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MODUL 4

1. Membuat tabel nasabah

```
C:\Windows\System32\cmd.exe - mysql -u root -p

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 32
Server version: 10.1.36-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.00 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(225) NOT NULL
  -> );
Query OK, 0 rows affected (0.27 sec)

MariaDB [perbankan]>
```

2. Membuat tabel cabang_bank

```
C:\Windows\System32\cmd.exe - mysql -u root -p

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 32
Server version: 10.1.36-MariaDB mariadb.org binary distribution

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MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.00 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(225) NOT NULL
  -> );
Query OK, 0 rows affected (0.27 sec)

MariaDB [perbankan]> CREATE TABLE cabang_bank (
  -> kode_cabang VARCHAR(20) PRIMARY KEY,
  -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
  -> alamat_cabang VARCHAR(225) NOT NULL
  -> );
Query OK, 0 rows affected (0.23 sec)

MariaDB [perbankan]>
```

3. Membuat tabel rekening

```
C:\Windows\System32\cmd.exe - mysql -u root -p

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 (0.20 sec)

MariaDB [perbankan]>
```

4. Membuat tabel transaksi

```
C:\Windows\System32\cmd.exe - mysql -u root -p

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 (0.23 sec)

MariaDB [perbankan]>
```

5. Membuat tabel nasabah_has_rekening

```
C:\Windows\System32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening (
  -> 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,
  -> PRIMARY KEY(id_nasabahFK, no_rekeningFK)
  -> );
Query OK, 0 rows affected (0.20 sec)
MariaDB [perbankan]>
```

6. Cek database

```
C:\Windows\System32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+-----+
5 rows in set (0.00 sec)
MariaDB [perbankan]>
```

7. Cek struktur database

```
C:\Windows\System32\cmd.exe - mysql -u root -p
-> );
Query OK, 0 rows affected (0.20 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_has_rekening
-> ;
+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+
| id_nasabahFK   | int(11)       | NO   | PRI | NULL    |       |
| no_rekeningFK  | int(11)       | NO   | PRI | NULL    |       |
+-----+
2 rows in set (0.01 sec)

MariaDB [perbankan]> describe transaksi;
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 'describe tra
nsaksi' at line 1
MariaDB [perbankan]> describe transaksi;
+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+
| no_transaksi   | bigint(20) unsigned | NO   | PRI | NULL    | auto_increment |
| id_nasabahFK   | int(11)       | YES  |     | NULL    |               |
| no_rekeningFK  | int(11)       | YES  |     | NULL    |               |
| jenis_transaksi | varchar(20)    | NO   |     | debit   |               |
| tanggal        | datetime      | NO   |     | CURRENT_TIMESTAMP |               |
| jumlah         | int(11)       | NO   |     | NULL    |               |
+-----+
6 rows in set (0.02 sec)

MariaDB [perbankan]> _
```