



TTD
ASISTEN

LAB 5

PERTEMUAN 9



POINT
RESPON



POINT
TUGAS

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RELASI TABEL DAN LOCALHOST REFERENCIAL INTEGRITY

1. Buat database trans_jual_ilham

```
MariaDB [(none)]> create database trans_jual_ilham;  
Query OK, 1 row affected (0.001 sec)  
  
MariaDB [(none)]> use trans_jual_ilham;  
Database changed  
MariaDB [trans_jual_ilham]>
```

2. Buat tabel barang dan kota

```
MariaDB [trans_jual_ilham]> create table barang (  
-> kdbrg char(10) not null unique,  
-> nmbrg char(30),  
-> satuan char(25),  
-> harga int(8));  
Query OK, 0 rows affected (0.195 sec)  
  
MariaDB [trans_jual_ilham]> desc barang;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type   | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| kdbrg | char(10) | NO   | PRI | NULL    |       |  
| nmbrg | char(30) | YES  |     | NULL    |       |  
| satuan | char(25) | YES  |     | NULL    |       |  
| harga | int(8)   | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
4 rows in set (0.015 sec)
```

```

MariaDB [trans_jual_ilham]> create table kota (
  -> kota char(2) not null unique,
  -> namakota char(20),
  -> propinsi char(20));
Query OK, 0 rows affected (0.207 sec)

```

Unique artinya nilai yang ada pada kolom tersebut untuk dari semua tabel, jadi tidak ada nilai yang sama atau duplikat.

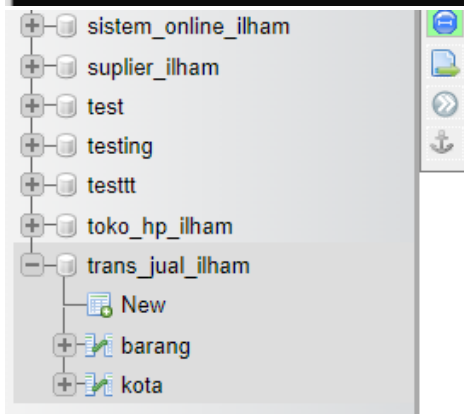
```

MariaDB [trans_jual_ilham]> desc kota;

```

Field	Type	Null	Key	Default	Extra
kota	char(2)	NO	PRI	NULL	
namakota	char(20)	YES		NULL	
propinsi	char(20)	YES		NULL	

3 rows in set (0.036 sec)



```

trans_jual_ilham kota
+-----+
| kota : char(2)
| namakota : char(20)
| propinsi : char(20)
+-----+

```

```

trans_jual_ilham barang
+-----+
| kdbrg : char(10)
| nmbrg : char(30)
| satuan : char(25)
| # harga : int(8)
+-----+

```

3. Buat tabel cust, pegawai dan supplier

```

MariaDB [trans_jual_ilham]> create table cust (
  -> kdcust char(10) not null unique,
  -> nmcust char(25),
  -> almtcust char(10),
  -> kotacust char(2),
  -> foreign key (kotacust) references kota(kota)
  -> on update no action);
Query OK, 0 rows affected (0.224 sec)

```

```

MariaDB [trans_jual_ilham]> desc cust;

```

Field	Type	Null	Key	Default	Extra
kdcust	char(10)	NO	PRI	NULL	
nmcust	char(25)	YES		NULL	
almtcust	char(10)	YES		NULL	
kotacust	char(2)	YES	MUL	NULL	

4 rows in set (0.011 sec)

```

MariaDB [trans_jual_ilham]> create table pegawai (
  -> kdpeg char(10) not null unique,
  -> nmpeg char(25),
  -> almtpeg char(35),
  -> kotapeg char(2),
  -> foreign key (kotapeg) references kota(kota)
  -> on update no action);

```

Query OK, 0 rows affected (0.196 sec)

```

MariaDB [trans_jual_ilham]> desc pegawai;

```

Field	Type	Null	Key	Default	Extra
kdpeg	char(10)	NO	PRI	NULL	
nmpeg	char(25)	YES		NULL	
almtpeg	char(35)	YES		NULL	
kotapeg	char(2)	YES	MUL	NULL	

4 rows in set (0.026 sec)

```

MariaDB [trans_jual_ilham]> create table supplier (
  -> kdsuppl char(10) not null unique,
  -> nmsuppl char(35),
  -> almtsuppl char(35),
  -> kotasuppl char(2),
  -> foreign key (kotasuppl) references kota(kota)
  -> on update no action);

```

Query OK, 0 rows affected (0.359 sec)

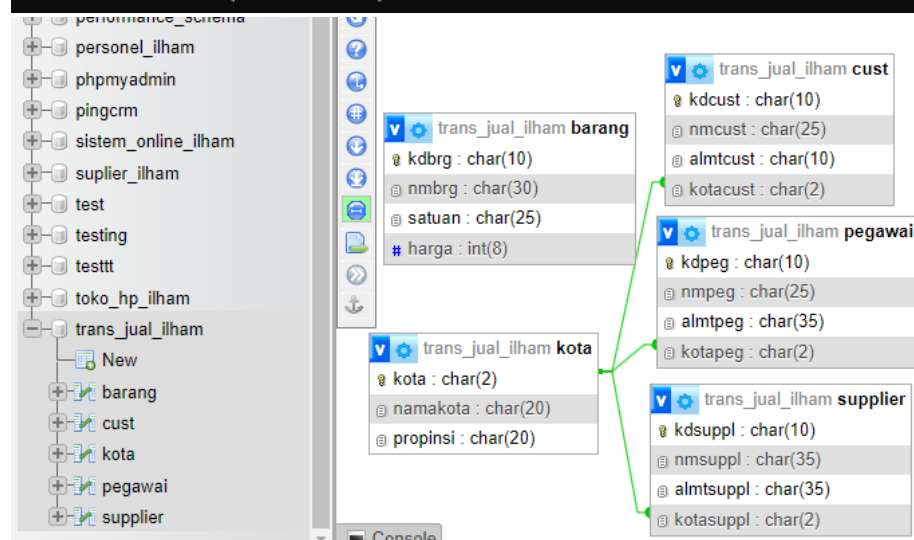
```

MariaDB [trans_jual_ilham]> desc supplier;

```

Field	Type	Null	Key	Default	Extra
kdsuppl	char(10)	NO	PRI	NULL	
nmsuppl	char(35)	YES		NULL	
almtsuppl	char(35)	YES		NULL	
kotasuppl	char(2)	YES	MUL	NULL	

4 rows in set (0.015 sec)



4. Buat tabel transbeli dan returbeli

```
MariaDB [trans_jual_ilham]> create table transbeli (  
  -> nofaktur char(10) not null unique,  
  -> kdsuppl char(10),  
  -> kdbrg char(10),  
  -> qty int(8),  
  -> jml int(10),  
  -> hargabeli int(10),  
  -> foreign key (kdsuppl) references supplier (kdsuppl),  
  -> foreign key (kdbrg) references barang (kdbrg)  
  -> );
```

Query OK, 0 rows affected (0.235 sec)

```
MariaDB [trans_jual_ilham]> 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	int(10)	YES		NULL	

6 rows in set (0.011 sec)

Tambahkan field tglbeli setelah nofaktur

```
MariaDB [trans_jual_ilham]> alter table transbeli add tglbeli date after nofaktur;  
ERROR 2006 (HY000): MySQL server has gone away  
No connection. Trying to reconnect...  
Connection id: 173  
Current database: trans_jual_ilham
```

Query OK, 0 rows affected (0.129 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
MariaDB [trans_jual_ilham]> desc transbeli;
```

Field	Type	Null	Key	Default	Extra
nofaktur	char(10)	NO	PRI	NULL	
tglbeli	date	YES		NULL	
kdsuppl	char(10)	YES	MUL	NULL	
kdbrg	char(10)	YES	MUL	NULL	
qty	int(8)	YES		NULL	
jml	int(10)	YES		NULL	
hargabeli	int(10)	YES		NULL	

7 rows in set (0.010 sec)

```

MariaDB [trans_jual_ilham]> create table returbeli (
  -> noretbeli char(10) not null unique,
  -> nofaktur char(10),
  -> tglretur date,
  -> kdbrg char(10),
  -> qty int(8),
  -> ketbrg char(15),
  -> foreign key (nofaktur) references transbeli(nofaktur),
  -> foreign key (kdbrg) references barang(kdbrg));
Query OK, 0 rows affected (0.308 sec)

```

```

MariaDB [trans_jual_ilham]> desc returbeli;

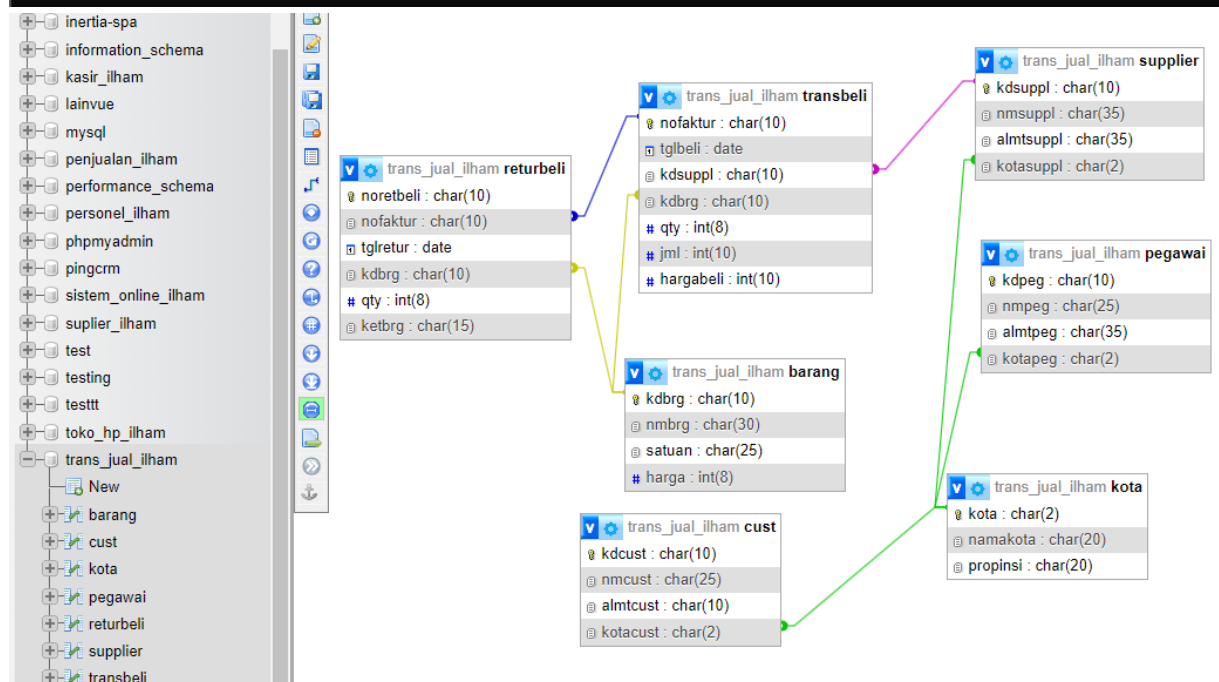
```

Field	Type	Null	Key	Default	Extra
noretbeli	char(10)	NO	PRI	NULL	
nofaktur	char(10)	YES	MUL	NULL	
tglretur	date	YES		NULL	
kdbrg	char(10)	YES	MUL	NULL	
qty	int(8)	YES		NULL	
ketbrg	char(15)	YES		NULL	

```

6 rows in set (0.011 sec)

```



5. Buatlah tabel transjual dan returjual , tampilkan desc dan localhost references. DI COBA DENGAN BAIK

- TABEL TRANSJUAL

```
MariaDB [trans_jual_ilham]> create table transjual (  
  -> nota char(10) not null unique,  
  -> tglnota date,  
  -> kdcust char(10),  
  -> kdbrg char(10),  
  -> qty char(8),  
  -> jml int(10),  
  -> hargajual int(10),  
  -> kdpeg char(10),  
  -> foreign key (kdcust) references cust (kdcust),  
  -> foreign key (kdbrg) references barang (kdbrg),  
  -> foreign key (kdpeg) references pegawai (kdpeg));  
Query OK, 0 rows affected (0.465 sec)
```

```
MariaDB [trans_jual_ilham]> desc transjual;
```

Field	Type	Null	Key	Default	Extra
nota	char(10)	NO	PRI	NULL	
tglnota	date	YES		NULL	
kdcust	char(10)	YES	MUL	NULL	
kdbrg	char(10)	YES	MUL	NULL	
qty	char(8)	YES		NULL	
jml	int(10)	YES		NULL	
hargajual	int(10)	YES		NULL	
kdpeg	char(10)	YES	MUL	NULL	

8 rows in set (0.027 sec)

kdcust berleasi dengan tabel cust field kdcust.

kdbrg berelasi dengan tabel barang field kdbrg.

kdpeg berelasi dengan tabel pegawai field

kdpeg.

- TABEL RETURJUAL

```
MariaDB [trans_jual_ilham]> create table returjual (  
-> noreturjual char(10) not null unique,  
-> nota char(10),  
-> tglRetur date,  
-> kdbrg char(10),  
-> qty int(8),  
-> ketbrg char(15),  
-> kdpeg char(10),  
-> foreign key (nota) references transjual(nota),  
-> foreign key (kdbrg) references barang (kdbrg),  
-> foreign key (kdpeg) references pegawai (kdpeg));  
Query OK, 0 rows affected (0.242 sec)
```

```
MariaDB [trans_jual_ilham]> desc returjual;
```

Field	Type	Null	Key	Default	Extra
noreturjual	char(10)	NO	PRI	NULL	
nota	char(10)	YES	MUL	NULL	
tglRetur	date	YES		NULL	
kdbrg	char(10)	YES	MUL	NULL	
qty	int(8)	YES		NULL	
ketbrg	char(15)	YES		NULL	
kdpeg	char(10)	YES	MUL	NULL	

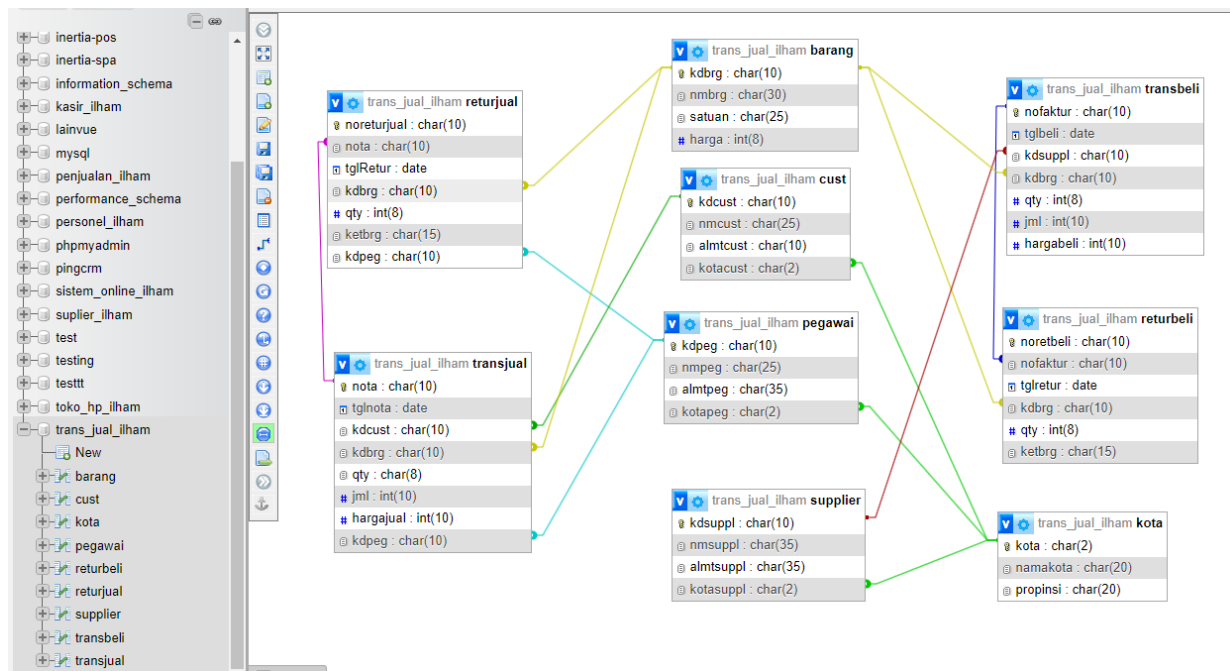
7 rows in set (0.012 sec)

nota berelasi dengan tabel transjual field nota.

kdbrg berelasi dengan tabel barang field kdbrg.

kdpeg berelasi dengan tabel pegawai field kdpeg.

• TAMPILKAN RELASINYA



KUIS 1

Buat index dg nama nminx dari tabel pegawai.

```
MariaDB [trans_jual_ilham]> create index nminx on pegawai(nmpeg);
Query OK, 0 rows affected (0.293 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [trans_jual_ilham]> show index from pegawai;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
pegawai	0	kdpeg	1	kdpeg	A	0				BTREE		
pegawai	1	kotapeg	1	kotapeg	A				YES	BTREE		
pegawai	1	nminx	1	nmpeg	A	0			YES	BTREE		

3 rows in set (0.001 sec)

Buat index nmcust_inx dari cust.

```
MariaDB [trans_jual_ilham]> create index nmcust_inx on cust(nmcust);
Query OK, 0 rows affected (0.215 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [trans_jual_ilham]> show index from cust;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
cust	0	kdcust	1	kdcust	A	0				BTREE		
cust	1	kotacust	1	kotacust	A	0			YES	BTREE		
cust	1	nmcust_inx	1	nmcust	A	0			YES	BTREE		

3 rows in set (0.001 sec)

Lalu kota buat index nmkota_inx dari kota.

```
MariaDB [trans_jual_ilham]> create index nmkota_inx on kota(namakota);
Query OK, 0 rows affected (0.208 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [trans_jual_ilham]> show index from kota;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
kota	0	kota	1	kota	A	0				BTREE		
kota	1	nmkota_inx	1	namakota	A	0			YES	BTREE		

2 rows in set (0.001 sec)

Create index (namaindex) on (tabel)(field)

KUIS 2

Buat tabel view dengan nama data_faktur_sales_kota yang diambil faktur, nama_supplier, nama_kota kemudian di desc.

```

MariaDB [trans_jual_ilham]> create view data_fak_sales_kota
  -> (transbeli,supplier,kota) as select nofaktur,nmsuppl,namakota
  -> from transbeli, supplier, kota;
Query OK, 0 rows affected (0.045 sec)

MariaDB [trans_jual_ilham]> show create view data_fak_sales_kota;
+-----+-----+
| View | Create View | character |
+-----+-----+
| data_fak_sales_kota | CREATE ALGORITHM=UNDEFINED DEFINER=`root`@`localhost` SQL SECURITY DEFINER VIEW `data_fak_sales_kota` AS select `transbeli`.`nofaktur` AS `transbeli`,`supplier`.`nmsuppl` AS `supplier`,`kota`.`namakota` AS `kota` from ((`transbeli` join `supplier`) join `kota`) | utf8mb4 | utf8mb4_general_ci |
+-----+-----+
1 row in set (0.001 sec)
```

create view : Membuat view dalam database.

data_fak_sales_kota : nama view.

(transbeli, supplier, kota) : daftar kolom yang akan ada di view.

as select : as artinya alias, select memilih kolom.

From transbeli,supplier,kota : dari 3 tabel.

KUIS 3

Buat tabel view qty_1000 yang mengambil kolom nofaktur,nmbrg,qty,dan nmsuppl dari tabel transbeli,barang,supplier dengan syarat qty lebih kecil dari 1000 (<1000).

```
MariaDB [trans_jual_ilham]> create view qty_1000 as select
-> nofaktur,nmbrg,qty,nmsuppl from transbeli,barang,supplier
-> where qty <1000;
Query OK, 0 rows affected (0.038 sec)
```

create view : Membuat view dalam database.

qty_1000 : nama view.

as select : as artinya alias, select memilih kolom.

nofaktur,nmbrg,qty,nmsuppl: filed yang di pilih.

from transbeli,barang,supplier : dari 3 tabel.

where qty <1000 : kondisi dimana qty kurang dari 1000.

```
MariaDB [trans_jual_ilham]> show create view qty_1000;
+-----+-----+
| View | Create View |
+-----+-----+
|      | character_set_client | collation_connection |
+-----+-----+
| qty_1000 | CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY DEFINER VIEW `qty_1000` AS select `transbeli`.`nofaktur` AS `nofaktur`,`ba
rang`.`nmbrg` AS `nmbrg`,`transbeli`.`qty` AS `qty`,`supplier`.`nmsuppl` AS `nmsuppl` from ((`transbeli` join `barang`) join `supplier`) where `transbeli`
.`qty` < 1000 | utf8mb4 | utf8mb4_general_ci |
+-----+-----+
1 row in set (0.001 sec)

MariaDB [trans_jual_ilham]> desc qty_1000;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nofaktur | char(10) | NO | | NULL | |
| nmbrg | char(30) | YES | | NULL | |
| qty | int(8) | YES | | NULL | |
| nmsuppl | char(35) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.032 sec)
```

RELASINYA

