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Modul 4 Sistem Basis Data

Praktikum

```
MariaDB [(none)]> create database perbankan
    -> ;
Query OK, 1 row affected (0.08 sec)

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> create table nasabah(
    -> id_nasabah integer primary key,
    -> nama_nasabah varchar(45) not null,
    -> alamat_nasabah varchar(255) not null
    -> );
Query OK, 0 rows affected (0.15 sec)

MariaDB [perbankan]> create table cabang_bank(
    -> kode_cabang varchar(20) primary key,
    -> nama_cabang varchar(45) unique not null,
    -> alamat_cabang varchar(255) not null
    -> );
Query OK, 0 rows affected (0.16 sec)

MariaDB [perbankan]> create table rekening(
    -> no_rekening integer primary key,
    -> kode_cabangFK varchar(20) REFERENCES cabnag_bank(kode_cabang)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> pin varchar(20) default '1234' not null,
    -> saldo integer default 0 not null
    -> );
Query OK, 0 rows affected (0.14 sec)
MariaDB [perbankan]> create table transaksi(
    -> no_transaksi SERIAL primary key,
    -> id_nasabahFK integer REFERENCES nasabah(id_nasabah)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    ->
    -> no_rekeningFK integer REFERENCES rekening(no_rekening)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> jenis_transaksi varchar(20) DEFAULT 'debit' not null,
    -> tanggal datetime not null DEFAULT CURRENT_TIMESTAMP,
    -> jumlah integer not null CHECK(jumlah>=2000)
    -> );
Query OK, 0 rows affected (0.03 sec)
```

```
MariaDB [perbankan]> create table nasabah_has_rekening(
    -> id_nasabahFK integer references nasabah(id_nasabah)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> no_rekeningFK integer references rekening(no_rekening)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> primary key(id_nasabahFK, no_rekeningFK)
    -> );
Query OK, 0 rows affected (0.14 sec)

MariaDB [perbankan]> show tables;
+----------------------+
| Tables_in_perbankan  |
+----------------------+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+----------------------+
5 rows in set (0.00 sec)

MariaDB [perbankan]> describe nasabah
    -> ;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| id_nasabah     | int(11)      | NO   | PRI | NULL    |       |
| nama_nasabah   | varchar(45)  | NO   |     | NULL    |       |
| alamat_nasabah | varchar(255) | NO   |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
3 rows in set (0.02 sec)

MariaDB [perbankan]>
```

Tugas

```
MariaDB [(none)]> create database bioskop_new;
Query OK, 1 row affected (0.02 sec)

MariaDB [(none)]> use bioskop_new;
Database changed
MariaDB [bioskop_new]> create table pembeli(
    -> id_buyer varchar(20) primary key,
    -> id_tiketFK varchar(20) references tiket(id_tiket)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> nama_buyer varchar(45) not null,
    -> alamat_buyer varchar(255) not null
    -> );
Query OK, 0 rows affected (0.09 sec)

MariaDB [bioskop_new]> create table pembeli_has_tiket(
    -> id_buyerFK varchar(20) references pembeli(id_buyer)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_tiketFK varchar(20) references tiket(id_tiket)
    -> ON DELETE CASCADE ON UPDATE CASCADE
    -> );
Query OK, 0 rows affected (0.17 sec)

MariaDB [bioskop_new]> create table tiket(
    -> id_tiket varchar(20) primary key,
    -> harga integer not null,
    -> teater integer not null
    -> );
Query OK, 0 rows affected (0.13 sec)

MariaDB [bioskop_new]> create table pembeli_has_film(
    -> id_buyerFK varchar(20) references pembeli(id_buyer)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_filmFK integer references film(id_film)
    -> ON DELETE CASCADE ON UPDATE CASCADE
    -> );
Query OK, 0 rows affected (0.09 sec)

MariaDB [bioskop_new]> create table member(
    -> type_2 varchar(20) primary key,
    -> id_buyerFK varchar(20) references pembeli(id_buyer)
    -> ON DELETE CASCADE ON UPDATE CASCADE
    -> );
Query OK, 0 rows affected (0.13 sec)
```

```
MariaDB [bioskop_new]> create table film(
    -> id_film integer not null primary key,
    -> id_tiketFK varchar(20) references tiket(id_tiket)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> judul varchar(45) not null,
    -> genre varchar(20) not null
    -> );
Query OK, 0 rows affected (0.14 sec)

MariaDB [bioskop_new]> create table teater(
    -> type_2 varchar(20) primary key,
    -> id_filmFK integer not null references film(id_film)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_tiketFK varchar(20) not null references tiket(id_tiket)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> no_kursi integer,
    -> no_teater integer
    -> );
Query OK, 0 rows affected (0.17 sec)

MariaDB [bioskop_new]> show tables
    -> ;
+-----------------------+
| Tables_in_bioskop_new |
+-----------------------+
| film                  |
| member                |
| pembeli               |
| pembeli_has_film      |
| pembeli_has_tiket     |
| teater                |
| tiket                 |
+-----------------------+
7 rows in set (0.00 sec)

MariaDB [bioskop_new]> describe pembeli
    -> ;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| id_buyer     | varchar(20)  | NO   | PRI | NULL    |       |
| id_tiketFK   | varchar(20)  | YES  |     | NULL    |       |
| nama_buyer   | varchar(45)  | NO   |     | NULL    |       |
| alamat_buyer | varchar(255) | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
4 rows in set (0.11 sec)

MariaDB [bioskop_new]>
```