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Kelas : C

Tugas Sistem Basis Data

1. Membuat database kuliah

```
MariaDB [(none)]> create database kuliah;
Query OK, 1 row affected (0.037 sec)

MariaDB [(none)]> use kuliah;
Database changed

MariaDB [kuliah]> create table mahasiswa(
    -> nim INTEGER PRIMARY KEY,
    -> nama VARCHAR(45) NOT NULL,
    -> alamat VARCHAR(255) NOT NULL
    -> );
Query OK, 0 rows affected (0.814 sec)

MariaDB [kuliah]>
```

2. Membuat table mahasiswa, dosen, mata kuliah, ruang kelas

```
Command Prompt - mysql -u root -p
                                                                                                                 MariaDB [(none)]> use kuliah;
Database changed
Database changed
MariaDB [kuliah]> create table mahasiswa(
-> nim INTEGER PRIMARY KEY,
-> nama VARCHAR(45) NOT NULL,
-> alamat VARCHAR(255) NOT NULL
Query OK, 0 rows affected (0.814 sec)
MariaDB [kuliah]> create table dosen(
   -> nip_dosen INTEGER PRIMARY KEY,
   -> nama_dosen VARCHAR(45) NOT NULL,
-> alamat_dosen VARCHAR(255) NOT NULL
\Omegauery OK, 0 rows affected (0.391 sec)
MariaDB [kuliah]> create table mata_kuliah(
    -> id mk INTEGER PRIMARY KEY
    -> nama_mk VARCHAR(25) NOT NULL
Query OK, 0 rows affected (0.335 sec)
MariaDB [kuliah]> create table ruang_kelas(
   -> id_ruang INTEGER PRIMARY KEY,
    -> nama_ruang VARCHAR(25) NOT NULL
Query OK, 0 rows affected (1.940 sec)
MariaDB[kuliah]> 🕳
MariaDB [kuliah]> create table mahasiswa_has_dosen(
      -> nim_mhsFK INTEGER REFERENCES mahasiswa(nim_mhs)
      -> ON DELETE CASCADE ON UPDATE CASCADE,
      -> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen)
      -> ON DELETE CASCADE ON UPDATE CASCADE
      -> );
Query OK, 0 rows affected (0.500 sec)
```

```
MariaDB [kuliah]> create table mahasiswa_has_mata_kuliah(
      -> nim_mhsFK INTEGER REFERENCES mahasiswa(nim_mhs)
       -> ON DELETE CASCADE ON UPDATE CASCADE,
       -> id_mkFK INTEGER REFERENCES mata_kuliah(id_mk)
       -> ON DELETE CASCADE ON UPDATE CASCADE,
       -> PRIMARY KEY(nim mhsFK,id mkFK)
       -> );
   Query OK, 0 rows affected (0.451 sec)
   MariaDB [kuliah]>
   MariaDB [kuliah]> create table dosen has mata kuliah(
       -> nip dosenFK INTEGER REFERENCES dosen(nip dosen)
       -> ON DELETE CASCADE ON UPDATE CASCADE,
       -> id_mkFK INTEGER REFERENCES mata_kuliah(id_mk)
       -> ON DELETE CASCADE ON UPDATE CASCADE,
       -> PRIMARY KEY(nip dosenFK,id mkFK)
       -> );
   Query OK, 0 rows affected (2.023 sec)
   MariaDB [kuliah]> _
3. Melihat semua table
   MariaDB [kuliah]> show tables;
   | Tables_in_kuliah
    dosen
    dosen has mata kuliah
```

MariaDB [kuliah]>

```
MariaDB [kuliah]> describe dosen;
| Field | Type | Null | Key | Default | Extra |
3 rows in set (0.104 sec)
MariaDB [kuliah]> describe mat kuliah;
ERROR 1146 (42S02): Table 'kuliah.mat_kuliah' doesn't exist
MariaDB [kuliah]> describe mata_kuliah;
| Field | Type | Null | Key | Default | Extra |
2 rows in set (0.068 sec)
MariaDB [kuliah]> _
MariaDB [kuliah]> describe ruang kelas;
| Field | Type | Null | Key | Default | Extra |
id_ruang | int(11) | NO
                       | PRI | NULL
| nama_ruang | varchar(25) | NO | | NULL
2 rows in set (0.049 sec)
MariaDB [kuliah]> describe dosen has mata kuliah;
+-----
| Field | Type | Null | Key | Default | Extra |
2 rows in set (0.043 sec)
MariaDB [kuliah]> describe mahasiswa has dosen;
2 rows in set (0.043 sec)
MariaDB [kuliah]> _
```