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## LAPORAN PRAKTIKUM SISTEM BASIS DATA

### Kegiatan Modul 4

```
C:\xampp\mysql\bin>mysql -u root -p
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.18-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.009 sec)

MariaDB [(none)]> use database perbankan;
ERROR 1049 (42000): Unknown database 'database'
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);
ERROR 1060 (42S21): Duplicate column name 'alamat_nasabah'
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 (0.029 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 (0.040 sec)

MariaDB [perbankan]> create table rekening(no_rekening integer primary key, kode_cabangFK varchar(20) reference cabang_bank(kode_cabang) on delete cascade on update cascade, pin varchar(20) default '1234' not null, saldo integer default 0 not null);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'cabang_bank(kode_cabang) on delete cascade on update cascade, pin varchar(20) default '1234' not null, saldo integer default 0 not null);' at line 1
MariaDB [perbankan]> create table rekening(no_rekening integer primary key, kode_cabangFK varchar(20) reference cabang_bank(kode_cabang) on delete cascade on update cascade, pin varchar(20) default '1234' not null, saldo integer default 0 not null);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'cabang_bank(kode_cabang) on delete cascade on update cascade, pin varchar(20) default '1234' not null, saldo integer default 0 not null);' at line 1
MariaDB [perbankan]> create table rekening(no_rekening integer primary key, kode_cabangFK varchar(20) references cabang_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 (0.042 sec)

MariaDB [perbankan]> create table transaksi(no_transaksi serial primary key, id_nasabahFK integer references nasabah(id_nasabah) on delete set null on update cascade, no_rekeningFK integer references rekening(no_rekening) on delete set null on update cascade, jenis_transaksi varchar(20) default 'debit' not null, tanggal datetime not null default current_timestamp, jumlah integer not null check(jumlah>20000));
Query OK, 0 rows affected (0.038 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));
```

```
MariaDB [perbankan]> show tables;
```

| Tables_in_perbankan  |
|----------------------|
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |

```
5 rows in set (0.010 sec)
```

```
MariaDB [perbankan]> describe cabang_bank;
```

| Field         | Type         | Null | Key | Default | Extra |
|---------------|--------------|------|-----|---------|-------|
| kode_cabang   | varchar(20)  | NO   | PRI |         |       |
| nama_cabang   | varchar(45)  | NO   | UNI |         |       |
| alamat_cabang | varchar(255) | NO   |     |         |       |

```
3 rows in set (0.025 sec)
```

```
MariaDB [perbankan]> describe nasabah;
```

| Field          | Type         | Null | Key | Default | Extra |
|----------------|--------------|------|-----|---------|-------|
| id_nasabah     | int(11)      | NO   | PRI |         |       |
| nama_nasabah   | varchar(45)  | NO   |     |         |       |
| alamat_nasabah | varchar(255) | NO   |     |         |       |

```
3 rows in set (0.022 sec)
```

```
MariaDB [perbankan]> describe nasabah_has_rekening
```

```
-> ;
```

| Field         | Type    | Null | Key | Default | Extra |
|---------------|---------|------|-----|---------|-------|
| id_nasabahFK  | int(11) | NO   | PRI |         |       |
| no_rekeningFK | int(11) | NO   | PRI |         |       |

```
2 rows in set (0.020 sec)
```

```
MariaDB [perbankan]> describe rekening;
```

| Field         | Type        | Null | Key | Default | Extra |
|---------------|-------------|------|-----|---------|-------|
| no_rekening   | int(11)     | NO   | PRI |         |       |
| kode_cabangFK | varchar(20) | YES  |     |         |       |
| pin           | varchar(20) | NO   |     | 1234    |       |

```
4 rows in set (0.020 sec)
```

```
MariaDB [perbankan]> describe rekening;
```

| Field         | Type        | Null | Key | Default | Extra |
|---------------|-------------|------|-----|---------|-------|
| no_rekening   | int(11)     | NO   | PRI |         |       |
| kode_cabangFK | varchar(20) | YES  |     |         |       |
| pin           | varchar(20) | NO   |     | 1234    |       |
| saldo         | int(11)     | NO   |     | 0       |       |

```
4 rows in set (0.031 sec)
```

```
MariaDB [perbankan]> describe transaksi;
```

| Field           | Type                | Null | Key | Default             | Extra          |
|-----------------|---------------------|------|-----|---------------------|----------------|
| no_transaksi    | bigint(20) unsigned | NO   | PRI |                     | auto_increment |
| id_nasabahFK    | int(11)             | YES  |     |                     |                |
| no_rekeningFK   | int(11)             | YES  |     |                     |                |
| jenis_transaksi | varchar(20)         | NO   |     | debit               |                |
| tanggal         | datetime            | NO   |     | current_timestamp() |                |
| jumlah          | int(11)             | NO   |     |                     |                |

```
6 rows in set (0.024 sec)
```

```
MariaDB [perbankan]>
```