

Nama : Alif Al Amin

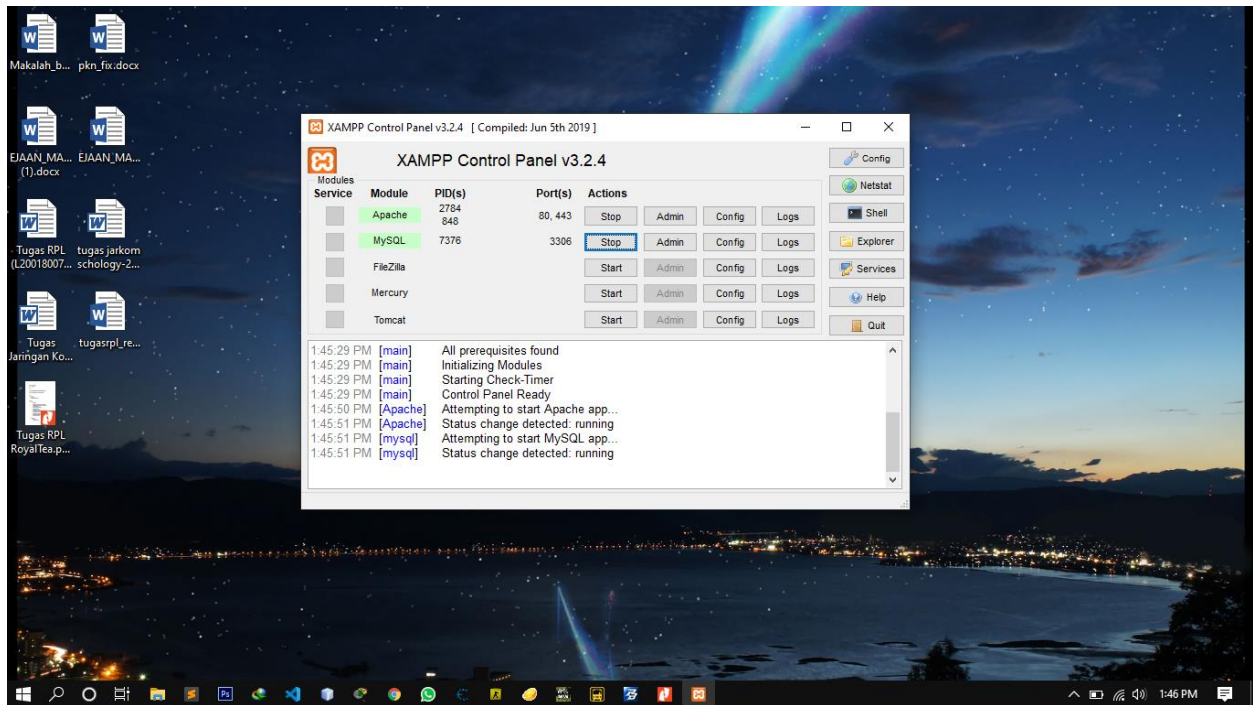
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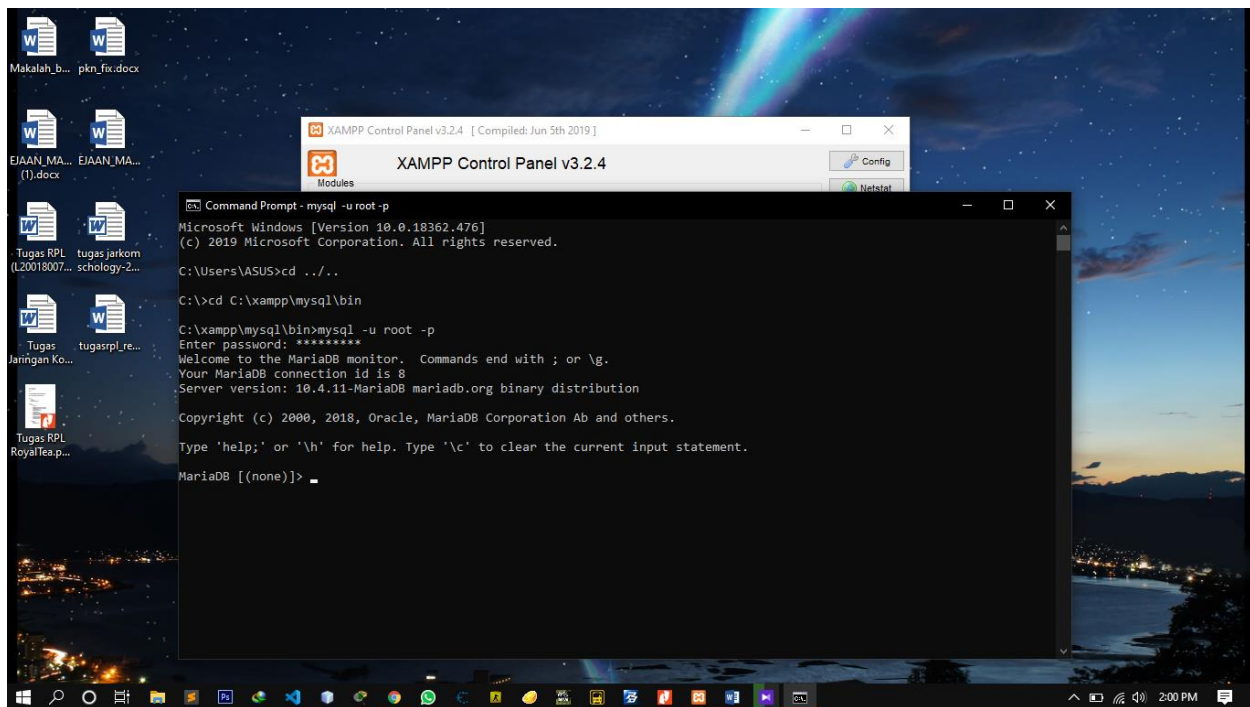
Laporan Praktikum Modul 4

A. Kegiatan Praktikum

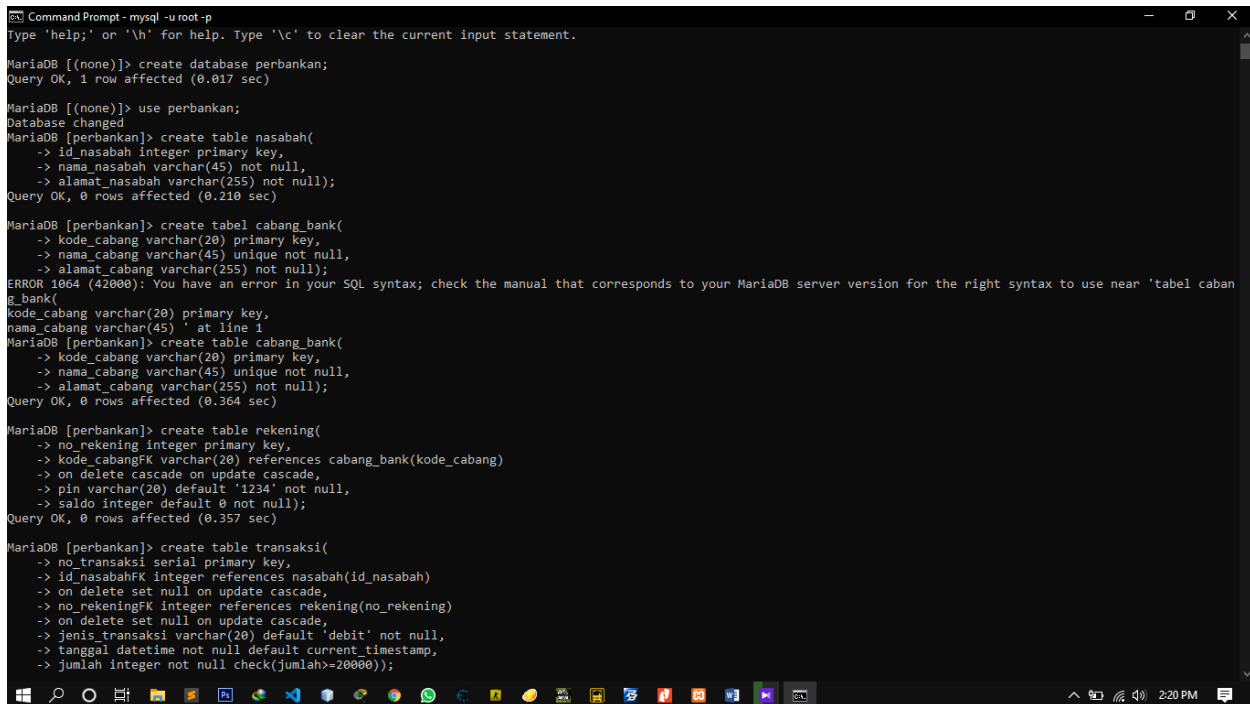
1. Jalankan XAMPP Control Panel dan server Apache serta MySQL



2. Buka command prompt dan login sebagai root di MySQL



4. Buat database baru dan table



```
Command Prompt - mysql -u root -p
-> tanggal datetime not null default current_timestamp,
-> jumlah integer not null check(jumlah>=20000));
Query OK, 0 rows affected (0.400 sec)

MariaDB [perbankan]> create table nasabah_has_rekening(
-> id_nasabahFK integer references nasabah(id_nasabah)
-> on delete cascade on update cascade,
-> no_rekeningFK integer references rekening(no_rekening)
-> on delete cascade on update cascade,
-> primary key(id_nasabahFK,no_rekeningFK));
Query OK, 0 rows affected (0.308 sec)

MariaDB [perbankan]> _
```

5. Cek hasil pembuatan database

```
Command Prompt - mysql -u root -p
-> primary key(id_nasabahFK,no_rekeningFK));
Query OK, 0 rows affected (0.308 sec)

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+-----+
5 rows in set (0.002 sec)

MariaDB [perbankan]>
```

6. Melihat struktur table nasabah

```
Command Prompt - mysql -u root -p
+-----+
5 rows in set (0.002 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 (0.010 sec)

MariaDB [perbankan]>
```

B. TUGAS

Implementasi hasil rancangan database yang menangani data kuliah di modul 2 ke dalam program mysql!

```
Command Prompt - mysql -u root -p
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 9
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)]> create database kuliah;
ERROR 1007 (HY000): Can't create database 'kuliah'; database exists
MariaDB [(none)]> drop database kuliah;
Query OK, 1 row affected (0.410 sec)

MariaDB [(none)]> create database kuliah;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> create table mahasiswa(
  -> nama_mahasiswa varchar(45) not null,
  -> nim_mahasiswa varchar(45) primary key,
  -> alamat_mahasiswa varchar(255) not null);
Query OK, 0 rows affected (0.310 sec)

MariaDB [kuliah]> create table dosen(
  -> nama_dosen varchar(45) not null,
  -> nip_dosen varchar(45) primary key,
  -> alamat_dosen varchar(255) not null);
Query OK, 0 rows affected (0.338 sec)

MariaDB [kuliah]> create table mata_kuliah(
  -> nama_matkul varchar(45) not null,
  -> kode_matkul varchar(45) primary key,
  -> dosen_pengampu varchar(255) not null);
Query OK, 0 rows affected (0.301 sec)

MariaDB [kuliah]> create table ruang_kelas(
  -> nama_ruang varchar(45) not null,
  -> kode_ruang varchar(45) primary key,
  -> daya_tampung varchar(45) not null);
Query OK, 0 rows affected (0.569 sec)
```

```
Command Prompt - mysql -u root -p
MariaDB [kuliah]> create table mahasiswa_has_matakuliah(
  -> nim_mahasiswaFK varchar(45) references mahasiswa(nim_mahasiswa)
  -> on delete cascade on update cascade,
  -> kode_matkulFK varchar(45) references mata_kuliah(kode_matkul)
  -> on delete cascade on update cascade,
  -> primary key(nim_mahasiswaFK, kode_matkulFK));
Query OK, 0 rows affected (0.222 sec)

MariaDB [kuliah]> show tables;
+-----+
| Tables_in_kuliah |
+-----+
| dosen             |
| mahasiswa         |
| mahasiswa_has_matakuliah |
| mata_kuliah       |
| ruang_kelas       |
+-----+
5 rows in set (0.001 sec)

MariaDB [kuliah]> describe mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nama_mahasiswa | varchar(45) | NO | | NULL | |
| nim_mahasiswa | varchar(45) | NO | PRI | NULL | |
| alamat_mahasiswa | varchar(255) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.010 sec)

MariaDB [kuliah]> describe dosen;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nama_dosen | varchar(45) | NO | PRI | NULL | |
| nip_dosen | varchar(45) | NO | | NULL | |
| alamat_dosen | varchar(255) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.036 sec)

MariaDB [kuliah]> describe mata_kuliah
-> ;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nama_matkul | varchar(45) | NO | | NULL | |
| kode_matkul | varchar(45) | NO | PRI | NULL | |
| dosen_pengampu | varchar(255) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.010 sec)
```

Command Prompt - mysql -u root -p

MariaDB [kuliah]> describe mata_kuliah
-> ;

Field	Type	Null	Key	Default	Extra
nama_matkul	varchar(45)	NO		NULL	
kode_matkul	varchar(45)	NO	PRI	NULL	
dosen_pengampu	varchar(255)	NO		NULL	

3 rows in set (0.011 sec)

MariaDB [kuliah]> describe ruang_kelas;

Field	Type	Null	Key	Default	Extra
nama_ruang	varchar(45)	NO		NULL	
kode_ruang	varchar(45)	NO	PRI	NULL	
daya_tampung	varchar(45)	NO		NULL	

3 rows in set (0.010 sec)

MariaDB [kuliah]> describe mahasiswa_has_matakuliah;

Field	Type	Null	Key	Default	Extra
nim_mahasiswaFK	varchar(45)	NO	PRI	NULL	
kode_matkulFK	varchar(45)	NO	PRI	NULL	

2 rows in set (0.010 sec)

MariaDB [kuliah]> .