Khumaila Masfarina Yusrifa
L200180198/G
Tugas Modul 4

```
MariaDB [(none)]> create database tugas4;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> use tugas4;
Database changed

MariaDB [tugas4]> CREATE TABLE mahasiswa(
    -> nim INTEGER PRIMARY KEY,
    -> nama_mahasiswa VARCHAR(45) NOT NULL,
    -> alamat_mahasiswa VARCHAR(255) NOT NULL
    -> );
Query OK, 0 rows affected (0.193 sec)

MariaDB [tugas4]> desc mahasiswa;
+------------------+--------------+------+-----+---------+-------+
| Field            | Type         | Null | Key | Default | Extra |
+------------------+--------------+------+-----+---------+-------+
| nim              | int(11)      | NO   | PRI | NULL    |       |
| nama_mahasiswa   | varchar(45)  | NO   |     | NULL    |       |
| alamat_mahasiswa | varchar(255) | NO   |     | NULL    |       |
+------------------+--------------+------+-----+---------+-------+
3 rows in set (0.019 sec)

MariaDB [tugas4]>
```

```
MariaDB [tugas4]> CREATE TABLE dosen(
    -> id_dosen INTEGER PRIMARY KEY,
    -> nama_dosen VARCHAR(45) NOT NULL,
    -> alamat_dosen VARCHAR(255) NOT NULL
    -> );
Query OK, 0 rows affected (0.905 sec)

MariaDB [tugas4]> desc dosen;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| id_dosen     | int(11)      | NO   | PRI | NULL    |       |
| nama_dosen   | varchar(45)  | NO   |     | NULL    |       |
| alamat_dosen | varchar(255) | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
3 rows in set (0.006 sec)
```

```
MariaDB [tugas4]> CREATE TABLE matkul(
    -> id_matkul INTEGER PRIMARY KEY,
    -> nama_matkul VARCHAR(45) NOT NULL,
    -> dosen_pengampu VARCHAR(45) NOT NULL
    -> );
Query OK, 0 rows affected (0.214 sec)

MariaDB [tugas4]> desc matkul;
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| id_matkul      | int(11)     | NO   | PRI | NULL    |       |
| nama_matkul    | varchar(45) | NO   |     | NULL    |       |
| dosen_pengampu | varchar(45) | NO   |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
3 rows in set (0.006 sec)
```

```
MariaDB [tugas4]> CREATE TABLE ruangan(
    -> id_ruangan INTEGER PRIMARY KEY,
    -> nama_ruangan VARCHAR(45) NOT NULL,
    -> daya_tampung VARCHAR(20) NOT NULL
    -> );
Query OK, 0 rows affected (0.393 sec)

MariaDB [tugas4]> desc ruangan;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| id_ruangan   | int(11)     | NO   | PRI | NULL    |       |
| nama_ruangan | varchar(45) | NO   |     | NULL    |       |
| daya_tampung | varchar(20) | NO   |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
3 rows in set (0.006 sec)

MariaDB [tugas4]>
```

```
MariaDB [tugas4]> CREATE TABLE dosen_mengampu_mahasiswa(
    -> id_dosenFK INTEGER REFERENCES dosen(id_dosen)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> nimFK INTEGER REFERENCES mahasiswa(nim)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(id_dosenFK, nimFK)
    -> );
Query OK, 0 rows affected (0.229 sec)

MariaDB [tugas4]> desc dosen_mengampu_mahasiswa;
+------------+---------+------+-----+---------+-------+
| Field      | Type    | Null | Key | Default | Extra |
+------------+---------+------+-----+---------+-------+
| id_dosenFK | int(11) | NO   | PRI | NULL    |       |
| nimFK      | int(11) | NO   | PRI | NULL    |       |
+------------+---------+------+-----+---------+-------+
2 rows in set (0.022 sec)
```

```
MariaDB [tugas4]> CREATE TABLE dosen_mengampu_matkul(
    -> id_matkulFK INTEGER REFERENCES matkul(id_matkul)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_dosenFK INTEGER REFERENCES dosen(id_dosen)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(id_dosenFK, id_matkulFK)
    -> );
Query OK, 0 rows affected (0.196 sec)

MariaDB [tugas4]> desc dosen_mengampu_matkul;
+------------+----------+------+-----+---------+-------+
| Field      | Type     | Null | Key | Default | Extra |
+------------+----------+------+-----+---------+-------+
| id_matkulFK | int(11) | NO   | PRI | NULL    |       |
| id_dosenFK  | int(11) | NO   | PRI | NULL    |       |
+------------+----------+------+-----+---------+-------+
2 rows in set (0.006 sec)

MariaDB [tugas4]> CREATE TABLE mahasiswa_mengambil_matkul(
    -> nimFK INTEGER REFERENCES mahasiswa(nim)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_matkulFK INTEGER REFERENCES matkul(id_matkul)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(id_matkulFK, nimFK)
    -> );
Query OK, 0 rows affected (0.254 sec)

MariaDB [tugas4]> desc mahasiswa_mengambil_matkul;
+------------+----------+------+-----+---------+-------+
| Field      | Type     | Null | Key | Default | Extra |
+------------+----------+------+-----+---------+-------+
| nimFK      | int(11)  | NO   | PRI | NULL    |       |
| id_matkulFK | int(11) | NO   | PRI | NULL    |       |
+------------+----------+------+-----+---------+-------+
2 rows in set (0.006 sec)
```

```
MariaDB [tugas4]> CREATE TABLE matkul_has_ruangan(
    -> id_ruanganFK INTEGER REFERENCES ruangan(id_ruangan)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_matkulFK INTEGER REFERENCES matkul(id_matkul)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(id_matkulFK, id_ruanganFK)
    -> );
Query OK, 0 rows affected (0.312 sec)

MariaDB [tugas4]> desc matkul_has_ruangan;
+-------------+---------+------+-----+---------+-------+
| Field       | Type    | Null | Key | Default | Extra |
+-------------+---------+------+-----+---------+-------+
| id_ruanganFK | int(11) | NO  | PRI | NULL    |       |
| id_matkulFK  | int(11) | NO  | PRI | NULL    |       |
+-------------+---------+------+-----+---------+-------+
2 rows in set (0.006 sec)

MariaDB [tugas4]>
```