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## Tugas Modul 4

a. Membuat database dan memakainya

```
MariaDB [(none)]> create database modul4
-> ;
Query OK, 1 row affected (0.01 sec)
MariaDB [(none)]> use modul4;
Database changed
```

b. Membuat table yang dibutuhkan

```
MariaDB [modul4]> CREATE TABLE MAHASISWA(
   -> NIM INTEGER PRIMARY KEY,
   -> Nama mahasiswa VARCHAR(45) NOT NULL,
   -> alamat mahasiswa VARCHAR(225) NOT NULL
   -> );
Query OK, 0 rows affected (0.35 sec)
MariaDB [modul4]> CREATE TABLE DOSEN(
   -> NIP INTEGER PRIMARY KEY,
   -> Nama_dosen VARCHAR(45) NOT NULL,
   -> alamat dosen VARCHAR(225) NOT NULL
   -> );
Query OK, 0 rows affected (0.37 sec)
MariaDB [modul4]> CREATE TABLE MATA_KULIAH(
   -> Kode_MK VARCHAR(10) PRIMARY KEY,
   -> Nama MK VARCHAR(20) NOT NULL
   -> );
Query OK, 0 rows affected (0.26 sec)
MariaDB [modul4]> CREATE TABLE RUANG_KELAS(
   -> Kode_kelas VARCHAR(5) PRIMARY KEY,
   -> Jenis_fungsi VARCHAR(10) NOT NULL
Query OK, 0 rows affected (0.29 sec)
```

c. Membuat table relantionship

```
MariaDB [modul4]> CREATE TABLE mahasiswa has dosen(
    -> NIMFK INTEGER REFERENCES MAHASISWA(NIM)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> NIPFK INTEGER REFERENCES DOSEN(NIP)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(NIMFK, NIPFK)
    -> );
Query OK, 0 rows affected (0.32 sec)
MariaDB [modul4]> CREATE TABLE mahasiswa has mata kuliah(
    -> NIMFK INTEGER REFERENCES MAHASISWA(NIM)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> Kode_MKFK INTEGER REFERENCES MATA_KULIAHN(Kode_MK)
   -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(NIMFK, Kode_MKFK)
    -> );
Query OK, 0 rows affected (0.25 sec)
MariaDB [modul4]> CREATE TABLE dosen_has_mata_kuliah(
    -> NIPFK INTEGER REFERENCES DOSEN(NIP)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> Kode MKFK INTEGER REFERENCES MATA KULIAHN(Kode MK)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(NIPFK, Kode_MKFK)
    -> );
Query OK, 0 rows affected (0.25 sec)
MariaDB [modul4]> CREATE TABLE mata_kuliah_has_ruang_kelas(
    -> Kode MKFK INTEGER REFERENCES MATA KULIAHN(Kode MK)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> Kode_KelasFK VARCHAR(5) REFERENCES RUANG KELAS(Kode kelas)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(Kode_MKFK)
Query OK, 0 rows affected (0.38 sec)
```

d. Melihat tables yang telah dibuat