Pembeli:

No_nota_pembeli	Nama_pembeli	Total
0142020	Angga	30,360
0242020	Ayu	87,500
0342020	Andi	50,348
0442020	Anto	79,552
0552020	Bambang	97,572
0652020	Susi	70,910
0752020	Erni	178,680
0862020	Esti	24,860
0962020	Zahlika	43,750
1062020	Zahra	7,091

Tabel Obat:

Kode_obat	Nama_obat	Jenis_obat	Keluhan
BIOIN60	BIOLYSIN 60ML	BOTOL	Memelihara daya tahan tubuh
CRVTEML	CURVIT CL EMUL	BOTOL	Meningkatkan nafsu makan'
BISOELIX	BISOLVON ELIX 60ML	BOTOL	Batuk berdahak radang
BISOFLU	BISOLVON FLU 60ML	BOTOL	Flu batuk berdahak
FRSFN	FARSIFEN 60 ML	BOTOL	Rematik tulang
BODREXAT	BODREX FLU ATT	BOTOL	Influenza batuk tidak berdahak
DCLNGEN	DECOLGEN SYR 60ML	BOTOL	sakit kepala, hidung tersumbat
DCLSIN	DECOLSIN SYR 60ML	BOTOL	Demam, bersin-bersin
CURMPLUS	CURCUMA PLUS DHA JRK 60ML	BOTOL	Menjaga daya tahan tubuh anak
CURMEMU	CURCUMA PLUS EMULSION STRW	BOTOL	Meningkatkan daya tahan tubuh

Tabel Banyak:

No_nota	Kode_obat	Banyaknya	Sub_total
0142020	BIOIN60	3	30,360
0242020	FRSFN	10	87,500
0342020	BISOELIX	2	50,348
0442020	CURMEMU	4	79,552
0552020	DCLSIN	6	97,572

0652020	BODREXAT	10	70,910
0752020	DCLNGEN	20	178,680
0862020	CURMPLUS	2	24,860
0962020	BODREX4	5	43,750
1062020	BODREXAT	8	7,091

Tabel Login:

Nik	Username	Password
1807001	Dewi	111
18072502	Dini	222
17060102	Desi	333
17060103	Aris	444
17060104	Ajeng	555
17060105	Salma	666
17060106	Ahmad	777
17071107	Dedi	888
17090108	Dandi	999
17060109	Fandi	1010

Tabel Stok:

Kode_obat	Stok	Harga
BIOIN60	50	10,120
CRVTEML	50	48,400
BISOELIX	100	25,174
BISOFLU	20	27,968
FRSFN	30	8,750
BODREXAT	50	7,091
DCLNGEN	70	8,934
DCLSIN	90	16,262
CURMPLUS	60	12,430
CURMEMU	150	19,888

Perancangan SQL

DDL (Data Definition Language)

```
CREATE TABLE karyawan(  
    nik VARCHAR(8) NOT NULL,  
    nama_karyawan VARCHAR(30) NOT NULL,  
    alamat_karyawan VARCHAR(50) NOT NULL,  
    bagian VARCHAR(10) default NULL,  
    constraint pk_nik primary key(nik)  
);
```

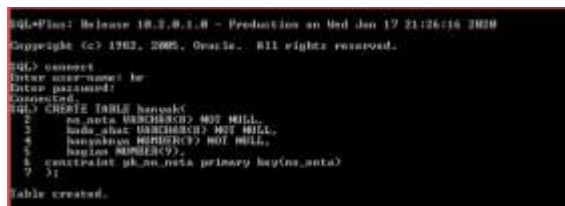
```
CREATE TABLE pembeli(  
    no_nota_pembeli VARCHAR(8) NOT NULL,  
    nama_pembeli VARCHAR(30) default NULL,  
    total NUMBER(11),  
    constraint pk_no_nota_pembeli primary key(no_nota_pembeli)  
);
```

```
CREATE TABLE obat(  
    kode_obat VARCHAR(8) NOT NULL,  
    nama_obat VARCHAR(30) NOT NULL,  
    jenis_obat VARCHAR(8) NOT NULL,  
    keluhan VARCHAR(30) NOT NULL,  
    constraint pk_kode_obat primary key(kode_obat)  
);
```

```

CREATE TABLE banyak(
    no_nota VARCHAR(8) NOT NULL,
    kode_obat VARCHAR(8) NOT NULL,
    banyaknya NUMBER(9) NOT NULL,
    sub_total NUMBER(9),
    constraint pk_no_nota primary key(no_nota)
);

```



```

SQL> /
SQL*Plus: Release 10.2.0.1.0 - Production on Wed Jan 17 21:26:16 2007
Copyright (c) 1982, 2006, Oracle. All rights reserved.

SQL> connect
Enter user-name: hr
Enter password:
Connected.

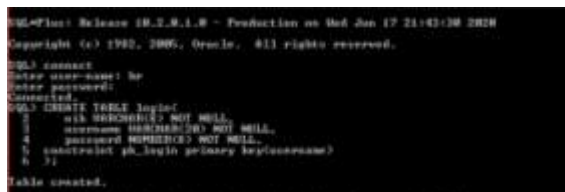
SQL> CREATE TABLE banyak(
2     no_nota VARCHAR(8) NOT NULL,
3     kode_obat VARCHAR(8) NOT NULL,
4     banyaknya NUMBER(9) NOT NULL,
5     sub_total NUMBER(9),
6     constraint pk_no_nota primary key(no_nota)
7 );
Table created.

```

```

CREATE TABLE login(
    nik VARCHAR(8) NOT NULL,
    username VARCHAR(20) NOT NULL,
    password NUMBER(8) NOT NULL,
    constraint fk_nik foreign key(nik) references nik(nik),
    constraint pk_username primary key(username)
);

```



```

SQL> /
SQL*Plus: Release 10.2.0.1.0 - Production on Wed Jan 17 21:43:06 2007
Copyright (c) 1982, 2006, Oracle. All rights reserved.

SQL> connect
Enter user-name: hr
Enter password:
Connected.

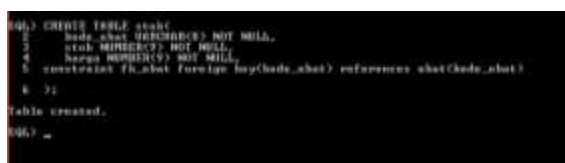
SQL> CREATE TABLE login(
2     nik VARCHAR(8) NOT NULL,
3     username VARCHAR(20) NOT NULL,
4     password NUMBER(8) NOT NULL,
5     constraint fk_nik foreign key(nik) references nik(nik),
6     constraint pk_username primary key(username)
7 );
Table created.

```

```

CREATE TABLE stok(
    kode_obat VARCHAR(8) NOT NULL,
    stok NUMBER(9) NOT NULL,
    harga NUMBER(9) NOT NULL,
    constraint fk_obat foreign key(kode_obat) references obat(kode_obat)
);

```



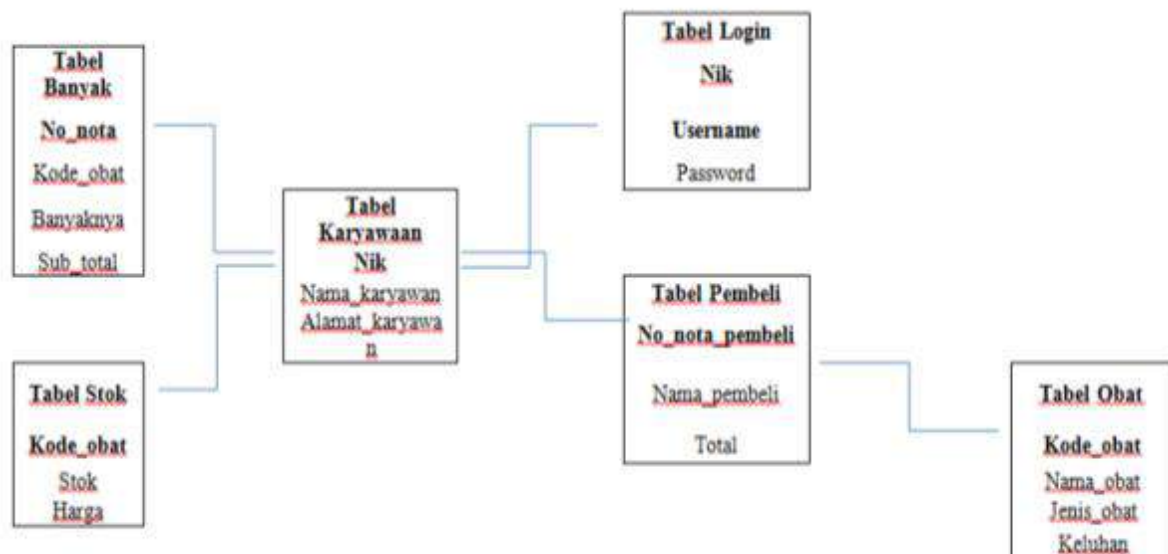
```

SQL> CREATE TABLE stok(
2     kode_obat VARCHAR(8) NOT NULL,
3     stok NUMBER(9) NOT NULL,
4     harga NUMBER(9) NOT NULL,
5     constraint fk_obat foreign key(kode_obat) references obat(kode_obat)
6 );
Table created.
SQL> _

```

Relasi Tabel

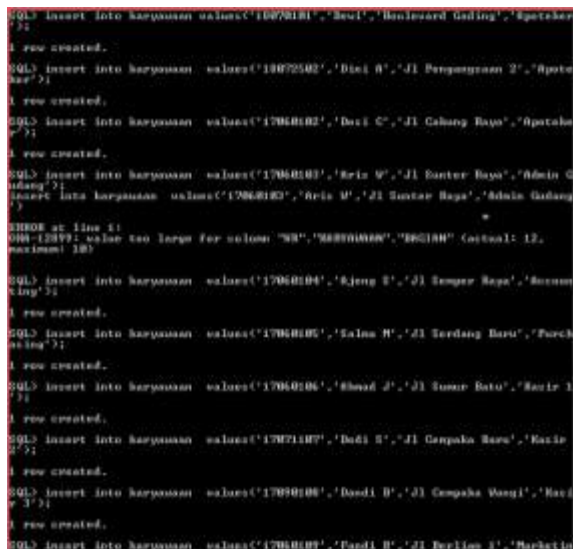
- Karyawan Melayani Pembeli
Tabel Utama : Karyawan
Tabel Kedua : Pembeli
Relationship : One-to-many (1:M)
- Pembeli Membeli Obat
Tabel Utama : Pembeli
Tabel Kedua : Obat
Relationship : Many-to-many (M:M)
- Karyawan Melakukan Stok
Tabel Utama : Karyawan
Tabel Kedua : Stok
Relationship : One-to-M (1:M)
- Karyawan Melakukan Login
Tabel Utama : Karyawan
Tabel Kedua : Login
Relationship : One-to-one (1:1)
- Karyawan Mengarsip Banyak
Tabel Utama : Karyawan
Tabel Kedua : Banyak
Relationship : One-to-Many (1:M)



Pengisian Tabel

DML (Data Manipulation Language)

```
insert into karyawan values('18070101','Dewi','Boulevard Gading','Apoteker');
insert into karyawan values('18072502','Dini A','Jl Pengangsaan 2','Apoteker');
insert into karyawan values('17060102','Desi C','Jl Cakung Raya','Apoteker');
insert into karyawan values('17060103','Aris W','Jl Sunter Raya','Admin Gdg');
insert into karyawan values('17060104','Ajeng S','Jl Semper Raya','Accounting');
insert into karyawan values('17060105','Salma M','Jl Serdang Baru','Purchasing');
insert into karyawan values('17060106','Ahmad J','Jl Sumur Batu','Kasir 1');
insert into karyawan values('17071107','Dedi S','Jl Cempaka Baru','Kasir 2');
insert into karyawan values('17090108','Dandi B','Jl Cempaka Wangi','Kasir 3');
insert into karyawan values('17060109','Fandi R','Jl Berlian 1','Marketing');
```



```
SQL> insert into karyawan values('18070101','Dewi','Boulevard Gading','Apoteker');
1 row created.
SQL> insert into karyawan values('18072502','Dini A','Jl Pengangsaan 2','Apoteker');
1 row created.
SQL> insert into karyawan values('17060102','Desi C','Jl Cakung Raya','Apoteker');
1 row created.
SQL> insert into karyawan values('17060103','Aris W','Jl Sunter Raya','Admin Gdg');
insert into karyawan values('17060104','Ajeng S','Jl Semper Raya','Accounting');
ERROR at line 1:
ORA-01891: value too large for column "NR"."NATIONAL_NUMBER" (actual: 12, maximum: 10)
SQL> insert into karyawan values('17060104','Ajeng S','Jl Semper Raya','Accounting');
1 row created.
SQL> insert into karyawan values('17060105','Salma M','Jl Serdang Baru','Purchasing');
1 row created.
SQL> insert into karyawan values('17060106','Ahmad J','Jl Sumur Batu','Kasir 1');
1 row created.
SQL> insert into karyawan values('17071107','Dedi S','Jl Cempaka Baru','Kasir 2');
1 row created.
SQL> insert into karyawan values('17090108','Dandi B','Jl Cempaka Wangi','Kasir 3');
1 row created.
SQL> insert into karyawan values('17060109','Fandi R','Jl Berlian 1','Marketing');
```

```
insert into pembeli values('0142020','Angga','30360');
insert into pembeli values('0242020','Ayu','87500');
insert into pembeli values('0342020','Andi','50348');
insert into pembeli values('0442020','Anto','79552');
insert into pembeli values('0552020','Bambang','97572');
insert into pembeli values('0652020','Susi','70910');
insert into pembeli values('0752020','Erni','178680');
insert into pembeli values('0862020','Esti','24860');
```

insert into pembeli values('0962020','Zahluka','43750');

insert into pembeli values('1062020','Zahra','7091');

```
SQL> insert into pembeli values('0962020','Zahluka','43750');
1 row created.
SQL> insert into pembeli values('0962020','Zahra','7091');
1 row created.
SQL> insert into pembeli values('0962020','Zahra','7091');
1 row created.
SQL> insert into pembeli values('0962020','Zahra','7091');
1 row created.
SQL> insert into pembeli values('0962020','Zahra','7091');
1 row created.
SQL> insert into pembeli values('0962020','Zahra','7091');
1 row created.
SQL> insert into pembeli values('0962020','Zahra','7091');
1 row created.
SQL> insert into pembeli values('0962020','Zahra','7091');
1 row created.
SQL> insert into pembeli values('0962020','Zahra','7091');
1 row created.
SQL> insert into pembeli values('0962020','Zahra','7091');
1 row created.
```

insert into obat values('BIOIN60','BIOLYSIN 60ML','BOTOL','Memelihara daya tahan tubuh');

insert into obat values('CRVTEML','CURVIT CL EMUL ','BOTOL','Meningkatkan nafsu makan');

insert into obat values('BISOELIX','BISOLVON ELIX 60ML','BOTOL','Batuk berdahak radang');

insert into obat values('BISOFLU','BISOLVON FLU 60ML','BOTOL','Flu batuk berdahak');

insert into obat values('FRSFN','FARSIFEN 60 ML ','BOTOL','Rematik tulang');

insert into obat values('BODREXAT','BODREX FLU ATT','BOTOL','Influenza batuk tidak berdahak');

insert into obat values('DCLNGEN','DECOLGEN SYR 60ML ','BOTOL','Msakit kepala,hidung tersumbat');

insert into obat values('DCLSIN','DECOLSIN SYR 60ML ','BOTOL','Demam, bersin-bersin');

insert into obat values('CURMPLUS','CURCUMA PLUS DHA JRK 60ML','BOTOL','Menjaga daya tahan tubuh anak');

insert into obat values('CURMEMU','CURCUMA PLUS EMULSION STRW','BOTOL','Meningkatkan daya tahan tubuh');

```
SQL> insert into obat values('BIOIN60','BIOLYSIN 60ML','BOTOL','Memelihara daya tahan tubuh');
1 row created.
SQL> insert into obat values('CRVTEML','CURVIT CL EMUL ','BOTOL','Meningkatkan nafsu makan');
1 row created.
SQL> insert into obat values('BISOELIX','BISOLVON ELIX 60ML','BOTOL','Batuk berdahak radang');
1 row created.
SQL> insert into obat values('BISOFLU','BISOLVON FLU 60ML','BOTOL','Flu batuk berdahak');
1 row created.
SQL> insert into obat values('FRSFN','FARSIFEN 60 ML ','BOTOL','Rematik tulang');
1 row created.
SQL> insert into obat values('BODREXAT','BODREX FLU ATT','BOTOL','Influenza batuk tidak berdahak');
1 row created.
SQL> insert into obat values('DCLNGEN','DECOLGEN SYR 60ML ','BOTOL','Msakit kepala,hidung tersumbat');
1 row created.
SQL> insert into obat values('DCLSIN','DECOLSIN SYR 60ML ','BOTOL','Demam, bersin-bersin');
1 row created.
SQL> insert into obat values('CURMPLUS','CURCUMA PLUS DHA JRK 60ML','BOTOL','Menjaga daya tahan tubuh anak');
1 row created.
SQL> insert into obat values('CURMEMU','CURCUMA PLUS EMULSION STRW','BOTOL','Meningkatkan daya tahan tubuh');
1 row created.
```

```

insert into banyak values('0142020','BIOIN60','3','30360');
insert into banyak values('0242020','CRVTEML','10','87500');
insert into banyak values('0342020','BISOELIX','2','50348');
insert into banyak values('0442020','BISOFLU','4','79552');
insert into banyak values('0552020','FRSFN','6','97572');
insert into banyak values('0652020','BODREXAT','10','70910');
insert into banyak values('0752020','DCLNGEN','20','178680');
insert into banyak values('0862020','DCLSIN','2','24860');
insert into banyak values('0962020','CURMPLUS','5','43750');
insert into banyak values('1062020','CURMEMU','8','7091');

```



```

SQL> insert into banyak values('0142020','BIOIN60','3','30360');
insert into banyak values('0242020','CRVTEML','10','87500');
SQL>
SQL> insert into banyak values('0342020','BISOELIX','2','50348');
1 row created.
SQL> insert into banyak values('0442020','BISOFLU','4','79552');
1 row created.
SQL> insert into banyak values('0552020','FRSFN','6','97572');
1 row created.
SQL> insert into banyak values('0652020','BODREXAT','10','70910');
1 row created.
SQL> insert into banyak values('0752020','DCLNGEN','20','178680');
1 row created.
SQL> insert into banyak values('0862020','DCLSIN','2','24860');
1 row created.
SQL> insert into banyak values('0962020','CURMPLUS','5','43750');
1 row created.
SQL> insert into banyak values('1062020','CURMEMU','8','7091');
1 row created.
SQL>

```

```

insert into stok values('BIOIN60','50','10120');
insert into stok values('CRVTEML','50','48400');
insert into stok values('BISOELIX','100','25174');
insert into stok values('BISOFLU','20','27968');
insert into stok values('FRSFN','30','8750');
insert into stok values('BODREXAT','50','7091');
insert into stok values('DCLNGEN','70','8934');
insert into stok values('DCLSIN','90','16262');
insert into stok values('CURMPLUS','60','12430');
insert into stok values('CURMEMU','150','19888');

```

```

1 row created.
SQL> insert into stak values('COTRUS','50','40400');
1 row created.
SQL> insert into stak values('BIDOLLE','100','25174');
1 row created.
SQL> insert into stak values('BIDOLLE','20','27768');
1 row created.
SQL> insert into stak values('FREDFW','30','8758');
1 row created.
SQL> insert into stak values('BODDCHAT','50','7091');
1 row created.
SQL> insert into stak values('BCLAGEN','70','8934');
1 row created.
SQL> insert into stak values('BCLER','90','16362');
1 row created.
SQL> insert into stak values('CHOPPLAS','60','12430');
1 row created.
SQL> insert into stak values('CHOPPEPU','150','19088');
1 row created.
SQL>

```

```

insert into login values('1807001','Dewi ','111');
insert into login values('18072502','Dini','222');
insert into login values('17060102','Desi','333');
insert into login values('17060103','Aris','444');
insert into login values('17060104','Ajeng','555');
insert into login values('17060105','Salma','666');
insert into login values('17060106','Ahmad','777');
insert into login values('17071107','Dedi','888');
insert into login values('17090108','Dandi','999');
insert into login values('17060109','Fandi','1010');

```

```

1 row created.
SQL> insert into login values('17060102','Desi','333');
insert into login values('17060102','Desi','333');
ERROR at line 1:
ORA-12859: value too large for column "HR"."LOGIN" (actual: 9, maximum: 0)

SQL> insert into login values('17060103','Aris','444');
1 row created.
SQL> insert into login values('17060104','Ajeng','555');
1 row created.
SQL> insert into login values('17060105','Salma','666');
1 row created.
SQL> insert into login values('17060106','Ahmad','777');
1 row created.
SQL> insert into login values('17071107','Dedi','888');
1 row created.
SQL> insert into login values('17090108','Dandi','999');
1 row created.
SQL> insert into login values('17060109','Fandi','1010');insert into login values('17060102','Desi','333');
insert into login values('17060109','Fandi','1010');insert into login values('17060102','Desi','333');
ERROR at line 1:
ORA-00911: invalid character

SQL> insert into login values('17060109','Fandi','1010');
1 row created.
SQL> insert into login values('17060102','Desi','333');
1 row created.

```

Report Apotik Seger Waras

-Report Pembeli-

Logout

PEMBELI / KARYAWAN / OBAT / STOK / LOGIN / BANYAK

PEMBELI

PEMBELI

Reset

Search

Options 15

Go

No. Data Pembeli *	Total	Nama Pembeli
8142020	30060	Angga
8242020	87500	Ayu
8342020	50348	Andi
8442020	79652	Arto
8552020	87572	Bambang
8652020	70918	Budi
8752020	178880	Eti
882020	24880	Eti
892020	43750	Zahira
1002020	7091	Zahra

View Data

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Edit Application

Edit Page 1

Create

Session

Debug

Show Edit Links

Activate Windows
Go to PC settings to activate Windows

-Report Karyawan-

Logout

PEMBELI / KARYAWAN / OBAT / STOK / LOGIN / BANYAK

KARYAWAN

KARYAWAN

Reset

Search

Options 15

Go

No *	Depart	Nama Karyawan	Nama Karyawan
17999102	Apoteker	A C Gunung Raya	Desi C
17999103	Admin Gbg	A Sunter Raya	Arto W
17999104	Accounting	A Sempur Raya	Apeng B
17999105	Purchasing	A Sempur Baru	Sarna M
17999106	Kasir 1	A Sunter Baru	Anwar J
17999109	Marketing	A Berikan 1	Fandi R
17971107	Kasir 2	A Cempaka Baru	Dadi B
17999108	Kasir 3	A Cempaka Wang	Dandi B
18079101	Apoteker	Southeast Oeding	Dani
18072902	Apoteker	A Pengarsaan 2	Desi A

View Data

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Edit Application

Edit Page 2

Create

Session

Debug

Show Edit Links

Activate Windows
Go to PC settings to activate Windows

-Report Obat-

				Logout
				PEMBELI KARYAWAN OBAT STOK LOGIN BANYAK
OBAT				
OBAT				Reset
Search	Obat	15	Go	
Kode Obat #	Revisi	Jenis Obat	Nama Obat	
BORW0	Meningkatkan daya tahan tubuh	BOTOL	BOLYSH 60ML	
BIOELIX	Batu berakut radang	BOTOL	BISOLVON ELIX 80ML	
BIOFLU	Flu batuk berakut	BOTOL	BISOLVON FLU 60ML	
BOIREXAT	Influenza batuk tidak berakut	BOTOL	BOIREX FLU AT7	
CRYTEM	Meningkatkan nafsu makan	BOTOL	CURVIT CL 80ML	
CURMEMU	Meningkatkan daya tahan tubuh	BOTOL	CURCUMA PLUS EMULSION STRW	
CURMPLUS	Meningkatkan daya tahan tubuh anak	BOTOL	CURCUMA PLUS DHA JRK 80ML	
DECLONEN	Masak kepala hidung tersumbat	BOTOL	DECLONEN SYR 60ML	
DECLON	Demam, bersin-bersin	BOTOL	DECLONEN SYR 60ML	
PRDPN	Ramuk tulang	BOTOL	FARDPEN 80 ML	
Reset Obat				1 - 10

-Report Stok-

				Logout
				PEMBELI KARYAWAN OBAT STOK LOGIN BANYAK
STOK				
STOK				Reset
Search	Obat	15	Go	
Kode Obat #	Uraian	Stok		
BORW0	10120	58		
BORW0	10120	58		
BIOELIX	20174	100		
BIOELIX	20174	100		
BIOFLU	27985	20		
BIOFLU	27985	20		
BOIREXAT	7991	50		
BOIREXAT	7991	50		
CRYTEM	40497	50		
CRYTEM	40497	50		
CURMEMU	19885	150		
CURMEMU	19885	150		
CURMPLUS	12433	80		
CURMPLUS	12433	80		
DECLONEN	8934	70		
Reset Obat				Obat 1 - 15 of 28 Reset

-Report Login-

LOGIN

PEMBELI

KARYAWAN

OBAT

STOK

LOGIN

BANYAK

Logout

LOGIN

Reset

Search

Display: 15

Go

No	Username	Password
17988102	333	Dev
17988103	444	Aris
17988104	555	Ayung
17988105	666	Bama
17988106	777	Armad
17988109	888	Farah
17971107	888	Dev
17992108	999	Dani
1887997	111	Dev
1887992	222	Dini

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Session

Setting

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-Report Banyak-

BANYAK

PEMBELI

KARYAWAN

OBAT

STOK

LOGIN

BANYAK

Logout

BANYAK

Reset

Search

Display: 15

Go

No	No. Obat	Sub Total	BarangKasus	Kode Obat
8142820	30360	3	810N88	
8242820	87500	10	CRVTEM	
8342820	90348	2	880EUX	
8442820	79952	4	880FLU	
8542820	97572	6	FRSFN	
8642820	70910	10	800REKAT	
8742820	178080	20	OCLNGEN	
8842820	24090	2	OCLSN	
8942820	43790	5	CURMPLUS	
1862820	7091	6	CURMPLU	

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