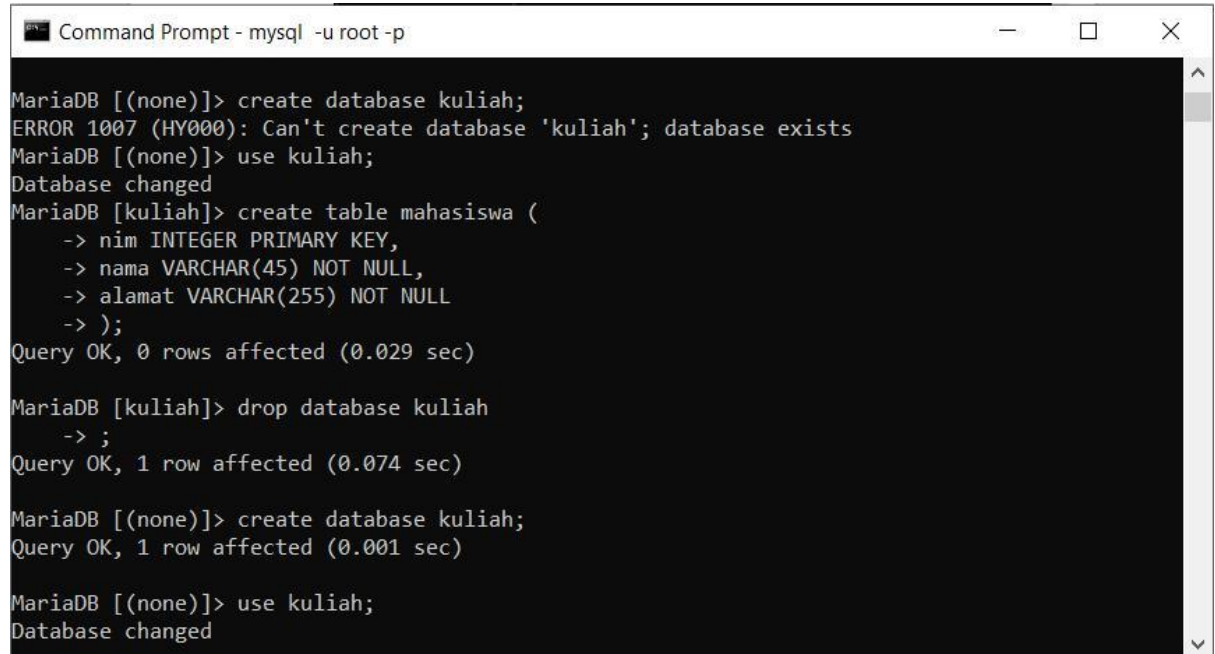Nama : Rahmat Beny Susanto
NIM : L200180079

PRAKTIKUM SISTEM BASIS DATA
MODUL 4
TUGAS

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

a) Membuat database kuliah

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                                    —    □    ×

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)
```

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

MariaDB [kuliah]> show tables;
+--------------------------+
| Tables_in_kuliah |
+--------------------------+
| dosen |
| dosen_has_mata_kuliah |
| mahasiswa |
| mahasiswa_has_dosen |
| mahasiswa_has_mata_kuliah |
| mata_kuliah |
| ruang_kelas |
+--------------------------+
7 rows in set (0.001 sec)

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

3 rows in set (0.026 sec)

MariaDB [kuliah]> describe dosen;

Field	Type	Null	Key	Default	Extra
nip_dosen	int(11)	NO	PRI	NULL	
nama_dosen	varchar(45)	NO		NULL	
alamat_dosen	varchar(255)	NO		NULL	

3 rows in set (0.018 sec)

MariaDB [kuliah]> describe mata_kuliah;

Field	Type	Null	Key	Default	Extra
id_mk	int(11)	NO	PRI	NULL	
nama_mk	varchar(25)	NO		NULL	

2 rows in set (0.018 sec)

ERROR 1146 (42S02): Table 'kuliah.ruang_kuliah' doesn't exist
MariaDB [kuliah]> describe ruang_kelas;

Field	Type	Null	Key	Default	Extra
id_ruangan	int(11)	NO	PRI	NULL	
nama_ruangan	varchar(25)	NO		NULL	

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	
id_mkFK	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 |
+-------------+---------+------+-----+---------+-------+
| nim_mhsFK   | int(11) | NO   | PRI | NULL    |       |
| nip_dosenFK | int(11) | NO   | PRI | NULL    |       |
+-------------+---------+------+-----+---------+-------+
2 rows in set (0.012 sec)

MariaDB [kuliah]> describe mahasiswa_has_mata_kuliah;
+-----------+---------+------+-----+---------+-------+
| Field     | Type    | Null | Key | Default | Extra |
+-----------+---------+------+-----+---------+-------+
| nim_mhsFK | int(11) | NO   | PRI | NULL    |       |
| id_mkFK   | int(11) | NO   | PRI | NULL    |       |
+-----------+---------+------+-----+---------+-------+
2 rows in set (0.016 sec)

MariaDB [kuliah]> _
```