## PRAKTIKUM SISTEM BASIS DATA MODUL 4

**Data Definition Language (DDL)** 



Oleh : Fariz Taufiqul Hafidz

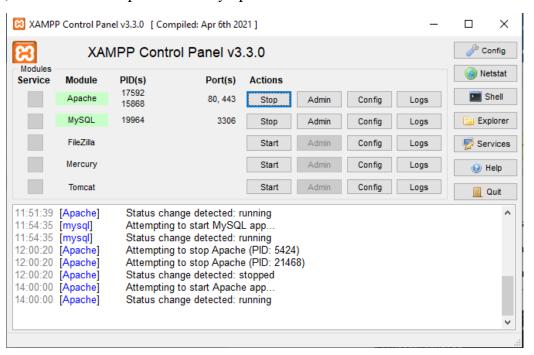
Nim : L200210192

Kelas : D

PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS KOMUNIKASI DAN INFORMATIKA
UNIVERSITAS MUHAMMADIYAH SURAKARTA

## A. Praktikum

- 1. Jalankan XAMPP control panel.
- 2. Jalankan server apache dan mysql.



3. Buka cmd dan login sebagai root ke mysql.

```
Command Prompt - mysql -u root -p
                                                                             Microsoft Windows [Version 10.0.19044.2728]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Asus>cd..
C:\Users>cd..
C:\>cd xampp\mysql\bin
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 12
Server version: 10.4.27-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
 db_latihan1
 informatika
 information_schema
 mysql
 performance_schema
 phpmyadmin
  test
 rows in set (0.001 sec)
```

- 4. Buat database perbankan.
- 5. Hubungkan kedalam database yang telah dibuat dengan perintah 'use perbankan;'.

```
Command Prompt - mysql -u root -p
                                                                             П
                                                                                   Х
MariaDB [(none)]> CREATE DATABASE Perbankan;
Query OK, 1 row affected (0.003 sec)
MariaDB [(none)]> show databases;
Database
 db_latihan1
 informatika
 information schema
 mysql
 perbankan
 performance_schema
 phpmyadmin
 test
8 rows in set (0.001 sec)
MariaDB [(none)]> use perbankan;
Database changed
```

6. Membuat tabel nasabah.

```
Command Prompt - mysql -u root -p

MariaDB [perbankan]> CREATE TABLE nasabah
-> (
-> id_nasabah INTEGER PRIMARY KEY,
-> nama_nasabah VARCHAR(45) NOT NULL,
-> alamat_nasabah VARCHAR(255) NOT NULL
-> );
Query OK, 0 rows affected (0.023 sec)
```

7. Membuat tabel cabang\_bank.

```
Command Prompt - mysql -u root -p

MariaDB [perbankan]> create table cabang_bank
-> (
-> kode_cabang varchar(20) primary key,
-> nama_cabang varchar(45) unique not null,
-> alamat_cabang varchar(255) not null
-> );
Query OK, 0 rows affected (0.030 sec)
```

8. Membuat tabel rekening.

```
Command Prompt-mysql -uroot-p

MariaDB [perbankan]> create table rekening
-> (
-> no_rekening integer primary key,
-> kode_cabangFK varchar(20) references cabang_bank(kode_cabang) on delete cascade on update cascade,
-> pin varchar(20) default '1234' not null,
-> saldo integer default 0 not null
-> );
Query OK, 0 rows affected (0.017 sec)
```

9. Membuat tabel transaksi.

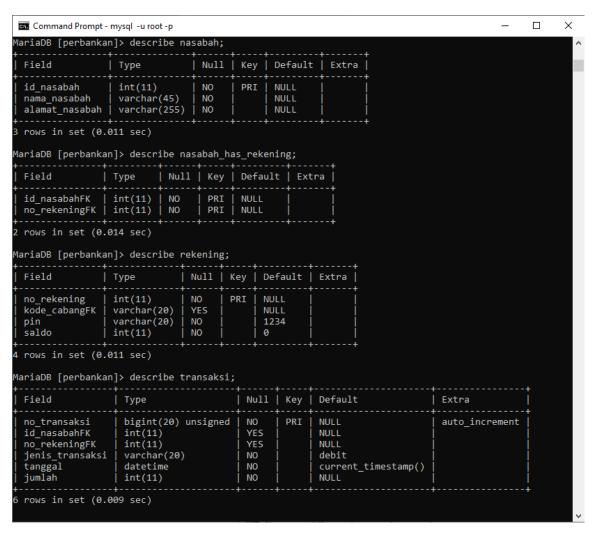
10. Membuat tabel nasabah\_has\_rekening.

```
Command Prompt-mysql -u root-p

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 (0.017 sec)
```

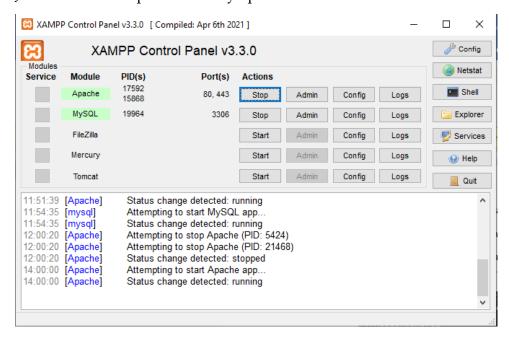
11. Show database perbankan.

12. Describe masing-masing tabel.



## B. Tugas

- 1. Jalankan XAMPP control panel.
- 2. Jalankan server apache dan mysql.



3. Buka cmd dan login sebagai root ke mysql.

```
Command Prompt - mysql -u root -p

Microsoft Windows [Version 10.0.19044.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Asus>cd..

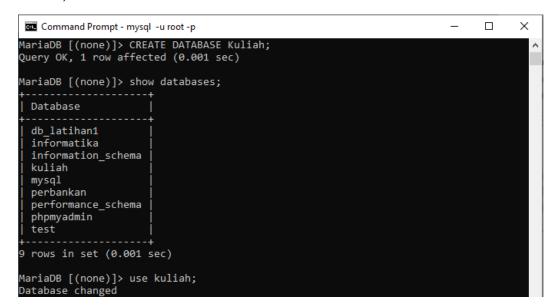
C:\Users>cd..

C:\vcd xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 13
Server version: 10.4.27-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.
```

- 4. Buat database kuliah.
- 5. Hubungkan kedalam database yang telah dibuat dengan perintah 'use kuliah;'.



6. Membuat tabel mahasiswa.

```
Command Prompt - mysql -u root -p

MariaDB [kuliah] > create table mahasiswa
-> (
-> nim_mahasiswa varchar(20) primary key,
-> nama_mahasiswa varchar(45) not null,
-> alamat_mahasiswa varchar(255) not null
-> );

Query OK, 0 rows affected (0.017 sec)
```

7. Membuat tabel dosen.

```
Command Prompt - mysql -u root -p

MariaDB [kuliah]> create table dosen
-> (
-> nid_dosen integer primary key,
-> nama_dosen varchar(45) not null,
-> alamat_dosen varchar(255) not null
-> );
Query OK, 0 rows affected (0.019 sec)
```

8. Membuat tabel mata\_kuliah.

```
Command Prompt - mysql -u root -p

MariaDB [kuliah]> create table mata_kuliah (
    -> kode_mk varchar(10) primary key,
    -> nama_mk varchar(45) not null,
    -> sks integer default 0 not null
    -> );

Query OK, 0 rows affected (0.014 sec)
```

9. Membuat tabel ruang\_kuliah.

```
Command Prompt - mysql -u root -p

MariaDB [kuliah]> create table ruang_kuliah (
-> kode_ruang varchar(20) primary key,
-> nama_ruang varchar(45) not null,
-> gedung_ruang varchar(20) not null
-> );
Query OK, 0 rows affected (0.015 sec)
```

10. Membuat tabel mahasiswa\_has\_mata\_kuliah.

11. Show database kuliah.

## 12. Describe masing-masing tabel.

