AININ MAYASYIFA ALDA

L200180195

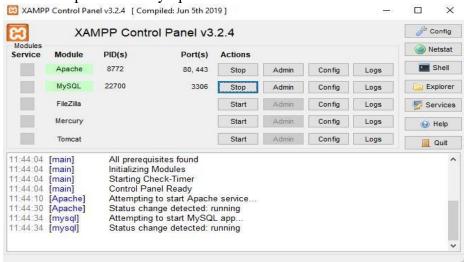
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MODUL 4 : Data Definition Language (DDL)

Tugas : Implementasikan hasil rancangan database yang menangani data kuliah pada modul 2 ke dalam program MySql.

Langkah-langkah:

- Jalankan XAMPP Control Penel
- 2. Jalankan Apache dan MySql



- Buka Command Promp dan login sebagai root ke MySql, seperi di langkah pada modul 1
- 4. Buat database baru dengan perintah berikut : Create database kuliah;
- 5. Hubungkan ke dalam databse yang telah dibuat dengan perintah berikut : Sehingga akan muncul pemberitahuan 'databse changed', use kuliah;
- 6. Membuat tabel dosen

```
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\ASUS\cd..

C:\Users\ASUS\cd..

C:\\cd C:\xampp\xampp\mysql\bin

C:\xampp\xampp\mysql\bin>mysql\bin

C:\xampp\xampp\mysql\bin>mysql\bin

C:\xampp\xampp\mysql\bin>monitor. Commands end with ; or \g.

Your MariaDB connection id is 24

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;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use kuliah;
Database changed

MariaDB [(none)]> use kuliah;
Database changed

MariaDB [(none)]> use kuliah;
Database NARCHAR(45) NOT NULL,

-> alamat_dosen VARCHAR(45) NOT NULL,

-> alamat_dosen VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.203 sec)
```

- 7. Membuat tabel mata kuliah (matkul)
- 8. Membuat tabel mahasiswa
- 9. Membuat tabel ruang
- 10. Membuat tabel dosen has mahasiswa
- 11. Membuat tabel mahasiswa has matkul
- 12. Membuat tabel dosen has matkul

```
amant_dosen VARCHAR(45) NOT NULL);

Query OK, 0 rows affected (0.203 sec)

MariaDB [kuliah]> CREATE TABLE matkul(

-> kode_matkul INTEGER PRIMARY KEY,

-> nama_matkul VARCHAR(45) NOT NULL,

-> jumlah_matkul INTEGER DEFAULT 0 NOT NULL);

Query OK, 0 rows affected (0.293 sec)

MariaDB [kuliah]> CREATE TABLE mahasiswa(

-> NIM_mahasiswa VARCHAR(45) NOT NULL,

-> nama_mahasiswa VARCHAR(20) PRIMARY KEY,

-> nama_mahasiswa VARCHAR(45) NOT NULL,

-> kode_ruangfK INTEGER REFERENCES ruang(kode_ruang) ON DELETE SET NULL ON UPDATE CASCADE);

Query OK, 0 rows affected (0.444 sec)

MariaDB [kuliah]> CREATE TABLE ruang(

-> kode_ruang INTEGER REFERENCES ruang(kode_ruang) ON DELETE SET NULL ON UPDATE CASCADE);

Query OK, 0 rows affected (0.444 sec)

MariaDB [kuliah]> CREATE TABLE ruang(

-> kode_ruang INTEGER REFERULT 0 NOT NULL);

Query OK, 0 rows affected (0.252 sec)

MariaDB [kuliah]> CREATE TABLE dosen has_mahasiswa(

-> nip_dosenfK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,

-> NIM_mahasiswafk VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NUL ON UPDATE CASCADE);

ERROR 1964 (42900): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'NUL ON UPDATE CASCADE,

-> NIM_mahasiswafk VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE,

-> NIM_mahasiswafk VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE);

NIM_mahasiswafk VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE);
```

```
MariaDB [kuliah]> CREATE TABLE dosen_has_mahasiswa(
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,
-> NIM_mahasiswaf VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE);
Query OK, 0 rows affected (0.441 sec)

MariaDB [kuliah]> CREATE TABLE mahasiswa has matkul(
-> NIM_mahasiswaf VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE,
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE CASCADE);
Query OK, 0 rows affected (0.400 sec)

MariaDB [kuliah]> CREATE TABLE dosen_has_matkul(
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE;
ERROR 1664 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi on for the right syntax to use near '' at line 2

MariaDB [kuliah]> CREATE TABLE dosen_has_mahasiswa(
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE)
-> >:
-> >;

ERROR 1664 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi on for the right syntax to use near '): 'at line 3

MariaDB [kuliah]> CREATE TABLE dosen_has_matkul(
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE CASCADE,
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE CASCADE,
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE CASCADE);

Query OK, 0 rows affected (0.293 sec)
```

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

14. Kemudian untuk melihat struktur tiap tabel dapat dilakukan dengan perintah describe. Misalkan untuk melihat struktur tabel mahasiswa dapat dilakukan dengan perintah describe dosen;

