

Nama: Rama Dhanu Darmawan S.
NIM: L200180110
Kelas: D

Pembuatan tabel 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 (0.019 sec)  
  
MariaDB [perbankan]> show tables;  
+-----+  
| Tables_in_perbankan |  
+-----+  
| nasabah              |  
+-----+  
1 row in set (0.002 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 (0.021 sec)
```

Pembuatan tabel cabang_bank

```
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 (0.020 sec)
```

```
MariaDB [perbankan]> describe cabang_bank;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| kode_cabang | varchar(20) | NO | PRI | NULL | |  
| nama_cabang | varchar(45) | NO | UNI | NULL | |  
| alamat_cabang | varchar(255) | NO | | NULL | |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.016 sec)
```

Pembuatan tabel rekening

```
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 (0.020 sec)
```

```
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 | | NULL | |  
| tanggal | datetime | NO | | current_timestamp() | |  
| jumlah | int(11) | NO | | NULL | |  
+-----+-----+-----+-----+-----+-----+  
6 rows in set (0.015 sec)
```

Pembuatan tabel nasabah_has_rekening

```
MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening;  
ERROR 1113 (42000): A table must have at least 1 column  
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 (0.020 sec)  
  
MariaDB [perbankan]> show database;  
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 'database' a  
MariaDB [perbankan]> show tables;  
+-----+  
| Tables_in_perbankan |  
+-----+  
| cabang_bank          |  
| nasabah              |  
| nasabah_has_rekening |  
| rekening             |  
| transaksi            |  
+-----+  
5 rows in set (0.001 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 (0.014 sec)
```

Tugas (berdasarkan apa yang saya kirim di tugas sebelumnya)
Pembuatan Database

```
MariaDB [(none)]> create database Kampus;  
Query OK, 1 row affected (0.001 sec)  
  
MariaDB [(none)]> use Kampus;  
Database changed
```

Pembuatan Tabel Mahasiswa

```
MariaDB [Kampus]> CREATE TABLE Mahasiswa(  
  -> nomor_id INTEGER PRIMARY KEY,  
  -> nama_mahasiswa VARCHAR(45) NOT NULL,  
  -> nim VARCHAR(20) NOT NULL);  
Query OK, 0 rows affected (0.015 sec)
```

Pembuatan Tabel Dosen

```
MariaDB [Kampus]> CREATE TABLE Dosen(  
  -> nomor_id_dosen INTEGER PRIMARY KEY,  
  -> nama_dosen VARCHAR(45) NOT NULL,  
  -> mata_kuliah_ajar VARCHAR(200) NOT NULL);  
Query OK, 0 rows affected (0.014 sec)
```

Pembuatan Tabel Mata Kuliah

```
MariaDB [Kampus]> CREATE TABLE MataKuliah(  
  -> mata_kuliah_id INTEGER PRIMARY KEY,  
  -> nomor_id_dosenFK INTEGER REFERENCES Dosen(nomor_id_dosen)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> ruang_kelas_idFK INTEGER REFERENCES RuangKelas(ruang_kelas_id)  
  -> ON DELETE SET NULL ON UPDATE CASCADE);  
Query OK, 0 rows affected (0.013 sec)
```

Pembuatan Tabel Ruang Kelas

```
MariaDB [Kampus]> CREATE TABLE RuangKelas(  
  -> ruang_kelas_id INTEGER PRIMARY KEY,  
  -> waktu DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP);  
Query OK, 0 rows affected (0.012 sec)
```

Pembuatan Tabel Lainnya

```
MariaDB [Kampus]> CREATE TABLE Konsultasi(  
  -> nomor_idFK INTEGER REFERENCES Mahasiswa(nomor_id)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> nomor_id_dosenFK INTEGER REFERENCES Dosen(nomor_id_dosen)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> PRIMARY KEY(nomor_idFK, nomor_id_dosenFK));  
Query OK, 0 rows affected (0.016 sec)  
  
MariaDB [Kampus]> CREATE TABLE MataKuliahSemesterIni(  
  -> nomor_idFK INTEGER REFERENCES Mahasiswa(nomor_id)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> mata_kuliah_idFK INTEGER REFERENCES MataKuliah(mata_kuliah_id)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> PRIMARY KEY(nomor_idFK, mata_kuliah_idFK));  
Query OK, 0 rows affected (0.014 sec)
```

Hasil pembuatan table

```
MariaDB [Kampus]> show tables;
+-----+
| Tables_in_kampus |
+-----+
| dosen             |
| konsultasi        |
| mahasiswa         |
| matakuliah        |
| matakuliahsemesterini |
| ruangkelas       |
+-----+
6 rows in set (0.001 sec)

MariaDB [Kampus]> describe dosen;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nomor_id_dosen | int(11) | NO | PRI | NULL | |
| nama_dosen     | varchar(45) | NO | | NULL | |
| mata_kuliah_ajar | varchar(200) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.007 sec)

MariaDB [Kampus]> describe konsultasi;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nomor_idFK | int(11) | NO | PRI | NULL | |
| nomor_id_dosenFK | int(11) | NO | PRI | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.007 sec)

MariaDB [Kampus]> describe mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nomor_id | int(11) | NO | PRI | NULL | |
| nama_mahasiswa | varchar(45) | NO | | NULL | |
| nim      | varchar(20) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.010 sec)

MariaDB [Kampus]> describe matakuliah;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| mata_kuliah_id | int(11) | NO | PRI | NULL | |
| nomor_id_dosenFK | int(11) | YES | | NULL | |
| ruang_kelas_idFK | int(11) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.007 sec)

MariaDB [Kampus]> describe matakuliahsemesterini;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nomor_idFK | int(11) | NO | PRI | NULL | |
| mata_kuliah_idFK | int(11) | NO | PRI | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.010 sec)

MariaDB [Kampus]> describe ruangkelas;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ruang_kelas_id | int(11) | NO | PRI | NULL | |
| waktu         | datetime | NO | | current_timestamp() | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.005 sec)

MariaDB [Kampus]> _
```