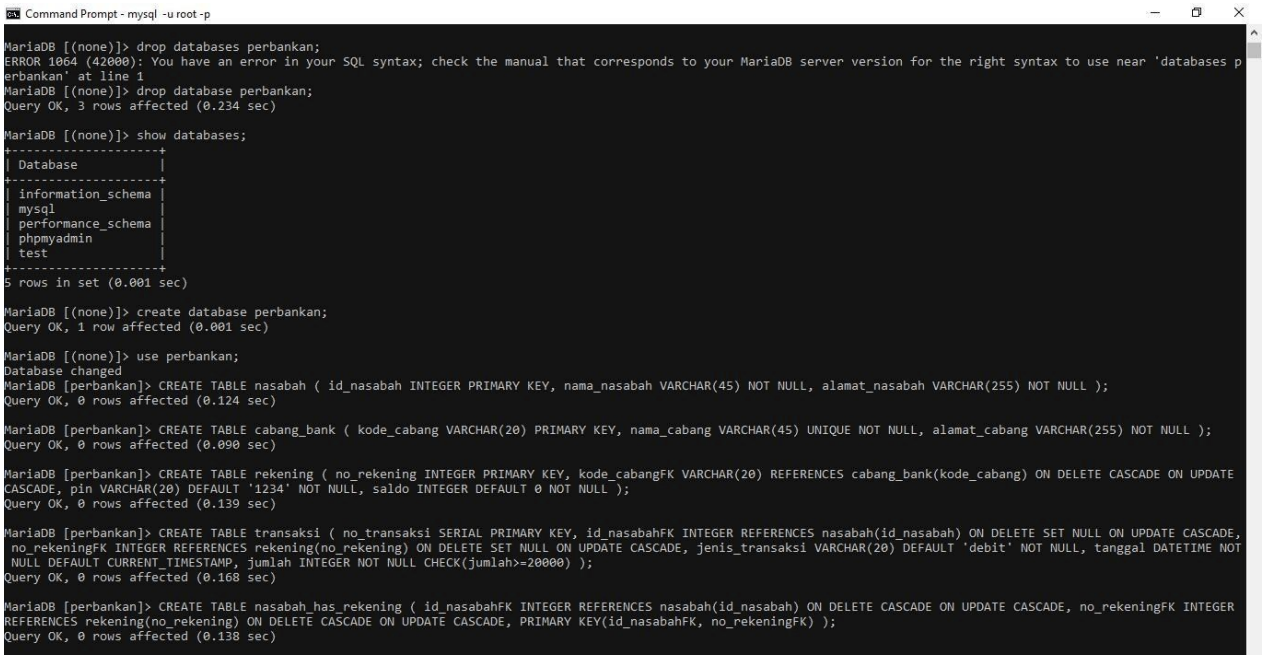
Nama : Muhammad Hilmy Raihan

NIM : L200180029

Modul 4

Latihan

```
C:\Users>cd..

C:\>cd..

C:\>E:\
'E:\' is not recognized as an internal or external command,
operable program or batch file.

C:\>E:

E:\>cd software free

E:\software free>cd xampp\mysql\bin

E:\software free\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 11
Server version: 10.4.11-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)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| perbankan          |
| performance_schema |
| phpmyadmin         |
| test               |
+--------------------+
6 rows in set (0.001 sec)
```



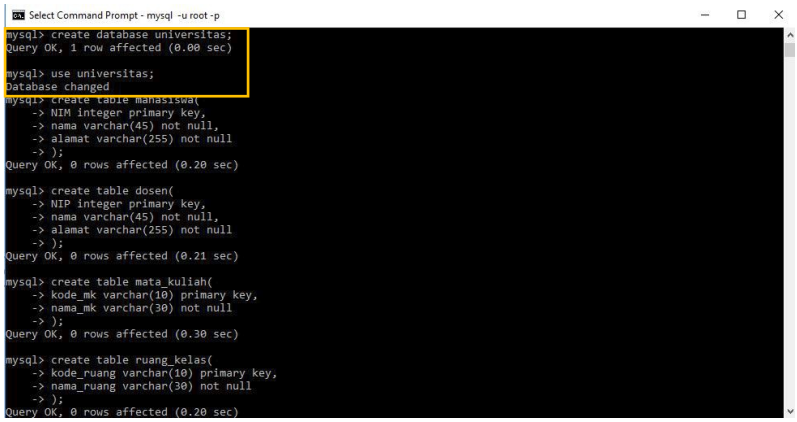
Command Prompt - mysql -u root -p

```
MariaDB [perbankan]> show tables;
+----------------------+
| Tables_in_perbankan  |
+----------------------+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+----------------------+
5 rows in set (0.001 sec)

MariaDB [perbankan]> describe nasabah;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| id_nasabah     | int(11)      | NO   | PRI | NULL    |       |
| nama_nasabah   | varchar(45)  | NO   |     | NULL    |       |
| alamat_nasabah | varchar(255) | NO   |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
3 rows in set (0.009 sec)

MariaDB [perbankan]> describe cabang_bank;
+---------------+--------------+------+-----+---------+-------+
| Field         | Type         | Null | Key | Default | Extra |
+---------------+--------------+------+-----+---------+-------+
| kode_cabang   | varchar(20)  | NO   | PRI | NULL    |       |
| nama_cabang   | varchar(45)  | NO   | UNI | NULL    |       |
| alamat_cabang | varchar(255) | NO   |     | NULL    |       |
+---------------+--------------+------+-----+---------+-------+
3 rows in set (0.008 sec)

MariaDB [perbankan]> describe rekening;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| no_rekening   | int(11)     | NO   | PRI | NULL    |       |
| kode_cabangFK | varchar(20) | YES  |     | NULL    |       |
| pin           | varchar(20) | NO   |     | 1234    |       |
| saldo         | int(11)     | NO   |     | 0       |       |
+---------------+-------------+------+-----+---------+-------+
4 rows in set (0.031 sec)
```

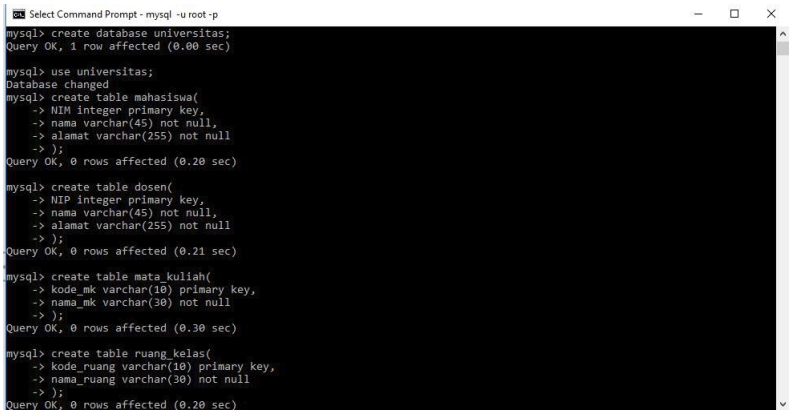
TUGAS

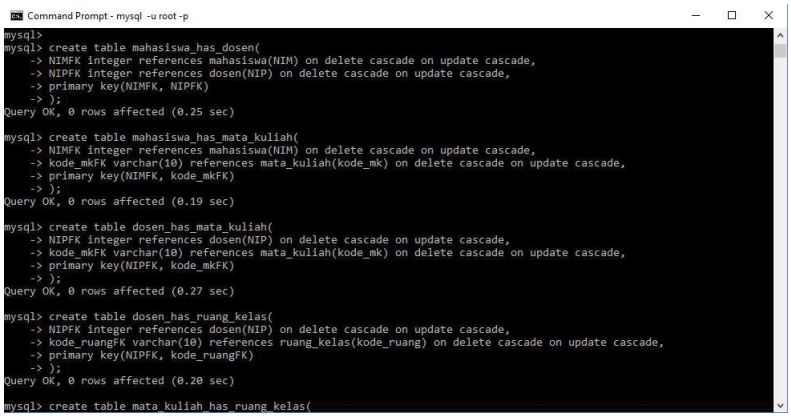
DATABASE UNIVERSITAS

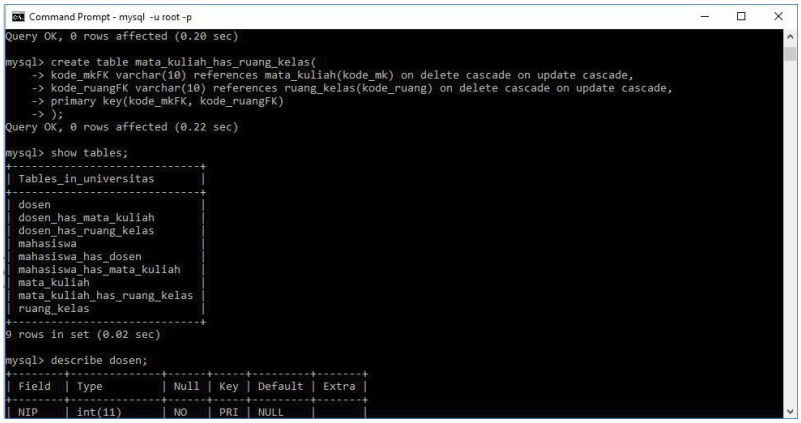
1. Membuat database universitas dan menghubungkannya



2. Membuat tabel

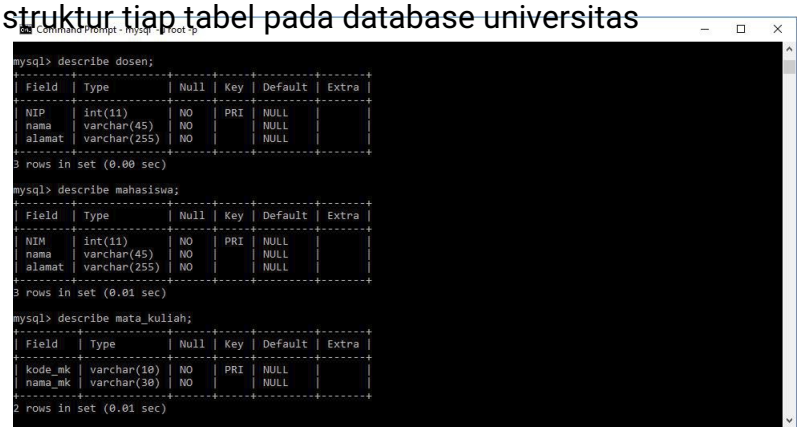


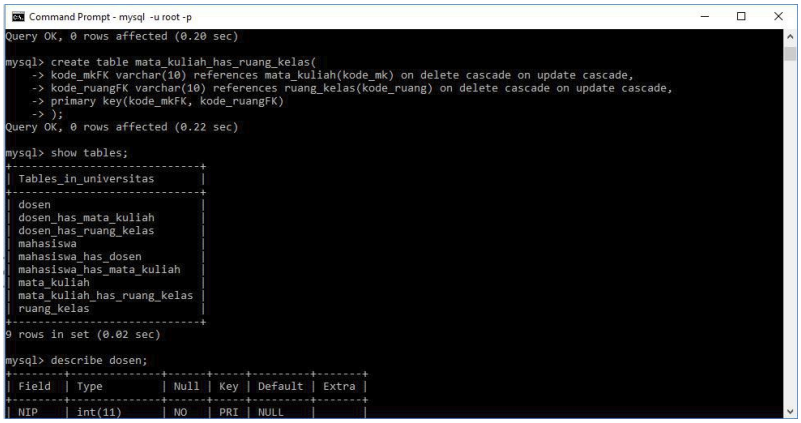


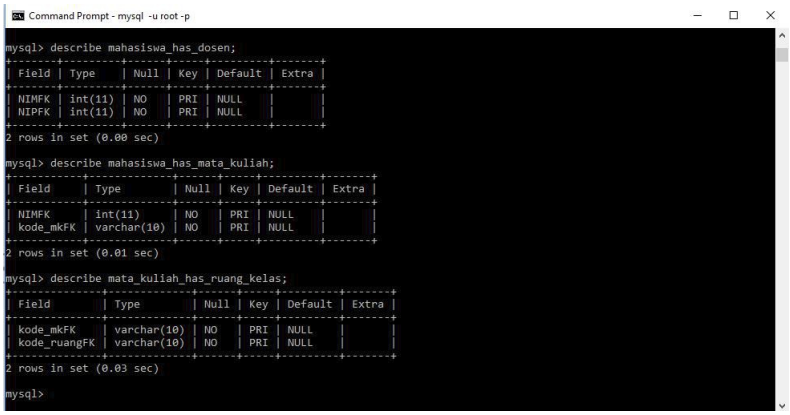


3. Menampilkan tabel pada database universitas

4. Melihat struktur tiap tabel pada database universitas

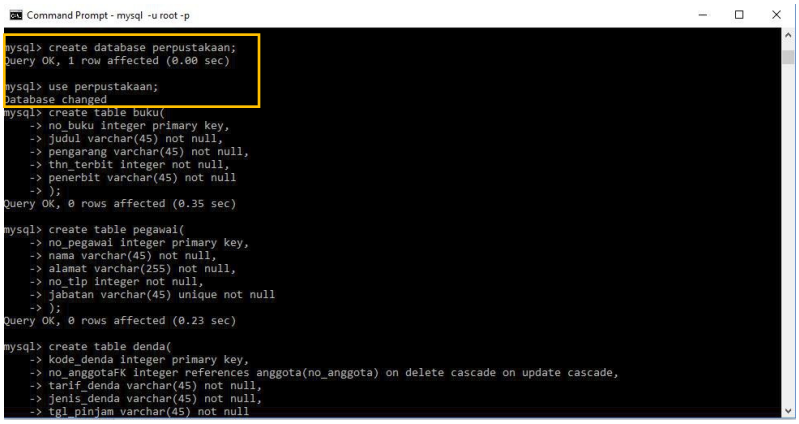



Command Prompt - mysql -u root -p
Query OK, 0 rows affected (0.20 sec)
mysql> create table mata_kuliah_has_ruang_kelas(
-> kode_mkFK varchar(10) references mata_kuliah(kode_mk) on delete cascade on update cascade,
-> kode_ruangFK varchar(10) references ruang_kelas(kode_ruang) on delete cascade on update cascade,
-> primary key(kode_mkFK, kode_ruangFK)
->);
Query OK, 0 rows affected (0.22 sec)
mysql> show tables;
| Tables_in_universitas |
| dosen |
| dosen_has_mata_kuliah |
| dosen_has_ruang_kelas |
| mahasiswa |
| mahasiswa_has_dosen |
| mahasiswa_has_mata_kuliah |
| mata_kuliah |
| mata_kuliah_has_ruang_kelas |
| ruang_kelas |
9 rows in set (0.02 sec)
mysql> describe dosen;
| Field | Type | Null | Key | Default | Extra |
| NIP | int(11) | NO | PRI | NULL | |

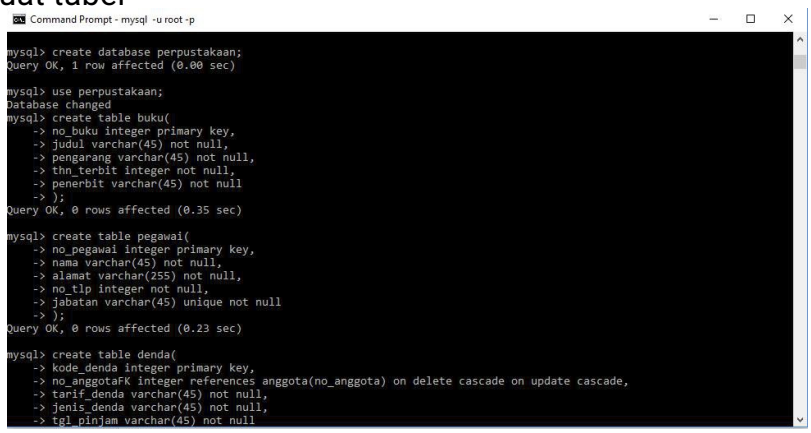

Command Prompt - mysql -u root -p
mysql> describe mahasiswa_has_dosen;
Field	Type	Null	Key	Default	Extra
NIMFK	int(11)	NO	PRI	NULL	
NIPFK	int(11)	NO	PRI	NULL	
2 rows in set (0.00 sec)
mysql> describe mahasiswa_has_mata_kuliah;
Field	Type	Null	Key	Default	Extra
NIMFK	int(11)	NO	PRI	NULL	
kode_mkFK	varchar(10)	NO	PRI	NULL	
2 rows in set (0.01 sec)
mysql> describe mata_kuliah_has_ruang_kelas;
Field	Type	Null	Key	Default	Extra
kode_mkFK	varchar(10)	NO	PRI	NULL	
kode_ruangFK	varchar(10)	NO	PRI	NULL	
2 rows in set (0.03 sec)
mysql>

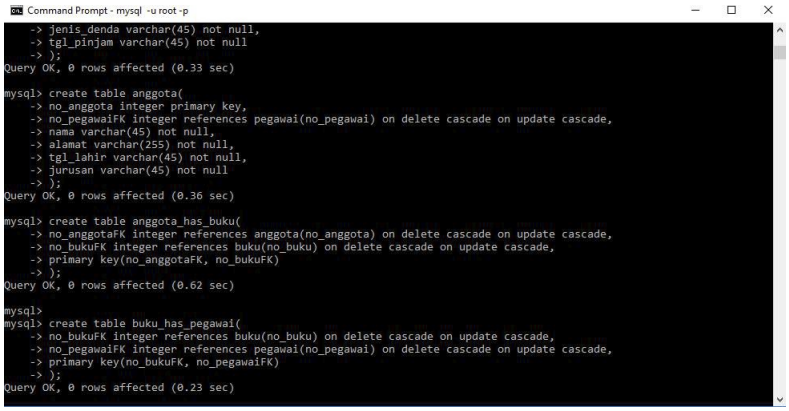
DATABASE PERPUSTAKAAN

1. Membuat database perpustakaan dan menghubungkannya

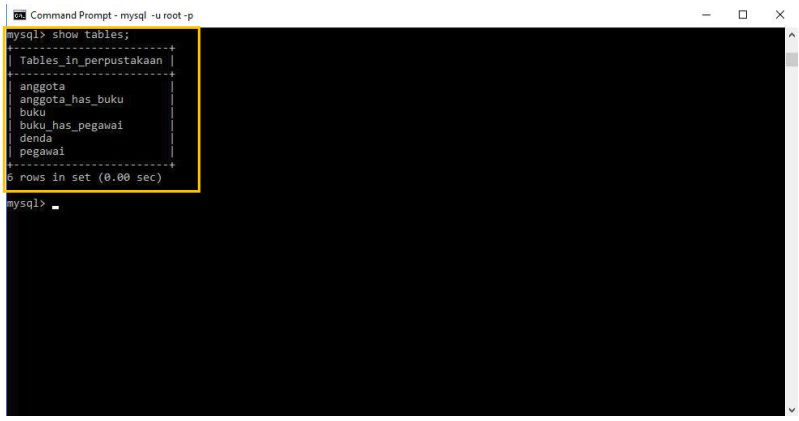


2. Membuat tabel

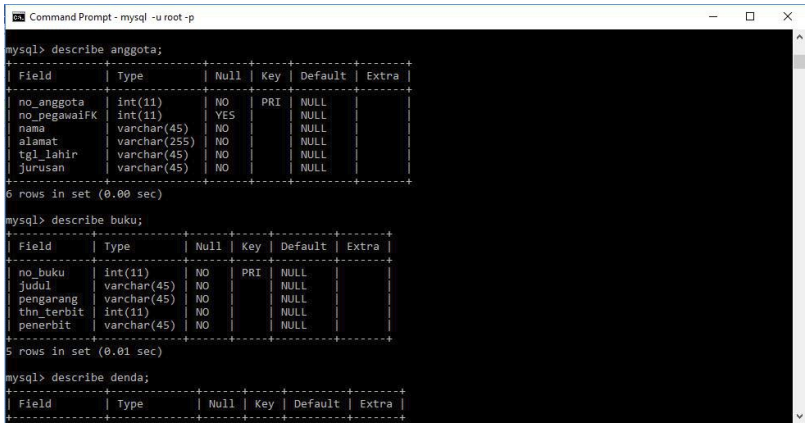


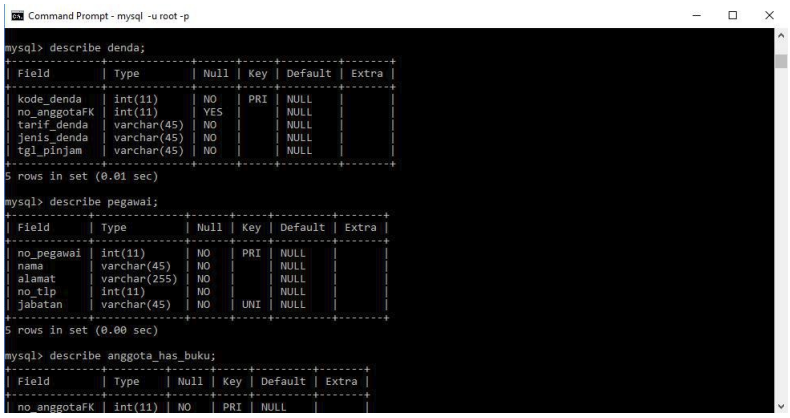


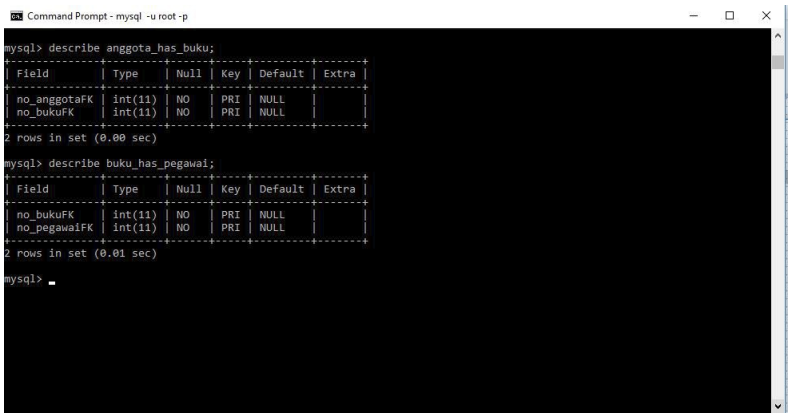
3. Menampilkan tabel pada database perpustakaan



4. Melihat struktur tiap tabel pada database perpustakaan






Command Prompt - mysql -u root -p
mysql> describe anggota_has_buku;
+--------------+---------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+--------------+---------+------+-----+---------+-------+
| no_anggotaFK | int(11) | NO | PRI | NULL | |
| no_bukuFK | int(11) | NO | PRI | NULL | |
+--------------+---------+------+-----+---------+-------+
2 rows in set (0.00 sec)
mysql> describe buku_has_pegawai;
+--------------+---------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+--------------+---------+------+-----+---------+-------+
| no_bukuFK | int(11) | NO | PRI | NULL | |
| no_pegawaiFK | int(11) | NO | PRI | NULL | |
+--------------+---------+------+-----+---------+-------+
2 rows in set (0.01 sec)
mysql>