

TEKNOLOGI BASIS DATA

Praktikum MySQL pada CMD

Tugas Praktikum 5 Basis Data



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Buat query untuk menampilkan data seperti berikut:

1.

kode	jenis	merk	nofaktursewa	tglsewa	lanasewa
M001	SEDAN	BMW E5	F001	2008-12-01	2
M002	SEDAN	HONDA CRU	F002	2008-12-02	1
M003	BUS	MERCEDEZ	F001	2008-12-01	2
M004	BUS	DYNA	NULL	NULL	NULL
M005	TRUCK	HYNO ZX	NULL	NULL	NULL
M006	TRUCK	DYNA X1	NULL	NULL	NULL

2.

nofaktursewa	nana	tglsewa	jenis	merk	lanasewa	uangmuka
F001	PT FOX RIVER	2008-12-01	SEDAN	BMW E5	2	200000
F001	PT FOX RIVER	2008-12-01	BUS	MERCEDEZ	2	200000
F002	CU FOXCOM	2008-12-02	SEDAN	HONDA CRU	1	100000

3.

nana	kota	nofaktursewa	tglsewa	kodemobil	lanasewa	uangmuka
PT FOX RIVER	BENGKULU	F001	2008-12-01	M001	2	200000
PT FOX RIVER	BENGKULU	F001	2008-12-01	M003	2	200000
CU FOXCOM	JAKARTA	F002	2008-12-02	M002	1	100000
PT FARMACOM	LAMPUNG	NULL	NULL	NULL	NULL	NULL

Kodemobil	Jenis	Merk	Tarif	Nopol
M001	Sedan	BMW E5	500.000	BG1234AA
M002	Sedan	HONDA CRV	350.000	BG2345BB
M003	Bus	MERCEDEZ	1.000.000	BG3456CC
M004	Bus	DYNA	800.000	BG8443DD
M005	Truck	HYNO ZX	1.500.000	BG4638EE
M006	truck	DYNA X1	1.500.000	BG8473FF

1. Buat database dengan nama sewa mobil

Create database sewamobil;

Use sewasewamobil;

2. Buat tabel mobil

Create table mobil(kodemobil varchar(10), jenis varchar(20), merk varchar(20), tarif varchar(10), nopol varchar(20));

Desc mobil;

```

Administrator: Command Prompt - mysql -u root

MariaDB [(none)]> use sewamobil;
Database changed
MariaDB [sewamobil]> create table mobil(kodemobil varchar(10), jenis varchar(20), merk varchar(20), tarif varchar(10), nopol varchar(20));
Query OK, 0 rows affected (0.34 sec)

MariaDB [sewamobil]> desc mobil;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kodemobil | varchar(10) | YES  |     | NULL    |       |
| jenis    | varchar(20) | YES  |     | NULL    |       |
| merk     | varchar(20) | YES  |     | NULL    |       |
| tarif    | varchar(10) | YES  |     | NULL    |       |
| nopol    | varchar(20) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.09 sec)

MariaDB [sewamobil]>

```

### 3. Input data

Insert into mobil

(kode mobil, jenis, merk, tarif, nopol)

Values

(“M001”, “SEDAN”, “BMW E5”, “500000”, “BG1234AA”),  
 (“M002”, “SEDAN”, “HONDA CRV”, “350000”, “B2345BB”),  
 (“M003”, “BUS”, “MERCEDEZ”, “1000000”, “BG3456CC”),  
 (“M004”, “BUS”, “DYNA”, “800000”, “BG8443DD”),  
 (“M005”, “TRUCK”, “HYNO ZX”, “1500000”, “BG4638EE”),  
 (“M006”, “TRUCK”, “DYNA X1”, “150000”, “BG8473FF”);

```

MariaDB [sewamobil]> insert into mobil
-> (kode mobil, jenis, merk, tarif, nopol)
-> values
-> ("M001", "SEDAN", "BMW E5", "500000", "BG1234AA"),
-> ("M002", "SEDAN", "HONDA CRV", "350000", "B2345BB"),
-> ("M003", "BUS", "MERCEDEZ", "1000000", "BG3456CC"),
-> ("M004", "BUS", "DYNA", "800000", "BG8443DD"),
-> ("M005", "TRUCK", "HYNO ZX", "1500000", "BG4638EE"),
-> ("M006", "TRUCK", "DYNA X1", "150000", "BG8473FF");
Query OK, 6 rows affected (0.20 sec)
Records: 6 Duplicates: 0 Warnings: 0

MariaDB [sewamobil]>

```

### 4. Buat tabel pelanggan

Kodepelanggan	Nama	Kontak	Alamat	Kota	Kodepos	Telepon
P001	PT FOX RIVER	HENDRA	JL. JEND. SUDIRMAN 657	BENGKULU	30245	1234567
P002	CV FAXCON	IWAN	JL. WAHID HASYIM 743	JAKARTA	73429	234567
P003	PT FARMACON	YANI	JL. AHMAD DAHLAN 45	LAMPUNG	28349	3334445

Create table pelanggan(kodepelanggan varchar(10), nama varchar(20), kontak varchar(20), alamat varchar(30), kota varchar(20), kodepos varchar(10), telepon varchar(20));

```
MariaDB [sewamobil]> create table pelanggan(kodepelanggan varchar(10), nama varchar(20), kontak varchar(20), alamat
varchar(30), kota varchar(20), kodepos varchar(10), telepon varchar(20));
Query OK, 0 rows affected (0.38 sec)

MariaDB [sewamobil]> desc pelanggan;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kodepelanggan | varchar(10) | YES | | NULL | |
| nama | varchar(20) | YES | | NULL | |
| kontak | varchar(20) | YES | | NULL | |
| alamat | varchar(30) | YES | | NULL | |
| kota | varchar(20) | YES | | NULL | |
| kodepos | varchar(10) | YES | | NULL | |
| telepon | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.08 sec)
```

## 5. Insert data

Insert into pelanggan

(kodepelanggan, nama, kontak, alamat, kota, kodepos, telepon)

Values

("P001","PT FOX RIVER","HENDRA","JL. JEND. SUDIRMAN  
657","BENGKULU","30245","1234567"),

("P002","CV FAXCON","IWAN","JL. WAHID HASYIM  
743","JAKARTA","73429","234567"),

("P003","PT FARMACON","YANI","JL. AHMAD DAHLAN  
45","LAMPUNG","28349","3334445");

```
Administrator: Command Prompt - mysql -u root
7 rows in set (0.08 sec)

MariaDB [sewamobil]> insert into pelanggan
-> (kodepelanggan, nama, kontak, alamat, kota, kodepos, telepon)
-> values
-> ("P001","PT FOX RIVER","HENDRA","JL. JEND. SUDIRMAN 657","BENGKULU","30245","1234567"),
-> ("P002","CV FAXCON","IWAN","JL. WAHID HASYIM 743","JAKARTA","73429","234567"),
-> ("P003","PT FARMACON","YANI","JL. AHMAD DAHLAN 45","LAMPUNG","28349","3334445");
Query OK, 3 rows affected (0.10 sec)
Records: 3 Duplicates: 0 Warnings: 0

MariaDB [sewamobil]> select * from pelanggan;
+-----+-----+-----+-----+-----+-----+
| kodepelanggan | nama | kontak | alamat | kota | kodepos | telepon |
+-----+-----+-----+-----+-----+-----+
| P001 | PT FOX RIVER | HENDRA | JL. JEND. SUDIRMAN 657 | BENGKULU | 30245 | 1234567 |
| P002 | CV FAXCON | IWAN | JL. WAHID HASYIM 743 | JAKARTA | 73429 | 234567 |
| P003 | PT FARMACON | YANI | JL. AHMAD DAHLAN 45 | LAMPUNG | 28349 | 3334445 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

## 6. Buat tabel sewa

Nofaktursewa	Kode pelanggan	Tglsewa	Kodemobil	Lamasewa	Uangmuka
F001	P001	2008-12-01	M001	2	200.000

F002	P001	2008-12-01	M003	2	200.000
F003	P002	2008-12-02	M002	1	100.000

Create table sewa(nofaktursewa varchar(10), kodepelanggan varchar(10), tglsewa date, kodemobil varchar(10), lamasewa varchar(5), uangmuka varchar(10));

```
MariaDB [sewamobil]> create table sewa(nofaktursewa varchar(10), kodepelanggan varchar(10), tglsewa date, kodemobil
varchar(10), lamasewa varchar(5), uangmuka varchar(10));
Query OK, 0 rows affected (0.35 sec)

MariaDB [sewamobil]> desc sewa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nofaktursewa | varchar(10) | YES | | NULL | |
| kodepelanggan | varchar(10) | YES | | NULL | |
| tglsewa | date | YES | | NULL | |
| kodemobil | varchar(10) | YES | | NULL | |
| lamasewa | varchar(5) | YES | | NULL | |
| uangmuka | varchar(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.06 sec)
```

## 7. Input data

Insert into sewa

(nofaktursewa, kodepelanggan, tglsewa, kodemobil, lamasewa, uangmuka)

Values

("F001","P001","2008-12-01","M001","2","200000"),

("F002","P001","2008-12-01","M003","2","200000"),

("F003","P002","2008-12-02","M002","1","100000");

```
Administrator: Command Prompt - mysql -u root
+-----+-----+-----+-----+-----+-----+
| uangmuka | varchar(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.06 sec)

MariaDB [sewamobil]> insert into sewa
-> (nofaktursewa, kodepelanggan, tglsewa, kodemobil, lamasewa, uangmuka)
-> values
-> ("F001","P001","2008-12-01","M001","2","200000"),
-> ("F002","P001","2008-12-01","M003","2","200000"),
-> ("F003","P002","2008-12-02","M002","1","100000");
Query OK, 3 rows affected (0.09 sec)
Records: 3 Duplicates: 0 Warnings: 0

MariaDB [sewamobil]> select * from sewa;
+-----+-----+-----+-----+-----+-----+
| nofaktursewa | kodepelanggan | tglsewa | kodemobil | lamasewa | uangmuka |
+-----+-----+-----+-----+-----+-----+
| F001 | P001 | 2008-12-01 | M001 | 2 | 200000 |
| F002 | P001 | 2008-12-01 | M003 | 2 | 200000 |
| F003 | P002 | 2008-12-02 | M002 | 1 | 100000 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

MariaDB [sewamobil]>
```

## 8. JOIN

a. Select mobil.kodemobil, jenis, merk, sewa.nofaktursewa, tglsewa, lamasewa

From sewa

Right join mobil

On sewa.kodemobil=mobil.kodemobil

Order by mobil.kodemobil;

```
MariaDB [sewamobil]> select mobil.kodemobil, jenis, merk, sewa.nofaktursewa, tglsewa, lamasewa
-> from sewa
-> right join mobil
-> on sewa.kodemobil=mobil.kodemobil
-> order by mobil.kodemobil;
```

kodemobil	jenis	merk	nofaktursewa	tglsewa	lamasewa
M001	SEDAN	BMW E5	F001	2008-12-01	2
M002	SEDAN	HONDA CRV	F003	2008-12-02	1
M003	BUS	MERCEDEZ	F002	2008-12-01	2
M004	BUS	DYNA	NULL	NULL	NULL
M005	TRUCK	HYNO ZX	NULL	NULL	NULL
M006	TRUCK	DYNA X1	NULL	NULL	NULL

6 rows in set (0.02 sec)

- b. Select sewa.nofaktursewa, pelanggan.nama, sewa.tglsewa, mobil.jenis, merk, sewa.lamasewa, uangmuka
- From mobil
- Inner join(sewa inner join pelanggan on sewa.kodepelanggan=pelanggan.kodepelanggan)
- On mobil.kodemobil=sewa.kodemobil
- Order by sewa.nofaktursewa;

```
MariaDB [sewamobil]> select sewa.nofaktursewa, pelanggan.nama, sewa.tglsewa, mobil.jenis, merk, sewa.lamasewa, uangmuka
-> from mobil
-> inner join(sewa inner join pelanggan on sewa.kodepelanggan=pelanggan.kodepelanggan)
-> on mobil.kodemobil=sewa.kodemobil
-> order by sewa.nofaktursewa;
```

nofaktursewa	nama	tglsewa	jenis	merk	lamasewa	uangmuka
F001	PT FOX RIVER	2008-12-01	SEDAN	BMW E5	2	200000
F002	PT FOX RIVER	2008-12-01	BUS	MERCEDEZ	2	200000
F003	CV FAXCON	2008-12-02	SEDAN	HONDA CRV	1	100000

3 rows in set (0.07 sec)

- c. Select pelanggan.nama, kota, sewa.nofaktursewa, tglsewa, kodemobil, lamasewa, uangmuka
- From pelanggan
- Left join sewa
- On pelanggan.kodepelanggan=sewa.kodepelanggan
- Order by pelanggan.kodepelanggan;

```
MariaDB [sewamobil]> select pelanggan.nama, kota, sewa.nofaktursewa, tglsewa, kodemobil, lamasewa, uangmuka
-> from pelanggan
-> left join sewa
-> on pelanggan.kodepelanggan=sewa.kodepelanggan
-> order by pelanggan.kodepelanggan;
```

nama	kota	nofaktursewa	tglsewa	kodemobil	lamasewa	uangmuka
PT FOX RIVER	BENGKULU	F002	2008-12-01	M003	2	200000
PT FOX RIVER	BENGKULU	F001	2008-12-01	M001	2	200000
CV FAXCON	JAKARTA	F003	2008-12-02	M002	1	100000
PT FARMACON	LAMPUNG	NULL	NULL	NULL	NULL	NULL

4 rows in set (0.00 sec)

MariaDB [sewamobil]> .