Nama: Abid Muhammad Taufiq

NIM : L200180059

Kelas: C

Modul 4

Tugas

Implementasikan hasil rancangan database yang menangani database pada tugas modul 2 ke dalam program mysql

a) Membuat database kuliah

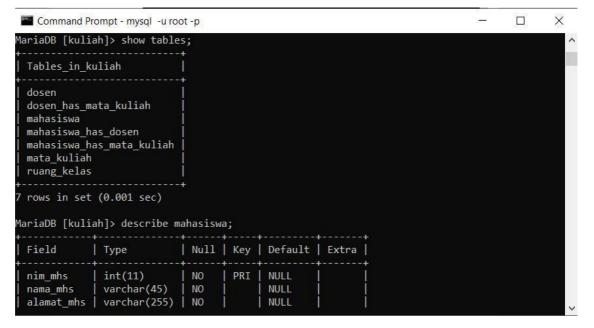
```
Command Prompt - mysql -u root -p
                                                                                               X
MariaDB [(none)]> create database kuliah;
ERROR 1007 (HY000): Can't create database 'kuliah'; database exists
MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> create table mahasiswa (
    -> nim INTEGER PRIMARY KEY,
-> nama VARCHAR(45) NOT NULL,
    -> alamat VARCHAR(255) NOT NULL
-> );
Query OK, 0 rows affected (0.029 sec)
MariaDB [kuliah]> drop database kuliah
-> ;
Query OK, 1 row affected (0.074 sec)
MariaDB [(none)]> create database kuliah;
Query OK, 1 row affected (0.001 sec)
MariaDB [(none)]> use kuliah;
Database changed
```

b) Membuat table mahasiswa,dosen,mata_kuliah,ruang_kelas

```
Command Prompt - mysql -u root -p
                                                                                     Database changed
MariaDB [kuliah]> create table mahasiswa (
   -> nim_mhs INTEGER PRIMARY KEY,
   -> nama_mhs VARCHAR(45) NOT NULL
   -> alamat_mhs VARCHAR(255) NOT NULL
Query OK, 0 rows affected (0.033 sec)
MariaDB [kuliah]> create table dosen (
   -> nip_dosen INTEGER PRIMARY KEY,
    -> nama_dosen VARCHAR(45) NOT NULL,
   -> alamat_dosen VARCHAR(255) NOT NULL
Query OK, 0 rows affected (0.028 sec)
MariaDB [kuliah]> create table mata_kuliah (
   -> id_mk INTEGER PRIMARY KEY,
    -> nama_mk varchar(25) NOT NULL
Query OK, 0 rows affected (0.027 sec)
Command Prompt - mysql -u root -p
                                                                                      X
MariaDB [kuliah]> create table ruang_kelas (
    -> id_ruangan INTEGER PRIMARY KEY,
    -> nama_ruangan VARCHAR(25) NOT NULL
Query OK, 0 rows affected (0.027 sec)
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 (0.038 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)
```

```
Command Prompt - mysql -u root -p
                                                                                           \times
MariaDB [kuliah]> drop table mahasiswa has dosen;
Query OK, 0 rows affected (0.020 sec)
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,
    -> PRIMARY KEY(nim_mhsFK,nip_dosenFK)
Query OK, 0 rows affected (0.028 sec)
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 (0.028 sec)
```

c) Show semua table yang ada pada database kuliah



Command Prompt - mysql -u root -p	_	\times
3 rows in set (0.026 sec)		^
MariaDB [kuliah]> describe dosen;		
Field		
nip_dosen		
3 rows in set (0.018 sec)		
MariaDB [kuliah]> describe mata_kuliah;		
++		
++ id_mk		
2 rows in set (0.018 sec)		
		~
Command Prompt - mysql -u root -p	_	×
ERROR 1146 (42S02): Table 'kuliah.ruang_kuliah' doesn't exist MariaDB [kuliah]> describe ruang_kelas;		^
+		
 id_ruangan		
nama_ruangan		
2 rows in set (0.017 sec)		
MariaDB [kuliah]> describe dosen_has_mata_kuliah;		
Field Type Null Key Default Extra		
nip_dosenFK int(11) NO PRI NULL		
2 rows in set (0.015 sec)		
MariaDB [kuliah]> describe mahasiswa_has_dosen;		
***************************************		~
Command Prompt - mysql -u root -p	_	×
MariaDB [kuliah]> describe mahasiswa_has_dosen;		
Field Type Null Key Default Extra		104
nim_mhsFK int(11) NO PRI NULL		
2 rows in set (0.012 sec)		
MariaDB [kuliah]> describe mahasiswa_has_mata_kuliah;		
+		
nim_mhsFK int(11) NO		
++ 2 rows in set (0.016 sec)		
MariaDB [kuliah]> _		