Nama   : Hasim Budi Jatmiko

Kelas   : TI 17 D2

NIM   : 311710448

PRAKTIKUM 5

1. Buat sebuah database baru dengan nama **sewamobil**
2. Isi data pada table tersebut

Nama tabel **mobil**

Kode	Jenis	Merk	Tarif	Nopol
M001	SEDAN	BMW E5	500000	BG1234AA
M002	SEDAN	HONDA CRV	350000	BG2345BB
M003	BUS	MERCEDEZ	1000000	BG3456CC
M004	BUS	DYNA	800000	BG8443DD
M005	TRUCK	HYNO ZX	1500000	BG4638EE
M006	TRUCK	DYNA X1	1500000	BG8473FF

Nama tabel **pelanggan**

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

Nama tabel **sewa**

No Faktur Sewa	Kode Pelanggan	Tanggal Sewa	Kode Mobil	Lama Sewa	Uang Muka
F001	P001	2008-12-01	M001	2	200000
F002	P001	2008-12-01	M003	2	200000
F003	P002	2008-12-02	M002	1	100000

Langkah – langkah

1. Buat database baru dengan nama sewa mobil dan gunakan database tersebut

2. Kemudian buat masing-masing tabel nya, disini ada tiga tabel yakni **mobil, sewa, dan pelanggan**

- Membuat tabel mobil

```
MariaDB [sewamobil]> create table mobil (
    -> kode varchar(5),
    -> jenis varchar(10),
    -> merk varchar(10),
    -> tarif int(10),
    -> nopol varchar(10));
Query OK, 0 rows affected (0.34 sec)

MariaDB [sewamobil]> desc mobil;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| kode  | varchar(5)  | YES  |     | NULL    |       |
| jenis | varchar(10) | YES  |     | NULL    |       |
| merk  | varchar(10) | YES  |     | NULL    |       |
| tarif | int(10)     | YES  |     | NULL    |       |
| nopol | varchar(10) | YES  |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
5 rows in set (0.13 sec)
```

Memasukkan data-data mobil ke dalam tabel

```
MariaDB [sewamobil]> insert into mobil values
    -> ("M001", "SEDAN", "BMW E5", 500000, "BG1234AA"),
    -> ("M002", "SEDAN", "HONDA CRV", 350000, "BG2345BB"),
    -> ("M003", "BUS", "MERCEDEZ", 1000000, "BG3456CC"),
    -> ("M004", "BUS", "DYNA", 800000, "BG8443DD"),
    -> ("M005", "TRUCK", "HYNO ZX", 1500000, "BG4683EE"),
    -> ("M006", "TRUCK", "DYNA X1", 1500000, "BG8473FF");
Query OK, 6 rows affected (0.14 sec)
Records: 6  Duplicates: 0  Warnings: 0

MariaDB [sewamobil]> select * from mobil;
+------+-------+-----------+---------+----------+
| kode | jenis | merk      | tarif   | nopol    |
+------+-------+-----------+---------+----------+
| M001 | SEDAN | BMW E5    |  500000 | BG1234AA |
| M002 | SEDAN | HONDA CRV |  350000 | BG2345BB |
| M003 | BUS   | MERCEDEZ  | 1000000 | BG3456CC |
| M004 | BUS   | DYNA      |  800000 | BG8443DD |
| M005 | TRUCK | HYNO ZX   | 1500000 | BG4683EE |
| M006 | TRUCK | DYNA X1   | 1500000 | BG8473FF |
+------+-------+-----------+---------+----------+
6 rows in set (0.00 sec)
```

- Membuat tabel **pelaggan**

```
MariaDB [sewamobil]> create table pelanggan (
    -> kode varchar(5),
    -> nama varchar(10),
    -> kontak varchar(10),
    -> alamat varchar(20),
    -> kota varchar(10),
    -> kodepos int(5),
    -> telepon int(15));
Query OK, 0 rows affected (0.17 sec)

MariaDB [sewamobil]> desc pelanggan;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| kode    | varchar(5)  | YES  |     | NULL    |       |
| nama    | varchar(10) | YES  |     | NULL    |       |
| kontak  | varchar(10) | YES  |     | NULL    |       |
| alamat  | varchar(20) | YES  |     | NULL    |       |
| kota    | varchar(10) | YES  |     | NULL    |       |
| kodepos | int(5)      | YES  |     | NULL    |       |
| telepon | int(15)     | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
7 rows in set (0.02 sec)
```

```
MariaDB [sewamobil]> insert into pelanggan values
    -> ("P001", "PT FOX RIVER", "HENDRA", "JL. JEND. SUDIRMAN 657", "BENGKULU", 30249, 1234567),
    -> ("P002", "CV FOXCON", "IWAN", "JL. WAHID HASYIM 743", "JAKARTA", 73429, 234567),
    -> ("P003", "PT FARMACOM", "YANI", "JL. AHMAD DAHLAN 45", "LAMPUNG", 28349, 334445);
Query OK, 3 rows affected, 3 warnings (0.09 sec)
Records: 3  Duplicates: 0  Warnings: 3

MariaDB [sewamobil]> select * from pelanggan;
+------+-------------+--------+----------------------+----------+---------+---------+
| kode | nama        | kontak | alamat               | kota     | kodepos | telepon |
+------+-------------+--------+----------------------+----------+---------+---------+
| P001 | PT FOX RIV  | HENDRA | JL. JEND. SUDIRMAN 6  | BENGKULU |   30249 | 1234567 |
| P002 | CV FOXCON   | IWAN   | JL. WAHID HASYIM 743  | JAKARTA  |   73429 |  234567 |
| P003 | PT FARMACO  | YANI   | JL. AHMAD DAHLAN 45   | LAMPUNG  |   28349 |  334445 |
+------+-------------+--------+----------------------+----------+---------+---------+
3 rows in set (0.00 sec)
```

- Membuat tabel sewa

```
MariaDB [sewamobil]> create table sewa (
    -> no_faktur varchar(5),
    -> kode_pelanggan varchar(5),
    -> tanggal_sewa date,
    -> kode_mobil varchar(5),
    -> lama_sewa int(2),
    -> uang_muka int(10));
Query OK, 0 rows affected (0.31 sec)

MariaDB [sewamobil]> desc sewa;
+----------------+------------+------+-----+---------+-------+
| Field          | Type       | Null | Key | Default | Extra |
+----------------+------------+------+-----+---------+-------+
| no_faktur      | varchar(5) | YES  |     | NULL    |       |
| kode_pelanggan | varchar(5) | YES  |     | NULL    |       |
| tanggal_sewa   | date       | YES  |     | NULL    |       |
| kode_mobil     | varchar(5) | YES  |     | NULL    |       |
| lama_sewa      | int(2)     | YES  |     | NULL    |       |
| uang_muka      | int(10)    | YES  |     | NULL    |       |
+----------------+------------+------+-----+---------+-------+
6 rows in set (0.02 sec)
```

Memasukkan data kedalam tabel sewa

```
MariaDB [sewamobil]> insert into sewa values
    -> ("F001", "P001", "2008-12-01", "M001", 2, 200000),
    -> ("F002", "P002", "2008-12-01", "M003", 2, 200000),
    -> ("F003", "P002", "2008-12-02", "M002", 1, 100000);
Query OK, 3 rows affected (0.08 sec)
Records: 3  Duplicates: 0  Warnings: 0

MariaDB [sewamobil]> select * from sewa;
+-----------+----------------+--------------+------------+-----------+-----------+
| no_faktur | kode_pelanggan | tanggal_sewa | kode_mobil | lama_sewa | uang_muka |
+-----------+----------------+--------------+------------+-----------+-----------+
| F001      | P001           | 2008-12-01   | M001       |         2 |    200000 |
| F002      | P002           | 2008-12-01   | M003       |         2 |    200000 |
| F003      | P002           | 2008-12-02   | M002       |         1 |    100000 |
+-----------+----------------+--------------+------------+-----------+-----------+
3 rows in set (0.00 sec)
```

3. Menampilkan kode mobil, jenis, merk, no_faktur, tanggal_sewa, lama_sewa
   Disini kita menggabungkan dua table menggunakan left join antara table mobil dan sewa

```
MariaDB [sewamobil]> select
    -> mobil.kode,
    -> mobil.jenis,
    -> mobil.merk,
    -> sewa.no_faktur,
    -> sewa.tanggal_sewa,
    -> sewa.lama_sewa
    -> from mobil
    -> left join sewa on mobil.kode = sewa.kode_mobil
    -> order by mobil.kode;
+------+-------+-----------+-----------+--------------+-----------+
| kode | jenis | merk      | no_faktur | tanggal_sewa | lama_sewa |
+------+-------+-----------+-----------+--------------+-----------+
| 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 (0.26 sec)
```

4. Menampilkan no_faktur_sewa, nama, tanggal_sewa, jenis, merk, lama_sewa, uang_muka
   Disini kita menggabungkan tiga table menggunakan inner joint antara table2 tersebut

```
MariaDB [sewamobil]> select
    -> sewa.no_faktur as no_faktur_sewa,
    -> mobil.nama,
    -> sewa.tanggal_sewa,
    -> \c
MariaDB [sewamobil]> select
    -> sewa.no_faktur as no_faktur_sewa,
    -> pelanggan.nama,
    -> sewa.tanggal_sewa,
    -> mobil.jenis,
    -> mobil.merk,
    -> sewa.lama_sewa,
    -> sewa.uang_muka
    -> from sewa
    -> inner join pelanggan on sewa.kode_pelanggan = pelanggan.kode
    -> inner join mobil on sewa.kode_mobil = mobil.kode;
+----------------+------------+--------------+-------+-----------+-----------+-----------+
| no_faktur_sewa | nama       | tanggal_sewa | jenis | merk      | lama_sewa | uang_muka |
+----------------+------------+--------------+-------+-----------+-----------+-----------+
| F001           | PT FOX RIV | 2008-12-01   | SEDAN | BMW E5    |         2 |    200000 |
| F003           | CV FOXCON  | 2008-12-02   | SEDAN | HONDA CRV |         1 |    100000 |
| F002           | CV FOXCON  | 2008-12-01   | BUS   | MERCEDEZ  |         2 |    200000 |
+----------------+------------+--------------+-------+-----------+-----------+-----------+
3 rows in set (0.03 sec)
```

5. Menampilkan nama, kota, no_faktur_sewa, tanggal sewa, kode mobil, lama sewa, uang muka

Disini kita menggunakan left join antara dua tabel

```
MariaDB [sewamobil]> select
    -> pelanggan.nama,
    -> pelanggan.kota,
    -> sewa.no_faktur as no_faktur_sewa,
    -> sewa.tanggal_sewa,
    -> sewa.lama_sewa,
    -> sewa.uang_muka
    -> from pelanggan
    -> left join sewa on pelanggan.kode = sewa.kode_pelanggan;
+-----------+----------+----------------+--------------+-----------+-----------+
| nama      | kota     | no_faktur_sewa | tanggal_sewa | lama_sewa | uang_muka |
+-----------+----------+----------------+--------------+-----------+-----------+
| PT FOX RIV| BENGKULU | F001           | 2008-12-01   |         2 |    200000 |
| CV FOXCON | JAKARTA  | F002           | 2008-12-01   |         2 |    200000 |
| CV FOXCON | JAKARTA  | F003           | 2008-12-02   |         1 |    100000 |
| PT FARMACO| LAMPUNG  | NULL           | NULL         |      NULL |      NULL |
+-----------+----------+----------------+--------------+-----------+-----------+
4 rows in set (0.00 sec)
```