LAB 5

PERTEMUAN 10

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RELASI TABEL DAN LOCALHOST
REFERENCIAL INTEGRITY

1. ISI DATA PADA TABEL :

KOTA, Barang, Cust, pegawai, supplier

Kota :

K1	PEKALONGAN	JAWA TENGAH
K2	BATANG	JAWA TENGAH
K3	JAKARTA	DKI JAKARTA
K4	BANDUNG	JAWA BARAT

```
mysql> insert into kota values ("K1","PEKALONGAN","JAWA TENGAH");
Query OK, 1 row affected (0.04 sec)

mysql> insert into kota values ("K2","BATANG","JAWA TENGAH");
Query OK, 1 row affected (0.04 sec)

mysql> insert into kota values ("K3","JAKARTA","DKI JAKARTA");
Query OK, 1 row affected (0.02 sec)

mysql> insert into kota values ("K4","BANDUNG","JAWA BARAT");
Query OK, 1 row affected (0.04 sec)
```

```
mysql> SELECT * FROM KOTA;
+-------+------------+--------------+
| kota  | namakota   | propinsi     |
+-------+------------+--------------+
| K1    | PEKALONGAN | JAWA TENGAH  |
| K2    | BATANG     | JAWA TENGAH  |
| K3    | JAKARTA    | DKI JAKARTA  |
| K4    | BANDUNG    | JAWA BARAT   |
+-------+------------+--------------+
```

Barang :

BR-001	KERAMIK MULIA	KON. 60 FIT	780.000.000
BR-002	GRANIT	KON. 90 FIT	1.200.000.000

```
mysql> insert into barang values ("BR-001","KERAMIK MULIA","KON. 60 FIT",
    -> 780000000);
Query OK, 1 row affected (0.05 sec)

mysql> insert into barang values ("BR-002","GRANIT","KON. 90 FIT",
    -> 1200000000);
Query OK, 1 row affected (0.06 sec)

mysql> SELECT *  FROM BARANG;
+--------+---------------+-------------+------------+
| kdbrg  | nmbrg         | satuan      | harga      |
+--------+---------------+-------------+------------+
| BR-001 | KERAMIK MULIA | KON. 60 FIT |  780000000 |
| BR-002 | GRANIT        | KON. 90 FIT | 1200000000 |
+--------+---------------+-------------+------------+
2 rows in set (0.00 sec)
```

Cust :

C001	TOKO KERAMIK SURYA	JL MERPATI	K1
C002	TOKO ALAT BANGUNAN	JL. MERAK	K2

```
ysql> insert into cust values ("C001","TOKO KERAMIK SURYA","JL MERPATI","K1");
uery OK, 1 row affected (0.03 sec)

ysql> insert into cust values ("C002","TOKO ALAT BANGUNAN","JL MERAK","K2");
uery OK, 1 row affected (0.04 sec)
```

```
mysql> SELECT * FROM CUST;
+--------+--------------------+------------+-----------+
| kdcust | nmcust             | almtcust   | kotacust  |
+--------+--------------------+------------+-----------+
| C001   | TOKO KERAMIK SURYA | JL MERPATI | K1        |
| C002   | TOKO ALAT BANGUNAN | JL MERAK   | K2        |
+--------+--------------------+------------+-----------+
```

PEGAWAI:

P001	BUDIWALUYO	JL PENI	K1
P002	SARI PUSPA	JL. CERMAI	K2

```
mysql> insert into pegawai values ("P001","BUDIWALUYO","JL PENI","K1");
Query OK, 1 row affected (0.03 sec)

mysql> insert into pegawai values ("P002","SARI PUSPA","JL CERMAI","K2");
Query OK, 1 row affected (0.04 sec)

mysql> SELECT * FROM PEGAWAI;
+-------+------------+-----------+---------+
| kdpeg | nmpeg      | almtpeg   | kotapeg |
+-------+------------+-----------+---------+
| P001  | BUDIWALUYO | JL PENI   | K1      |
| P002  | SARI PUSPA | JL CERMAI | K2      |
+-------+------------+-----------+---------+
2 rows in set (0.00 sec)
```

SUPPLIER :

S001	AHMAT	JL MERDEKA	K3
S002	JOKO	JL CI AMLAS	K4

```
mysql> insert into SUPPLIER values ("S001","AHMAT","JL MERDEKA","K3");
Query OK, 1 row affected (0.03 sec)

mysql> insert into SUPPLIER values ("S002","JOKO","JL CI AMLAS","K4");
Query OK, 1 row affected (0.03 sec)

mysql> SELECT * FROM SUPPLIER;
+---------+---------+-------------+-----------+
| kdsuppl | nmsuppl | almtsuppl   | kotasuppl |
+---------+---------+-------------+-----------+
| S001    | AHMAT   | JL MERDEKA  | K3        |
| S002    | JOKO    | JL CI AMLAS | K4        |
+---------+---------+-------------+-----------+
2 rows in set (0.00 sec)

mysql> _
```

2. ISI DATA TRANSAKSI BELI :

TRANSBELI :

NT-B-0001	S001	BR-002	3600	2	2.400.000.000

```
mysql> insert into TRANSBELI values ("NT-B-0001","S001","BR-002",3600,2,
    -> 2400000000);
Query OK, 1 row affected, 1 warning (0.03 sec)

mysql> SELECT * FROM TRANSBELI;
+-----------+---------+--------+------+------+------------+
| nofaktur  | kdsuppl | kdbrg  | qty  | jml  | hargabeli  |
+-----------+---------+--------+------+------+------------+
| NT-B-0001 | S001    | BR-002 | 3600 |    2 | 2147483647 |
+-----------+---------+--------+------+------+------------+
```

NILAI HARGABELI SALAH HARUS DI PERBAIKI DENGAN:

```
mysql> alter table transbeli modify hargabeli bigint (13) unsigned;
Query OK, 1 row affected (0.31 sec)
Records: 1  Duplicates: 0  Warnings: 0

mysql> desc transbeli;
+-----------+---------------------+------+-----+---------+-------+
| Field     | Type                | Null | Key | Default | Extra |
+-----------+---------------------+------+-----+---------+-------+
| nofaktur  | char(10)            | NO   | PRI | NULL    |       |
| kdsuppl   | char(10)            | YES  | MUL | NULL    |       |
| kdbrg     | char(10)            | YES  | MUL | NULL    |       |
| qty       | int(8)              | YES  |     | NULL    |       |
| jml       | int(10)             | YES  |     | NULL    |       |
| hargabeli | bigint(13) unsigned | YES  |     | NULL    |       |
+-----------+---------------------+------+-----+---------+-------+
6 rows in set (0.02 sec)
```

Rubah nilai dari transaksi beli yaitu menjadi 2.400.000.000

```
mysql> update transbeli set hargabeli=2400000000 where nofaktur="NT-B-0001";
Query OK, 1 row affected (0.09 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM TRANSBELI;
+-----------+---------+--------+------+------+------------+
| nofaktur  | kdsuppl | kdbrg  | qty  | jml  | hargabeli  |
+-----------+---------+--------+------+------+------------+
| NT-B-0001 | S001    | BR-002 | 3600 |    2 | 2400000000 |
+-----------+---------+--------+------+------+------------+
1 row in set (0.00 sec)
```

RETURBELI :

RT-B-0001	NT-B-0001	12/03/2019	BR-002	15	PECAH

```
mysql> insert into returbeli values ("RT-B-0001","NT-B-0001","2019-03-12",
    -> "BR-002",15,"PECAH");
Query OK, 1 row affected (0.03 sec)

mysql> SELECT * FROM RETURBELI;
+-----------+-----------+------------+--------+------+---------+
| noretbeli | nofaktur  | tglretur   | kdbrg  | qty  | ketrbrg |
+-----------+-----------+------------+--------+------+---------+
| RT-B-0001 | NT-B-0001 | 2019-03-12 | BR-002 |   15 | PECAH   |
+-----------+-----------+------------+--------+------+---------+
1 row in set (0.00 sec)

mysql>
```

3. ISI DATA TRANSAKSI JUAL :

TRANSJUAL :

NT-J-0001	04/04/2019	C001	BR-002	1.800	1	1.200.000.000	P002

```
mysql> insert into TRANSJUAL values ("NT-J-0001","2019-04-04","C001",
    -> "BR-002",1800,1,1200000000,"P002");
Query OK, 1 row affected (0.03 sec)

mysql> select * from transjual;
+-----------+------------+--------+--------+------+------+------------+------
| nota      | tglnota    | kdcust | kdbrg  | qty  | jml  | hargajual  | kdpeg
+-----------+------------+--------+--------+------+------+------------+------
| NT-J-0001 | 2019-04-04 | C001   | BR-002 | 1800 |    1 | 1200000000 | P002
+-----------+------------+--------+--------+------+------+------------+------
1 row in set (0.00 sec)
```

RETURJUAL :

RT-J-0001	NT-J-0001	09/04/2019	BR-002	4	KARDUS DAN PECAH	P001

```
mysql> insert into returjual values ("RT-J-0001","NT-J-0001","2019-04-09",
    -> "BR-002",4,"KARDUS DAN PECAH","P001");
Query OK, 1 row affected, 1 warning (0.04 sec)

mysql> select * from returjual;
+-----------+-----------+------------+--------+------+----------------+-----
| noretjual | nota      | tglRetur   | kdbrg  | qty  | ketrbrg        | kdpe
+-----------+-----------+------------+--------+------+----------------+-----
| RT-J-0001 | NT-J-0001 | 2019-04-09 | BR-002 |    4 | KARDUS DAN PECA | P001
+-----------+-----------+------------+--------+------+----------------+-----
1 row in set (0.00 sec)

mysql> _
```

Nilai keterangan barang salah di ganti struktur dan update data :

```
> alter table returjual modify ketrbrg char (20) ;
 OK, 1 row affected (0.29 sec)
ds: 1  Duplicates: 0  Warnings: 0

> update returjual set ketrbrg="KARDUS DAN PECAH" where noretjual="RT-J-0001"
 OK, 1 row affected (0.02 sec)
matched: 1  Changed: 1  Warnings: 0

> SELECT * FROM RETURJUAL;
-------+-----------+------------+--------+------+-----------------+-------+
etjual | nota      | tglRetur   | kdbrg  | qty  | ketrbrg         | kdpeg |
-------+-----------+------------+--------+------+-----------------+-------+
J-0001 | NT-J-0001 | 2019-04-09 | BR-002 |    4 | KARDUS DAN PECAH | P001  |
-------+-----------+------------+--------+------+-----------------+-------+
 in set (0.00 sec)
```

4. TAMPILKAN DATA KODE PEGAWAI, NAMA PEGAWAI, NAMA KOTA.
   PEGAWAI (KODE PEGAWAI, NAMA PEGAWAI)
   KOTA (NAMA KOTA)

   SELECT PEGAWAI.KDPEG, PEGAWAI.NMPEG, KOTA.NAMAKOTA FROM PEGAWAI, KOTA WHERE PEGAWAI.KOTAPEG = KOTA.KOTA;

```
mysql> select pegawai.kdpeg, pegawai.nmpeg, kota.namakota
    -> from pegawai, kota
    -> where pegawai.kotapeg = kota.kota;
+-------+------------+------------+
| kdpeg | nmpeg      | namakota   |
+-------+------------+------------+
| P001  | BUDIWALUYO | PEKALONGAN |
| P002  | SARI PUSPA | BATANG     |
+-------+------------+------------+
```

5. TAMPILKAN TRANSAKSI BELI YAITU NO FAKTUR, NAMA SUPPLIER, NAMA BARANG ,QUALITY, JUMLAH DAN HARGA BELI.

TRANSBELI (NO FAKTUR, QUALITY, JUMLAH DAN HARGA BELI)

SUPPLIER (NAMA SUPPLIER)

BARANG (NAMA BARANG)

SELECT TRANSBELI.NOFAKTUR, SUPPLIER.NMSUPPL, BARANG.NMBRG. TRANSBELI.QTY, TRANSBELI.JML, TRANSBELI.HARGABELI
FROM TRANSBELI, SUPPLIER, BARANG
WHERE TRANSBELI.KDSUPPL = SUPPLIER.KDSUPPL
AND TRANSBELI.KDBRG = BARANG.KDBRG

MODEL PERINTAHNYA :

```
mysql> select transbeli.nofaktur, supplier.nmsuppl, barang.nmbrg,
    -> transbeli.qty, transbeli.jml, transbeli.hargabeli
    -> from transbeli, supplier, barang
    -> where transbeli.kdsuppl = supplier.kdsuppl
    -> and transbeli.kdbrg = barang.kdbrg;
+-----------+---------+--------+------+------+------------+
| nofaktur  | nmsuppl | nmbrg  | qty  | jml  | hargabeli  |
+-----------+---------+--------+------+------+------------+
| NT-B-0001 | AHMAT   | GRANIT | 3600 |    2 | 2400000000 |
+-----------+---------+--------+------+------+------------+
1 row in set (0.00 sec)
```

TUGAS MANDIRI

1. BUATLAH LAPORAN DARI TABEL YANG SUDAH ADA, ATAU DI TAMBAHKAN DATA SECARA INDIVIDU
2. BUAT LAPORAN TAMBAHAN SEBANYAK 3 LAPORAN YANG MENGAMBIL DARI BEBERAPA TABEL DAN TERANGKAN