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Latihan !!!

Buatlah tabel-tabel untuk sistem persediaan yang paling sederhana berikut :

Create table barang (Kode\_brg char(3) primary key, nama\_brg char(15), satuan char(10), jml\_stok int(5));

Create table jual (kode\_jual char(2) primary key, nm\_konsumen char(15), almt\_kons char(20), kota\_kons char(15), tgl\_jual date, kode\_brg char(3), jml\_jual int(4));

Create table beli (kode\_beli char(2) primary key, nm\_supplier char(15), tgl\_beli date, kode\_brg char(3), jml\_beli int(4));

Kerjakan kegiatan berikut :

1. Isikan tabel barang dengan contoh record-record berikut :

Kode_brg	Nama_brg	Satuan	Jml_stok
111	Sepatu Merk A	Pasang	30
222	Sandal Merk B	Pasang	25
333	Jaket	Buah	40
....	....	.....	....

2. Buatlah store procedure untuk memasukan (insert) data penjualan di tabel jual apabila terjadi transaksi penjualan.
3. Buatlah store procedure untuk memasukan (insert) data pembelian (pengadaan) barang di tabel beli apabila terjadi transaksi pembelian.
4. Buatlah trigger-trigger untuk meng-update jml\_stok barang apabila terjadi transaksi berikut :
  - a. Apabila terjadi transaksi penjualan (transaksi insert ditabel jual) untuk kode\_brg tertentu, maka jml\_stok ditabel barang dikurangi dengan jml\_jual berdasarkan kode\_brg nya.
  - b. Apabila terjadi pembatalan transaksi (data jual) untuk kode\_brg tertentu ditabel jual dihapus, maka jml\_stok dikembalikan.
  - c. Apabila terjadi transaksi pembelian (transaksi insert ditabel beli) untuk kode\_brg tertentu, maka jml\_stok ditabel ditambah dengan jml\_beli berdasarkan kode\_brg nya.
  - d. Apabila terjadi pembatalan transaksi (data beli) untuk kode\_brg tertentu ditabel beli dihapus, maka jml\_stok dikembalikan.

## TUGAS !!!

Untuk Soal No. 5, coba saudara buat triggernya

5. A. Apabila terjadi perubahan data jual untuk kode\_brg tertentu, maka jml\_stok disesuaikan.  
B. Apabila terjadi perubahan data beli untuk kode\_brg tertentu, maka jml\_stok disesuaikan.

Jawaban

No. 1

```
Mysql>insert into barang values ('111','Sepatu','Pasang',30);  
dst..untuk recod ke 2, 3, 4, dan 5
```

No. 2

```
Mysql>create procedure t_jual (xkode_jual char(2),xnm_kons char(15),xalmt_kons char(20),xkota char(15),xtgl_jual date,xkode_brg char(3),xjml_jual int)  
-> begin  
-> insert into jual values(xkode_jual,xnm_kons,xalmt_kons,xkota,xtgl_jual,xkode_brg,xjml_jual);  
-> select * from jual;  
-> end  
-> //
```

No. 3

```
Mysql>create procedure t_beli (xkode_beli char(2),xnm_supplier char(15),xtgl_beli date,xkode_brg char(3),xjml_beli int)  
-> begin  
-> insert into beli values(xkode_beli,xnm_supplier,xtgl_beli,xkode_brg,xjml_beli);  
-> select * from beli;  
-> end  
-> //
```

No. 4.(a)

Mysql> create trigger i\_jual after insert on jual for each row

-> begin

-> update barang set jml\_stok = jml\_stok - new.jml\_jual where kode\_brg=new.kode\_brg;

-> end

-> //

Mysql> call t\_jual('J1','joko','jl. anggrek','solo','2022/06/23','111',5)//

kode_jual	nm_konsumen	almt_kons	kota_kons	tgl_jual	kode_brg	jml_jual
J1	joko	jl. anggrek	solo	2022-06-23	111	5

1 row in set (0.01 sec)

Mysql> select \* from barang//

Kode_brg	nama_brg	satuan	jml_stok
111	Sepatu	Pasang	25
222	Sandal	Pasang	35
333	Kaos	buah	20
444	Topi	buah	10
555	Jaket	buah	25

5 rows in set (0.00 sec)

No. 4.(b)

Mysql> create trigger h\_jual after delete on jual for each row

-> begin

-> update barang set jml\_stok = jml\_stok + old.jml\_jual where kode\_brg=old.kode\_brg;

-> end

-> //

```
Mysql>delete from jual where kode_brg='111'//
Query OK, 1 row affected (0.02 sec)
```

```
mysql> select * from jual//
Empty set (0.00 sec)
```

```
mysql> select * from barang//
```

Kode_brg	nama_brg	satuan	jml_stok
111	Sepatu	Pasang	30
222	Sandal	Pasang	35
333	Kaos	buah	20
444	Topi	buah	10
555	Jaket	buah	25

5 rows in set (0.00 sec)

No. 4.(c)

```
Mysql>create trigger i_beli after insert on beli for each row
```

```
-> begin
-> update barang set jml_stok = jml_stok + new.jml_beli where kode_brg=new.kode_brg;
-> end
-> //
```

```
Mysql>call t_beli('b1','PT. Abadi','2022/06/23','111',10)//
```

kode_beli	nm_supplier	tgl_beli	kode_brg	jml_beli
b1	PT. Abadi	2022-06-23	111	10

1 row in set (0.01 sec)

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> select * from barang//
```

Kode_brg	nama_brg	satuan	jml_stok
111	Sepatu	Pasang	<b>40</b>
222	Sandal	Pasang	35
333	Kaos	buah	20
444	Topi	buah	10
555	Jaket	buah	25

5 rows in set (0.00 sec)

No. 4.(d)

```
Mysql>create trigger h_beli after delete on beli for each row
```

```
-> begin
```

```
-> update barang set jml_stok = jml_stok - old.jml_beli where kode_brg=old.kode_brg;
```

```
-> end
```

```
-> //
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> delete from beli where kode_brg='111'//
```

Query OK, 1 row affected (0.02 sec)

```
mysql> select * from beli//
```

Empty set (0.00 sec)

```
mysql> select * from barang//
```

Kode_brg	nama_brg	satuan	jml_stok
111	Sepatu	Pasang	<b>30</b>
222	Sandal	Pasang	35
333	Kaos	buah	20
444	Topi	buah	10
555	Jaket	buah	25

```
+.....+.....+.....+.....+
5 rows in set (0.00 sec)
```

## Jawaban Tugas No 5 A&B

### 5 A .

MariaDB [bd\_tgs13]> create trigger u\_jual after update on jual for each row

-> begin

-> update barang set jml\_stok = jml\_stok + old.jml\_jual - new.jml\_jual where kode\_brg=old.kode\_brg;

-> end

-> //

Query OK, 0 rows affected (0.030 sec)

```
MariaDB [bd_tgs13]>call t_jual('B1','Nida','Jl. Gatot Subroto','Semarang',now(),'111',8)//
+-----+-----+-----+-----+-----+-----+
| kode_jual | nm_konsumen | almt_kons          | kota_kons | tgl_jual   | kode_brg | jml_jual |
+-----+-----+-----+-----+-----+-----+
| B1        | Nida        | Jl. Gatot Subroto  | Semarang  | 2022-06-29 | 111      | 8        |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.081 sec)
```

Query OK, 2 rows affected, 1 warning (0.088 sec)

MariaDB [bd\_tgs13]> update jual set jml\_jual=4 where kode\_brg=111//

Query OK, 1 row affected (0.011 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [bd\_tgs13]> select \* from jual//

```
+-----+-----+-----+-----+-----+-----+
| kode_jual | nm_konsumen | almt_kons          | kota_kons | tgl_jual   | kode_brg | jml_jual |
+-----+-----+-----+-----+-----+-----+
| B1        | Nida        | Jl. Gatot Subroto  | Semarang  | 2022-06-29 | 111      | 4        |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

MariaDB [bd\_tgs13]> select \* from barang//

```
+-----+-----+-----+-----+
| Kode_brg | nama_brg      | satuan | jml_stok |
+-----+-----+-----+-----+
| 111      | Sepatu Merk A | Pasang | 21       |
| 222      | Sandal Merk B | Pasang | 25       |
| 333      | Jaket         | Buah   | 40       |
| 444      | baju         | buah   | 20       |
+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

## 5 B.

MariaDB [bd\_tgs13]> create trigger u\_beli after update on beli for each row

-> begin

-> update barang set jml\_stok = jml\_stok - old.jml\_beli + new.jml\_beli where kode\_brg=old.kode\_brg;

-> end

-> //

Query OK, 0 rows affected (0.032 sec)

```
MariaDB [bd_tgs13]> call t_beli('C1','PT. Santosa Jaya',now(),'111',15)//
```

kode_beli	nm_supplier	tgl_beli	kode_brg	jml_beli
C1	PT. Santosa Jay	2022-06-29	111	15

1 row in set (0.016 sec)

Query OK, 2 rows affected, 2 warnings (0.036 sec)

```
MariaDB [bd_tgs13]> select * from barang//
```

Kode_brg	nama_brg	satuan	jml_stok
111	Sepatu Merk A	Pasang	36
222	Sandal Merk B	Pasang	25
333	Jaket	Buah	40
444	baju	buah	20

4 rows in set (0.001 sec)

```

MariaDB [bd_tgs13]> create trigger u_beli after update on beli for each row
-> begin
-> update barang set jml_stok = jml_stok - old.jml_beli + new.jml_beli where kode_brg=old.kode_brg;
-> end
-> //

```

Query OK, 0 rows affected (0.028 sec)

```

MariaDB [bd_tgs13]> update beli set jml_beli=7 where kode_brg=111//

```

Query OK, 1 row affected (0.011 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```

MariaDB [bd_tgs13]> select * from beli//

```

kode_beli	nm_supplier	tgl_beli	kode_brg	jml_beli
C1	PT. Santosa Jay	2022-06-29	111	7

1 row in set (0.002 sec)

```

MariaDB [bd_tgs13]> select * from barang//

```

Kode_brg	nama_brg	satuan	jml_stok
111	Sepatu Merk A	Pasang	28
222	Sandal Merk B	Pasang	25
333	Jaket	Buah	40
444	baju	buah	20

4 rows in set (0.001 sec)