Nama : Amron Akhsanul ‘Arif

NIM : L200180105

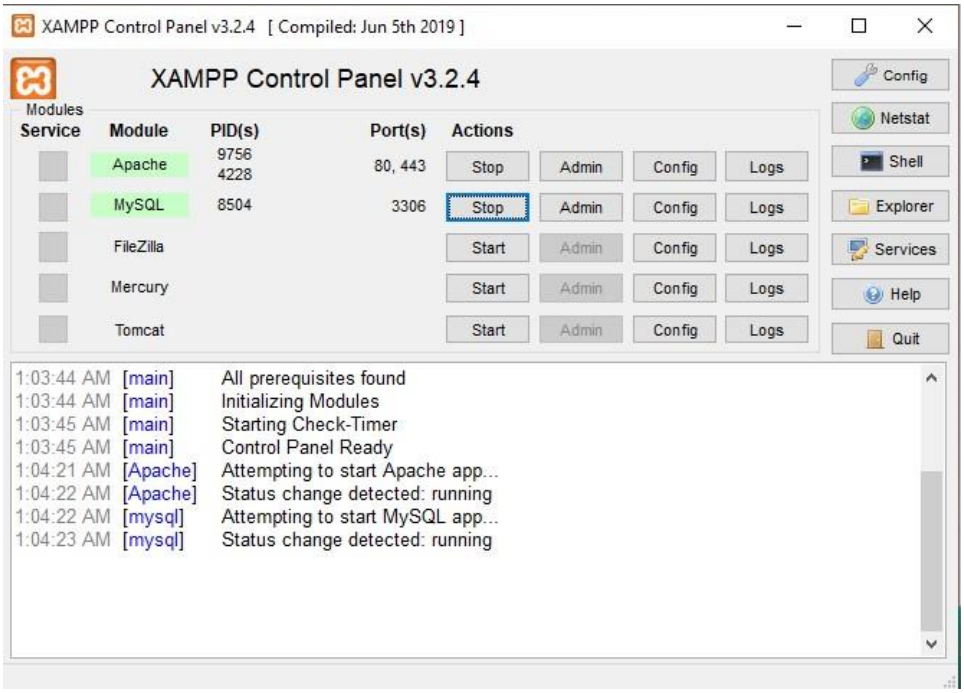
Kelas : D

PRAKTIKUM BASIS DATA

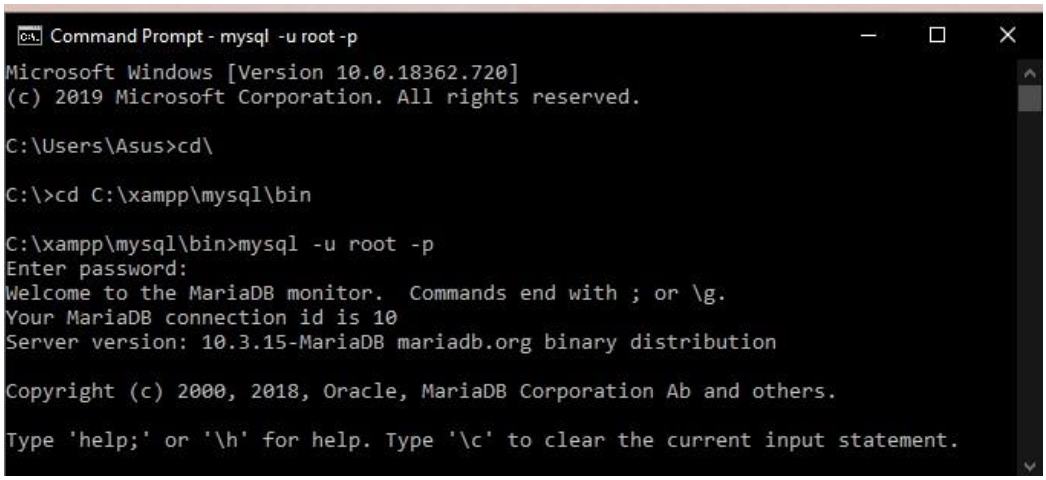
MODUL 4

1) PRAKTIKUM

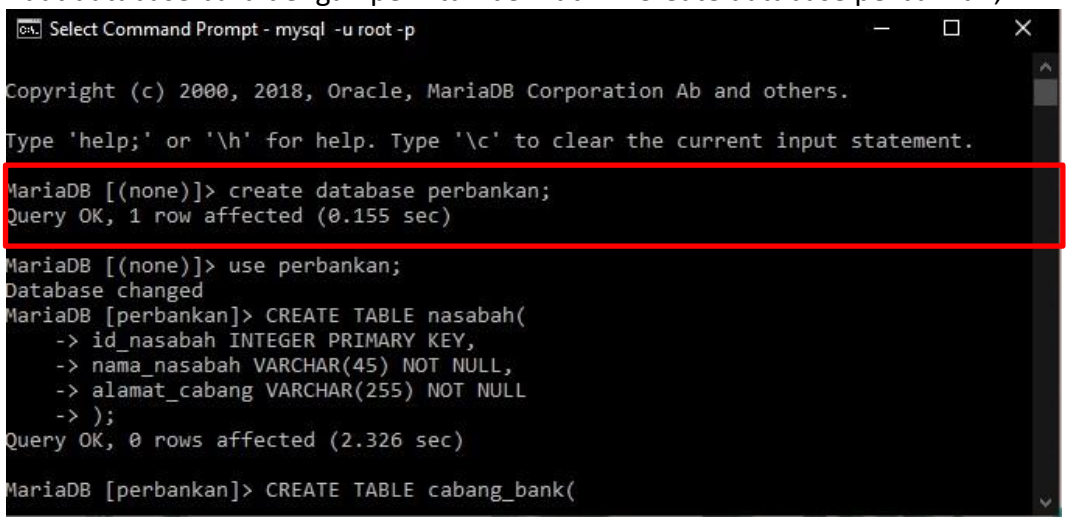
1. Jalankan XAMPP control panel.
2. Jalankan server Apache dan Mysql



3. Buka command promp dan login sebagai root ke MySQL seperti di langkah pada modul 1

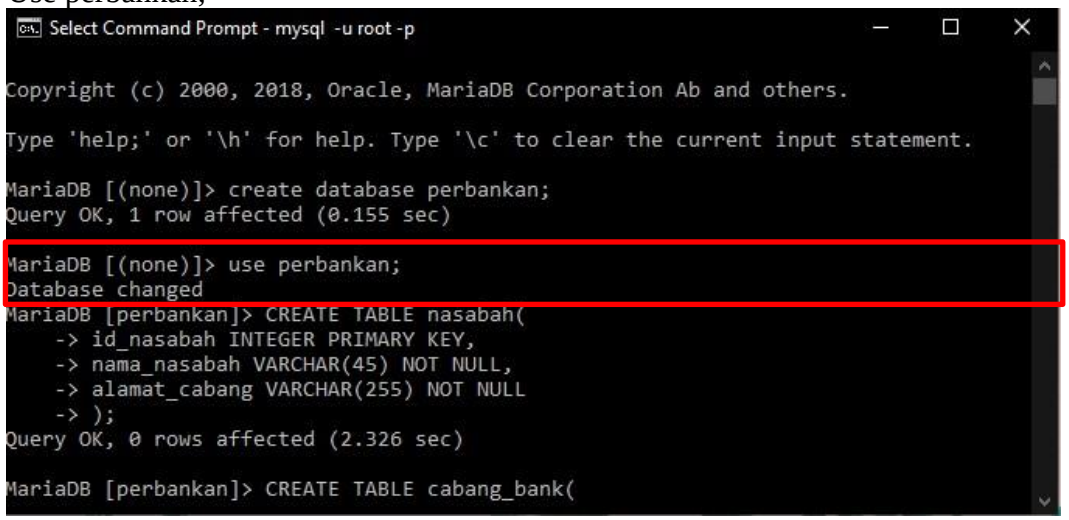


4. Buat database baru dengan perintah berikut ini. Create database perbankan;

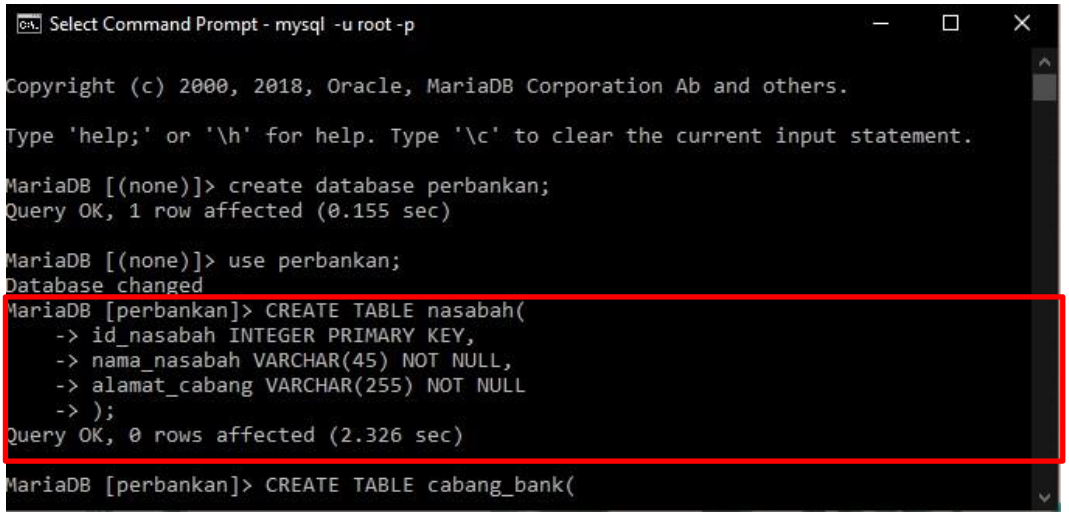


5. Hubungkan ke dalam database yang telah dibuat dengan perintah berikut. Sehingga akan muncul pemberitahuan “database changed”

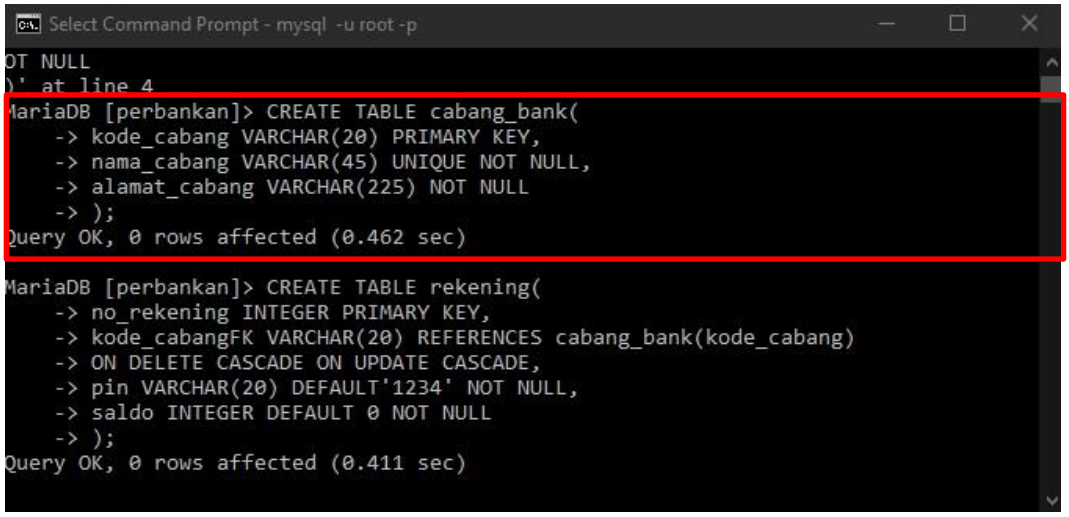
   Use perbankan;



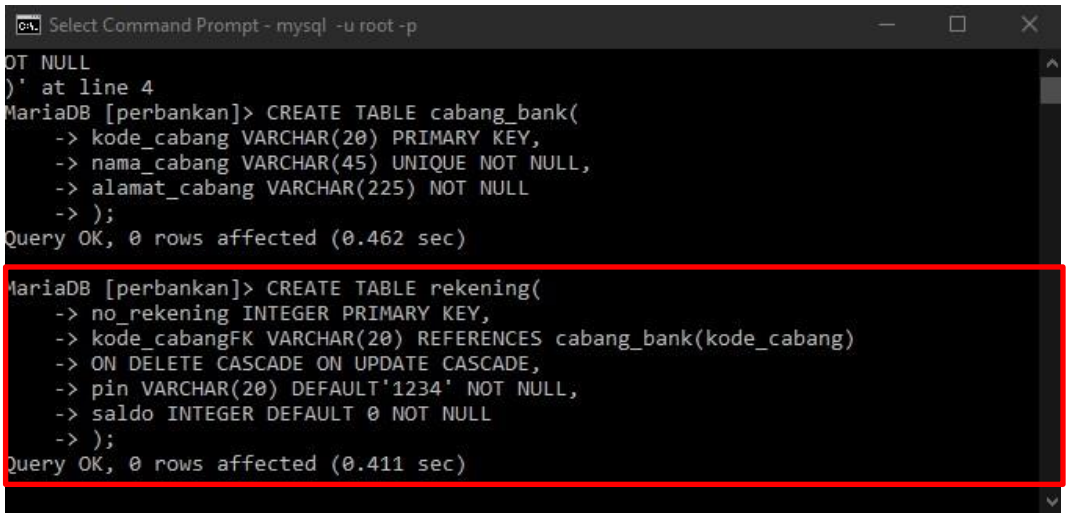
6. Membuat table nasabah.



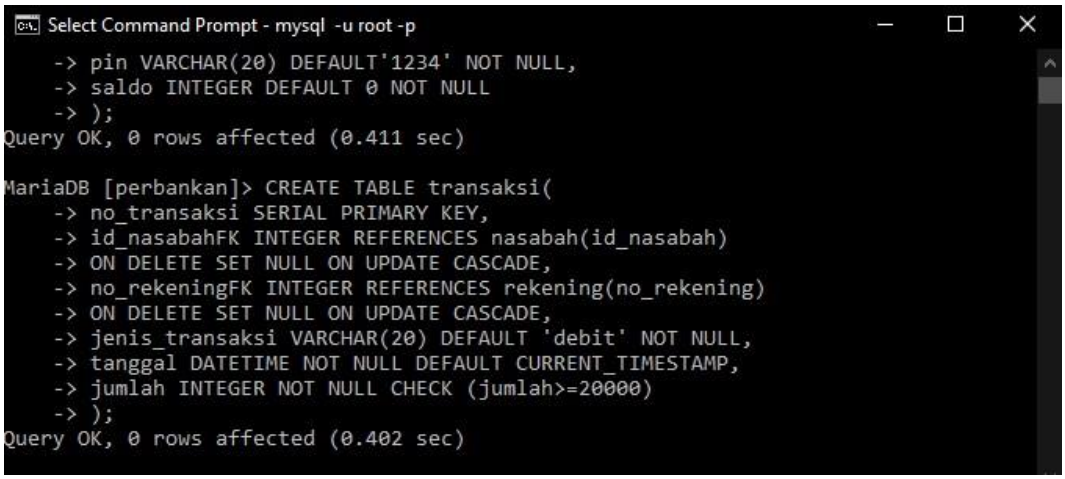
7. Membuat tabel cabang_bank



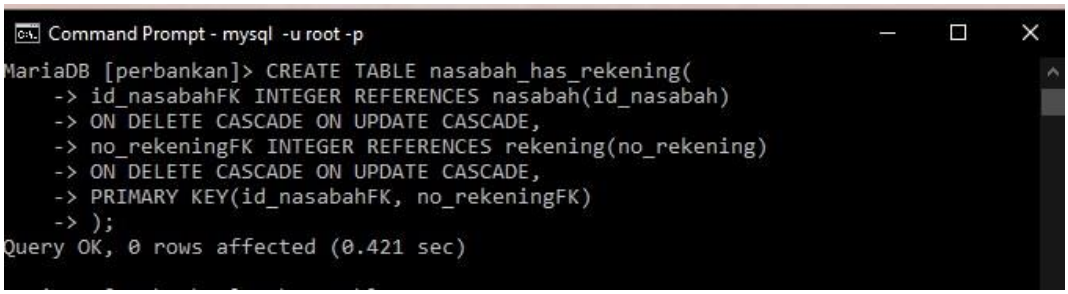
8. Membuat table rekening



9. Membuat table transaksi

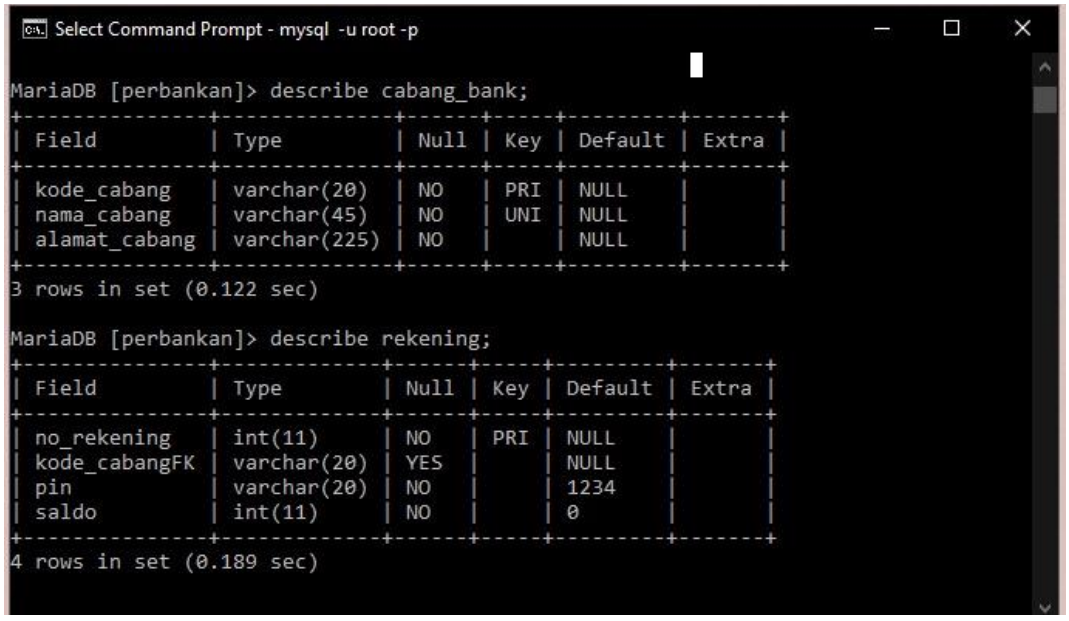


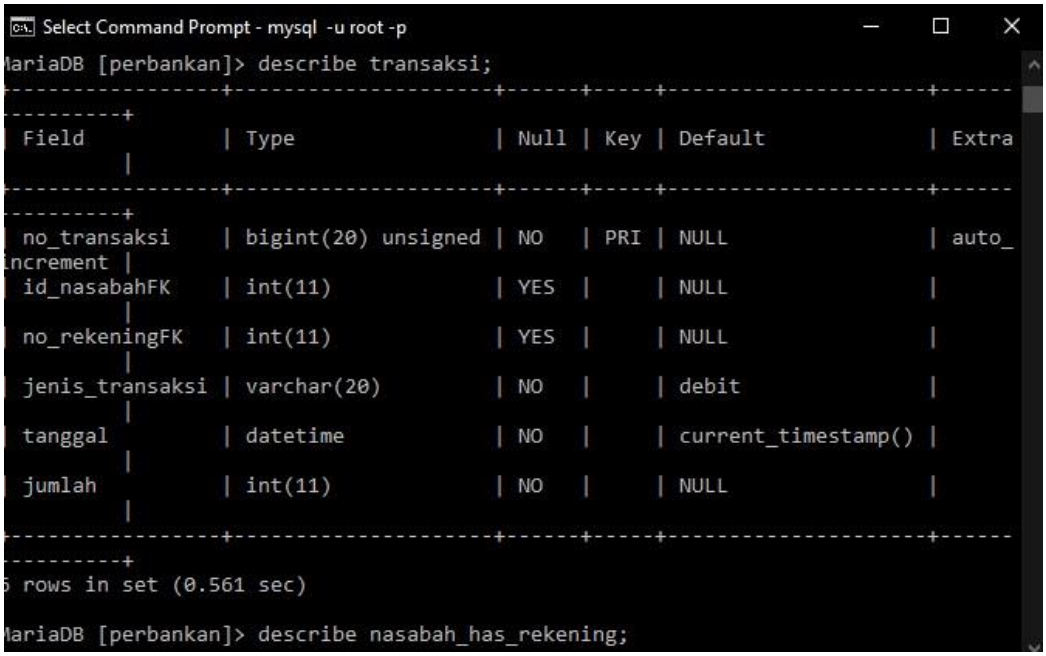
10. Membuat table nasabah_has_rekening karena (m:n)

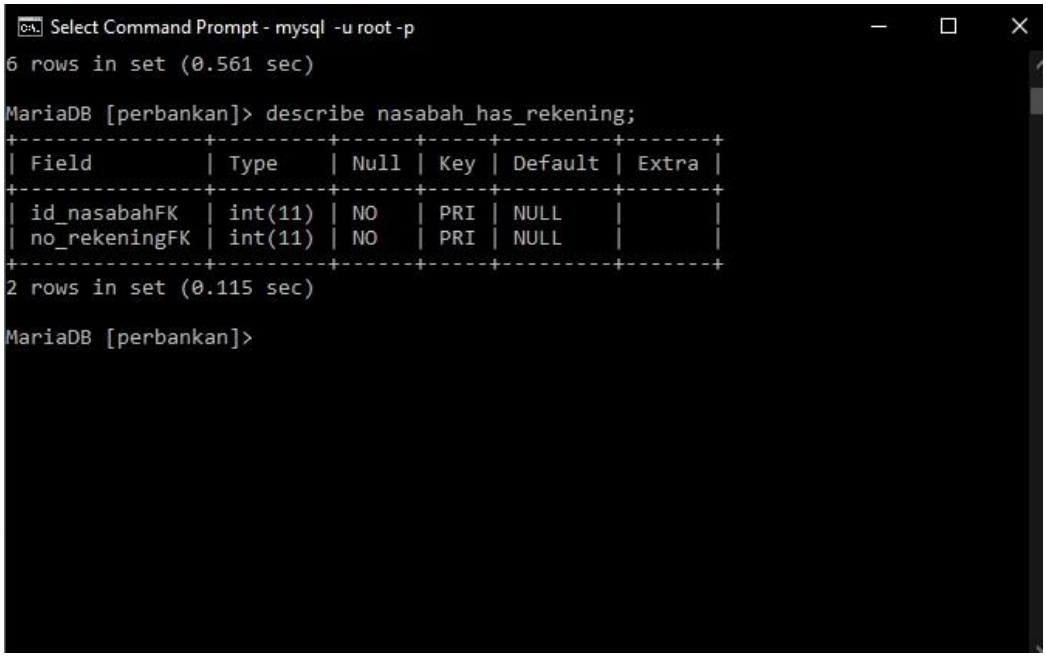


11. Untuk mengecek hasil pembuatan database gunakan perintah show tables;

12. Untuk meliah setiap struktur tiap-tiap table dilakukan dengan perintah describe



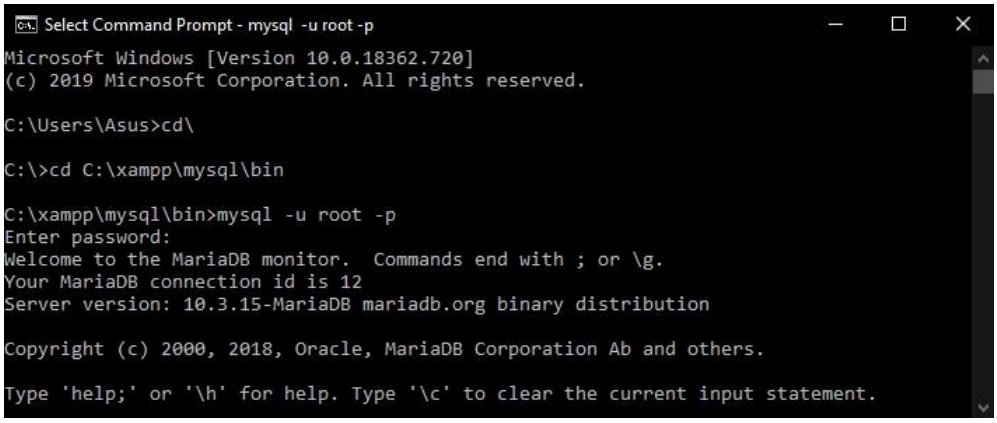

Select Command Prompt - mysql -u root -p
MariaDB [perbankan]> describe transaksi;
+-----------------+---------------------+------+-----+---------------------+-------+
| Field | Type | Null | Key | Default | Extra |
+-----------------+---------------------+------+-----+---------------------+-------+
no_transaksi	bigint(20) unsigned	NO	PRI	NULL	auto_increment
id_nasabahFK	int(11)	YES		NULL	
no_rekeningFK	int(11)	YES		NULL	
jenis_transaksi	varchar(20)	NO		debit	
tanggal	datetime	NO		current_timestamp()	
jumlah	int(11)	NO		NULL	
+-----------------+---------------------+------+-----+---------------------+-------+
5 rows in set (0.561 sec)
MariaDB [perbankan]> describe nasabah_has_rekening;


Select Command Prompt - mysql -u root -p
6 rows in set (0.561 sec)
MariaDB [perbankan]> describe nasabah_has_rekening;
+---------------+---------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+---------------+---------+------+-----+---------+-------+
| id_nasabahFK | int(11) | NO | PRI | NULL | |
| no_rekeningFK | int(11) | NO | PRI | NULL | |
+---------------+---------+------+-----+---------+-------+
2 rows in set (0.115 sec)
MariaDB [perbankan]>

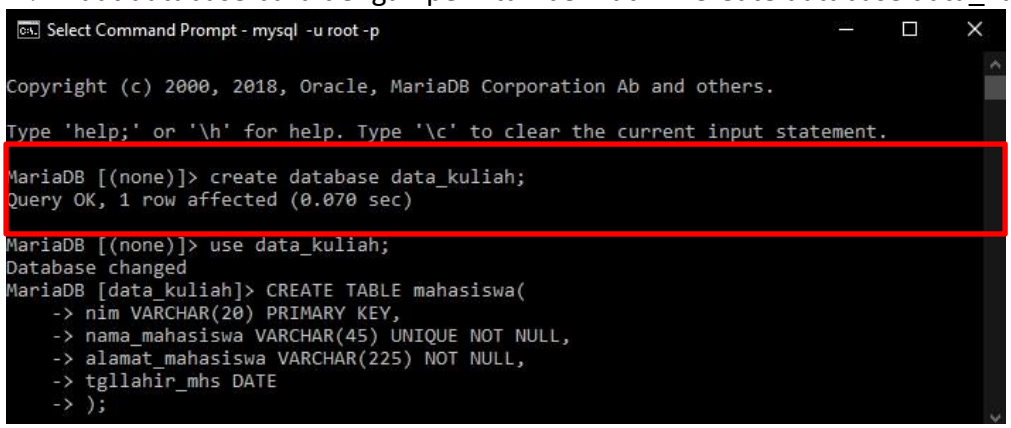
2) TUGAS PRAKTIKUM

Implementasikan hasil rancangan database yang mengenai data kuliah pada tugas modul 2!

1. Buka command promp dan login sebagai root ke MySQL

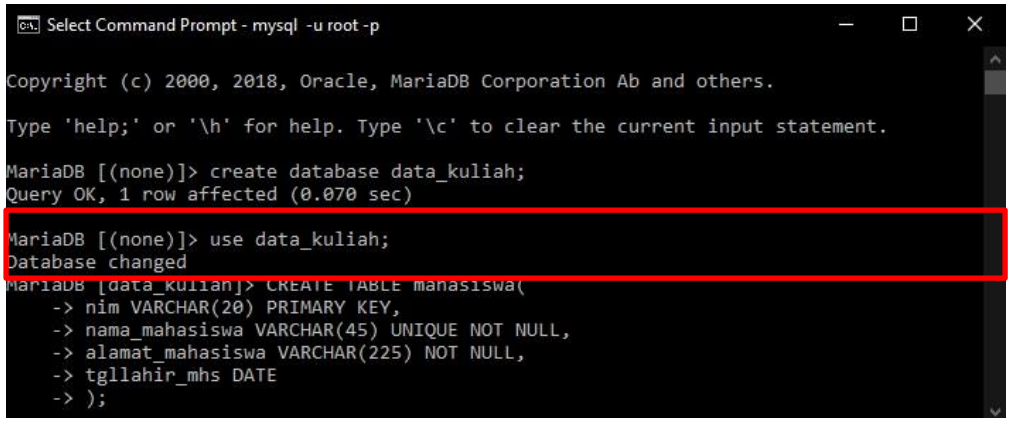


2. Buat database baru dengan perintah berikut ini. Create database data_kuliah;

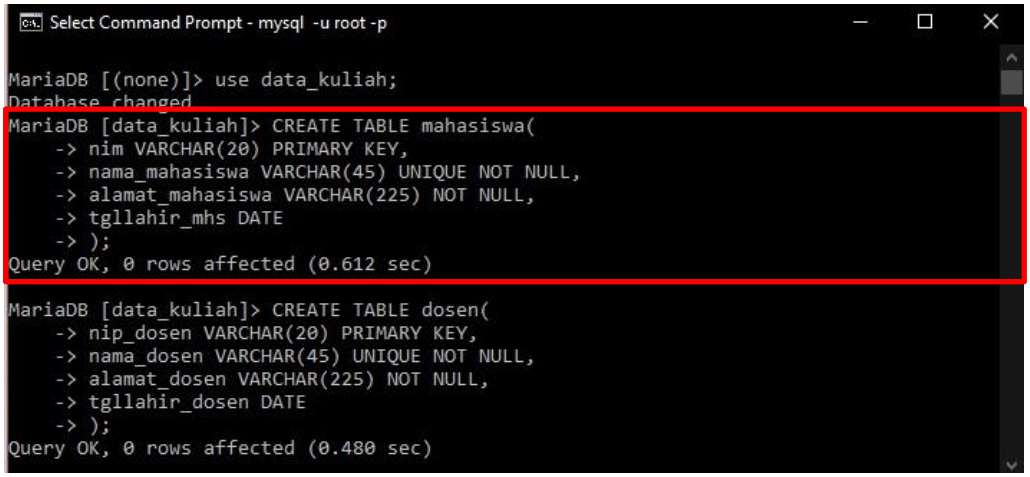


3. Hubungkan ke dalam database yang telah dibuat dengan perintah berikut. Sehingga akan muncul pemberitahuan “database changed”

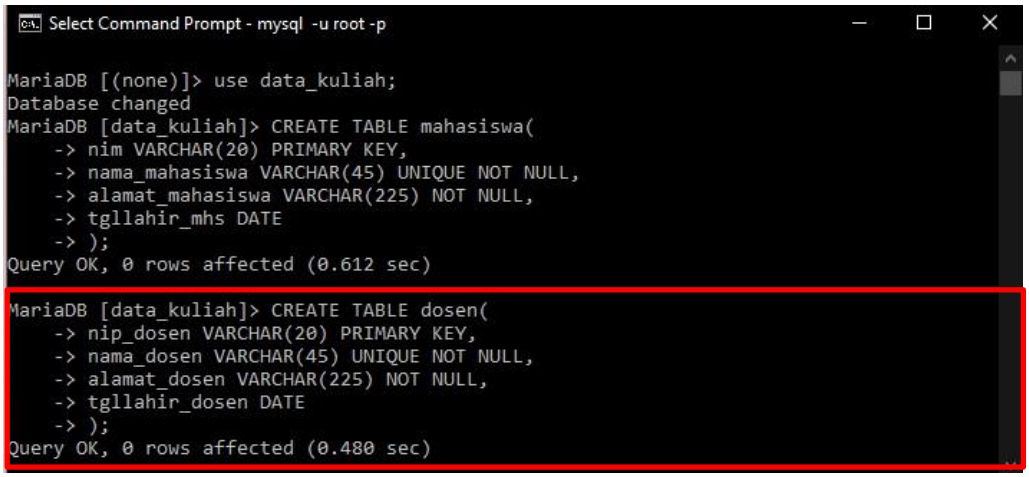
   Use data_kuliah



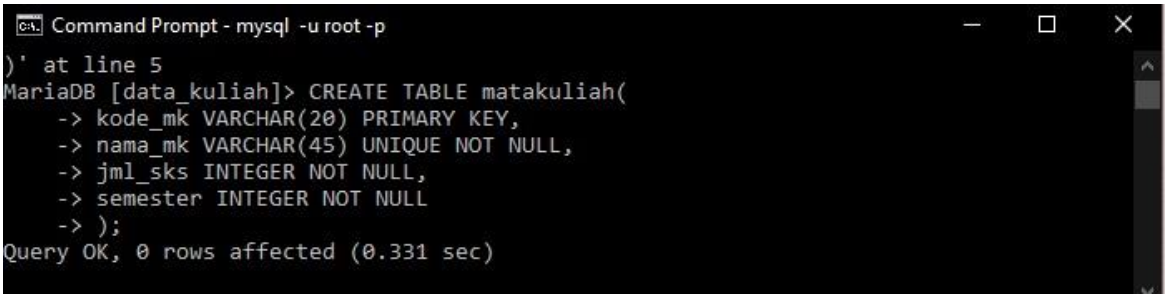
4. Membuat tabel mahasiswa



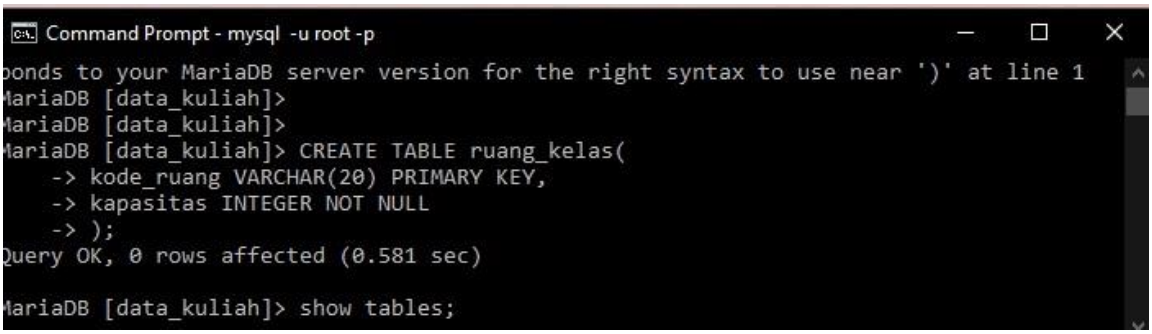
5. Membuat tabel dosen



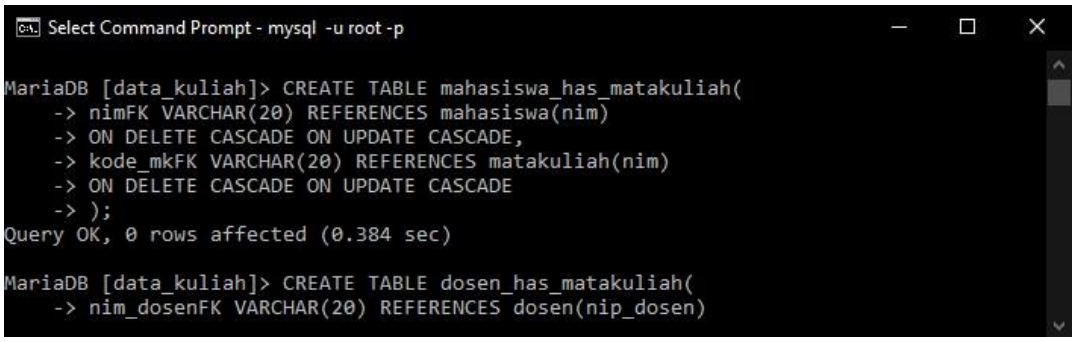
6. Membuat tabel matakuliah



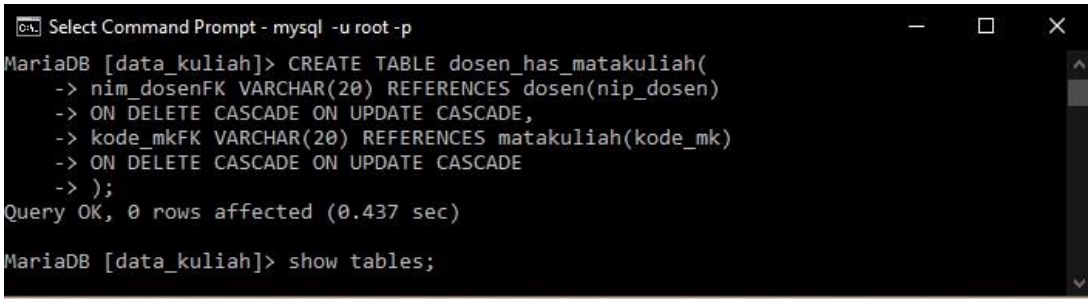
7. Membuat tabel ruang_kelas



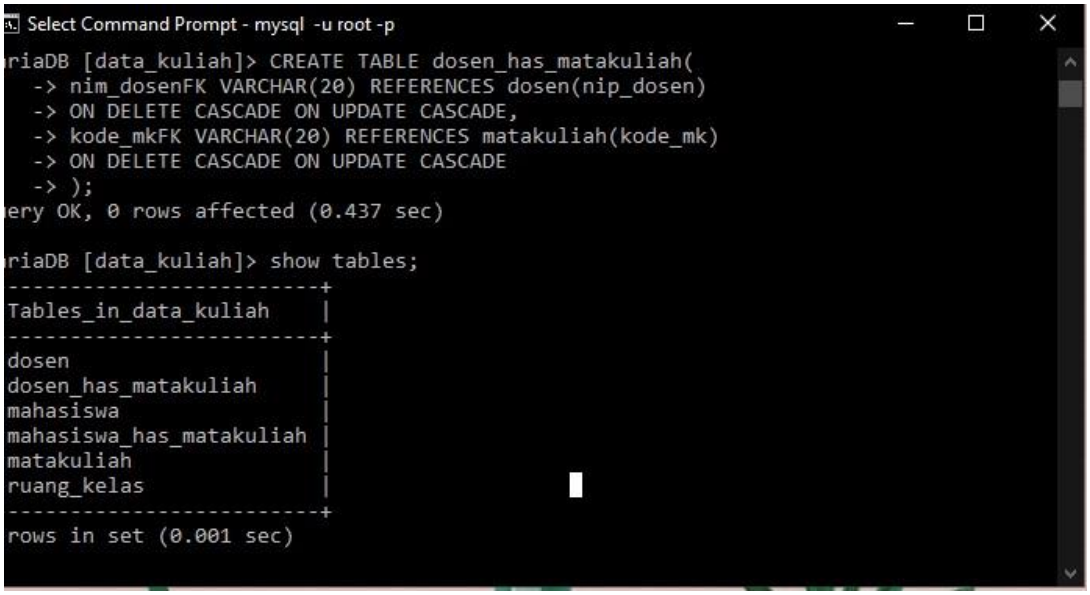
8. Membuat tabel mahasiswa_has_matakuliah



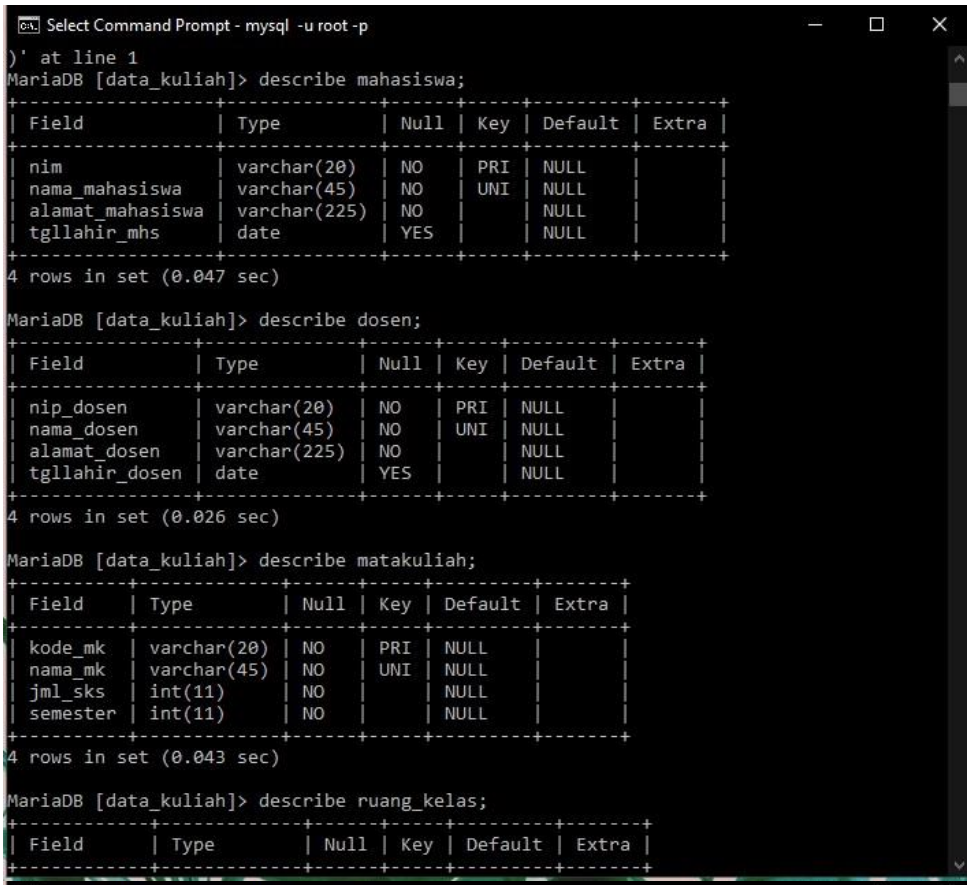
9. Membuat tabel mahasiswa_has_matakuliah



10. Untuk mengecek hasil pembuatan database gunakan perintah show tables;



11. Untuk meliah setiap struktur tiap-tiap table dilakukan dengan perintah describe



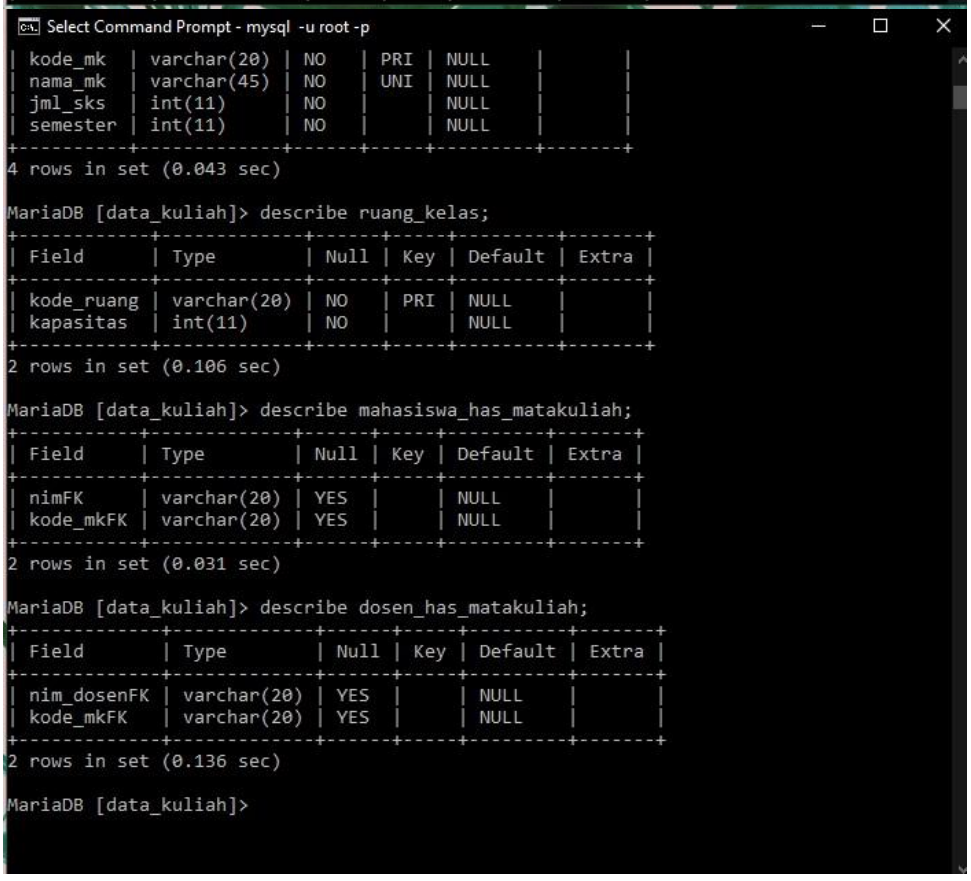
Select Command Prompt - mysql -u root -p

```
)' at line 1
MariaDB [data_kuliah]> describe mahasiswa;
+------------------+--------------+------+-----+---------+-------+
| Field            | Type         | Null | Key | Default | Extra |
+------------------+--------------+------+-----+---------+-------+
| nim              | varchar(20)  | NO   | PRI | NULL    |       |
| nama_mahasiswa   | varchar(45)  | NO   | UNI | NULL    |       |
| alamat_mahasiswa | varchar(225) | NO   |     | NULL    |       |
| tgllahir_mhs     | date         | YES  |     | NULL    |       |
+------------------+--------------+------+-----+---------+-------+
4 rows in set (0.047 sec)

MariaDB [data_kuliah]> describe dosen;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| nip_dosen      | varchar(20)  | NO   | PRI | NULL    |       |
| nama_dosen     | varchar(45)  | NO   | UNI | NULL    |       |
| alamat_dosen   | varchar(225) | NO   |     | NULL    |       |
| tgllahir_dosen | date         | YES  |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
4 rows in set (0.026 sec)

MariaDB [data_kuliah]> describe matakuliah;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| kode_mk  | varchar(20) | NO   | PRI | NULL    |       |
| nama_mk  | varchar(45) | NO   | UNI | NULL    |       |
| jml_sks  | int(11)     | NO   |     | NULL    |       |
| semester | int(11)     | NO   |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
4 rows in set (0.043 sec)

MariaDB [data_kuliah]> describe ruang_kelas;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
```



Select Command Prompt - mysql -u root -p

```
| kode_mk  | varchar(20) | NO   | PRI | NULL    |       |
| nama_mk  | varchar(45) | NO   | UNI | NULL    |       |
| jml_sks  | int(11)     | NO   |     | NULL    |       |
| semester | int(11)     | NO   |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
4 rows in set (0.043 sec)

MariaDB [data_kuliah]> describe ruang_kelas;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| kode_ruang | varchar(20) | NO   | PRI | NULL    |       |
| kapasitas  | int(11)     | NO   |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
2 rows in set (0.106 sec)

MariaDB [data_kuliah]> describe mahasiswa_has_matakuliah;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| nimFK     | varchar(20) | YES  |     | NULL    |       |
| kode_mkFK | varchar(20) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
2 rows in set (0.031 sec)

MariaDB [data_kuliah]> describe dosen_has_matakuliah;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| nim_dosenFK | varchar(20) | YES  |     | NULL    |       |
| kode_mkFK   | varchar(20) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
2 rows in set (0.136 sec)

MariaDB [data_kuliah]>
```