Nama   : Ghani Prasetia

NIM   : L200180185

1. Membuat database kuliah dan table dosen

2. Membuat table mata_kuliah , mahasiswa, ruang, dosen_has_mahasiswa, mahasiswa_has_matkul, table dosen_has_matkul

```
Command Prompt - mysql  -u root -p                                                    —    □    ×

MariaDB [kuliah]> create table mata_kuliah(
    -> kode_mk integer primary key,
    -> nama_mk varchar(50) not null,
    -> jumlah_mk integer default 0 not null);
Query OK, 0 rows affected (1.734 sec)

MariaDB [kuliah]> create table mahasiswa(
    -> nim_mhs varchar(20) primary key,
    -> nama_mhs varchar(45) not null,
    -> alamat_mhs varchar(255) not null,
    -> kode_ruangFK integer references ruang(kode_ruang) on delete set null on update cascade);
Query OK, 0 rows affected (0.405 sec)

MariaDB [kuliah]> create table ruang(
    -> kode_ruang integer primary key,
    -> nama_ruang varchar(50) not null,
    -> kapasitas_ruang integer default 0 not null);
Query OK, 0 rows affected (0.052 sec)

MariaDB [kuliah]> create table dosen_has_mahasiswa(
    -> nip_dosenFK integer references dosen(nip_dosen)
    -> on delete set null on update cascade,
    -> nim_mhsFK varchar(20) references mahasiswa(nim_mhs)
    -> on delete set null on update cascade);
Query OK, 0 rows affected (1.738 sec)

MariaDB [kuliah]> create table mahasiswa_has_matkul(
    -> nim_mhsFK varchar(20) references mahasiswa(nim_mhs)
    -> on delete set null on update cascade,
    -> kode_mkFK integer references matkul(kode_mk)
    -> on delete set null on update cascade,
    -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your Mari
aDB server version for the right syntax to use near ')' at line 6
MariaDB [kuliah]> create table mahasiswa_has_matkul(
    -> nim_mhsFK varchar(20) references mahasiswa(nim_mhs)
    -> on delete set null on update cascade,
    -> kode_mkFK integer references matkul(kode_mk)
    -> on delete set null on update cascade);
Query OK, 0 rows affected (0.033 sec)

MariaDB [kuliah]> create table dosen_has_matkul(
    -> nip_dosenFK integer references dosen(nip_dosen)
    -> on delete set null on update cascade,
    -> kode_mkFK integer references matkul(kode_mk)
    -> on delete set null on update cascade);
Query OK, 0 rows affected (0.052 sec)

MariaDB [kuliah]>
```

3. Show table dan describe per table

Command Prompt - mysql -u root -p

```
+---------------------+
| Tables_in_kuliah    |
+---------------------+
| dosen               |
| dosen_has_mahasiswa |
| dosen_has_matkul    |
| mahasiswa           |
| mahasiswa_has_matkul|
| mata_kuliah         |
| ruang               |
+---------------------+
7 rows in set (0.001 sec)

MariaDB [kuliah]> describe dosen;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| nip_dosen    | int(11)      | NO   | PRI | NULL    |       |
| nama_dosen   | varchar(50)  | NO   |     | NULL    |       |
| alamat_dosen | varchar(255) | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
3 rows in set (1.707 sec)

MariaDB [kuliah]> describe dosen_has_mahasiswa;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| nip_dosenFK | int(11)     | YES  |     | NULL    |       |
| nim_mhsFK   | varchar(20) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
2 rows in set (0.005 sec)

MariaDB [kuliah]> describe dosen_has_matkul;
+-------------+---------+------+-----+---------+-------+
| Field       | Type    | Null | Key | Default | Extra |
+-------------+---------+------+-----+---------+-------+
| nip_dosenFK | int(11) | YES  |     | NULL    |       |
| kode_mkFK   | int(11) | YES  |     | NULL    |       |
+-------------+---------+------+-----+---------+-------+
2 rows in set (0.004 sec)

MariaDB [kuliah]> describe mahasiswa;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| nim_mhs     | varchar(20)  | NO   | PRI | NULL    |       |
| nama_mhs    | varchar(45)  | NO   |     | NULL    |       |
| alamat_mhs  | varchar(255) | NO   |     | NULL    |       |
| kode_ruangFK| int(11)      | YES  |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
```

```
Command Prompt - mysql  -u root -p

MariaDB [kuliah]> describe mahasiswa_has_matkul;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| nim_mhsFK | varchar(20) | YES  |     | NULL    |       |
| kode_mkFK | int(11)     | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
2 rows in set (0.004 sec)

MariaDB [kuliah]> describe mata_kuliah;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| kode_mk   | int(11)     | NO   | PRI | NULL    |       |
| nama_mk   | varchar(50) | NO   |     | NULL    |       |
| jumlah_mk | int(11)     | NO   |     | 0       |       |
+-----------+-------------+------+-----+---------+-------+
3 rows in set (0.021 sec)
```