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## Tugas

1. Buka cmd lalu masuk ke direktori c:\xampp\mysql\bin masuk sebagai admin(mysql -u root -p) dan buat database universitas lalu menghubungkannya

```
c:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 5
Server version: 10.1.34-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create database universitas;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use universitas;
Database changed
MariaDB [universitas]> create table mahasiswa(
  -> NIM integer primary key,
  -> nama varchar(45) not null,
  -> alamat varchar(225) not null
  -> );
Query OK, 0 rows affected (0.42 sec)

MariaDB [universitas]> create table dosen(
  -> NIP integer primary key,
  -> nama varchar(45) not null,
  -> alamat varchar(225) not null
  -> );
Query OK, 0 rows affected (0.31 sec)

MariaDB [universitas]> create table matkul(
  -> id_mk integer primary key,
  -> nama_mk varchar(25) not null
  -> );
Query OK, 0 rows affected (0.33 sec)

MariaDB [universitas]> create table ruang_kelas(
  -> id_ruangan integer(10) primary key,
  -> nama_ruangan varchar(25) not null
  -> );
```

2. Lalu buat table mahasiswa,dosen,matkul,ruang\_kelas dan (tambahan- tambahan table m:n)

```
Microsoft Windows [Version 10.0.18362.657]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Convy_22nd>cd c:\xampp\mysql\bin

c:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 5
Server version: 10.1.34-MariaDB mariadb.org binary distribution

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  -> id_ruangan integer(10) primary key,
  -> nama_ruangan varchar(25) not null
  -> );
```

```
Select Command Prompt - mysql -u root -p
MariaDB [university]> create table ruang_kelas(
  -> id_ruangan integer(10) primary key,
  -> nama_ruangan varchar(25) not null
  -> );
Query OK, 0 rows affected (0.35 sec)

MariaDB [university]> 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 (0.29 sec)

MariaDB [university]> create table mahasiswa_has_matkul(
  -> NIMFK integer references mahasiswa(NIM)
  -> on delete cascade on update cascade,
  -> id_mkFK integer references matkul(id_mkFK)
  -> on delete cascade on update cascade,
  -> ,
  -> )
  -> );
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 ''
' at line 6
MariaDB [university]> create table mahasiswa_has_matkul(
  -> NIMFK integer references mahasiswa(NIM)
  -> on delete cascade on update cascade,
  -> id_mkFK integer references matkul(id_mkFK)
  -> on delete cascade on update cascade,
  -> primary key(NIMFK,id_mkFK)
  -> );
Query OK, 0 rows affected (0.31 sec)

MariaDB [university]> create table dosen_has_matkul(
  -> NIPFK integer references dosen(NIP)
  -> on delete cascade on update cascade,
  -> id_mkFK integer references matkul(id_mkFK)
  -> on delete cascade on update cascade,
  -> primary key(NIPFK,id_mkFK)
  -> );
Query OK, 0 rows affected (0.31 sec)

MariaDB [university]> drop table mahasiswa_has_dosen;
```

### 3. Setelah itu tampilkan table database university

```
Select Command Prompt - mysql -u root -p
Query OK, 0 rows affected (0.31 sec)

MariaDB [university]> drop table mahasiswa_has_dosen;
Query OK, 0 rows affected (0.60 sec)

MariaDB [university]> show tables;
+-----+
| Tables_in_university |
+-----+
| dosen                 |
| dosen_has_matkul      |
| mahasiswa             |
| mahasiswa_has_matkul  |
| matkul                |
| ruang_kelas           |
+-----+
6 rows in set (0.00 sec)
```

### 4. Tampilkan struktur tiap table university

```
MariaDB [university]> describe dosen;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| NIP   | int(11) | NO | PRI | NULL |      |
| nama  | varchar(45) | NO |      | NULL |      |
| alamat | varchar(225) | NO |      | NULL |      |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.14 sec)

MariaDB [university]> describe dosen_has_matkul;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| NIPFK | int(11) | NO | PRI | NULL |      |
| id_mkFK | int(11) | NO | PRI | NULL |      |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.04 sec)

MariaDB [university]> describe mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| NIM   | int(11) | NO | PRI | NULL |      |
| nama  | varchar(45) | NO |      | NULL |      |
| alamat | varchar(225) | NO |      | NULL |      |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.14 sec)
```

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

NIMFK | int(11) | NO | PRI | NULL |
id_mkFK | int(11) | NO | PRI | NULL |
2 rows in set (0.04 sec)

MariaDB [university]> describe mahasiswa;
+-----+-----+-----+-----+-----+-----+
Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
NIM | int(11) | NO | PRI | NULL |
nama | varchar(45) | NO | | NULL |
alamat | varchar(225) | NO | | NULL |
3 rows in set (0.06 sec)

MariaDB [university]> describe mahasiswa_has_matkul;
+-----+-----+-----+-----+-----+-----+
Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
NIMFK | int(11) | NO | PRI | NULL |
id_mkFK | int(11) | NO | PRI | NULL |
2 rows in set (0.03 sec)

MariaDB [university]> describe matkul;
+-----+-----+-----+-----+-----+-----+
Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
id_mk | int(11) | NO | PRI | NULL |
nama_mk | varchar(25) | NO | | NULL |
2 rows in set (0.09 sec)

MariaDB [university]> describe ruang_kelas;
+-----+-----+-----+-----+-----+-----+
Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
id_ruangan | int(10) | NO | PRI | NULL |
nama_ruangan | varchar(25) | NO | | NULL |
2 rows in set (0.02 sec)

MariaDB [university]> .
```