Nama: Galih Prayoga

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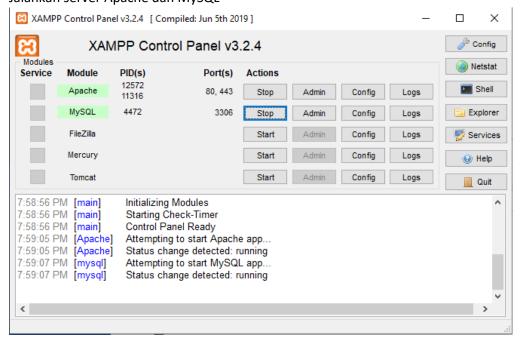
## **Modul 4 (Praktikum dan Tugas)**

# • PRAKTIKUM

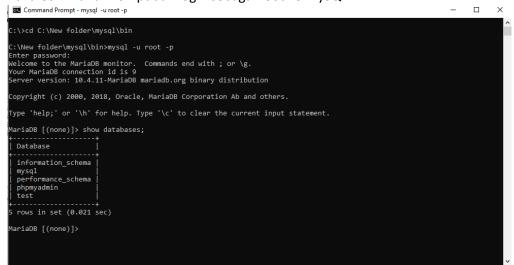
1. Jalankan XAMPP Control Panel



2. Jalankan server Apache dan MySQL

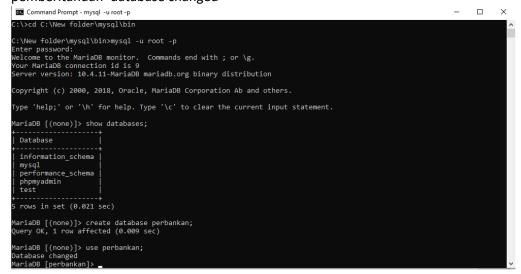


3. Buka Command Prompt dan login sebagai root ke MySQL



4. Membuat database baru dengan perintah 'create database perbankan'

5. Menghubungkan ke dalam database dengan perintah 'use perbankan;' sehingga muncul pemberitahuan 'database changed'



### 6. Membuat tabel nasabah

```
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 (0.034 sec)
```

### 7. Membuat table cabang bank

```
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 (0.040 sec)
```

### 8. Membuat table rekening

```
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 (0.038 sec)
```

### 9. Membuat table transaksi

```
MariaDB [perbankan]> CREATE TABLE transaksi (
-> no_transaksi SERIAL PRIMARY KEY,
-> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah)
-> ON DELETE SET NULL ON UPDATE CASCADE,
-> no_rekeningFK INTEGER REFERENCES rekening(no_rekening)
-> ON DELETE SET NULL ON UPDATE CASCADE,
-> jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,
-> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
-> jumlah INTEGER NOT NULL CHECK (jumlah>=20000)
-> );
Query OK, 0 rows affected (0.041 sec)
```

### 10. Membuat table nasabah has rekening

```
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 (0.037 sec)
```

11. Menampilkan hasil pembuatan database 'show tables;'

12. Melihat struktur tiap table dengan perintah 'describe <spasi> nama tabel'

### TUGAS

1. Membuat database baru bernama "data perkuliahan" serta membuat table mahasiswa

```
MariaDB [perbankan]> create database data_perkuliahan;
Query OK, 1 row affected (0.003 sec)

MariaDB [perbankan]> use data_perkuliahan;
Database changed

MariaDB [data_perkuliahan]> CREATE TABLE mahasiswa(
    -> id_mahasiswa INTEGER PRIMARY KEY,
    -> nama_mahasiswa VARCHAR(45) NOT NULL,
    -> alamat_mahasiswa VARCHAR(255) NOT NULL
    -> );
Query OK, 0 rows affected (0.040 sec)

MariaDB [data_perkuliahan]> __
```

### 2. Membuat table dosen

```
MariaDB [data_perkuliahan]> CREATE TABLE dosen(
-> id_dosen INTEGER PRIMARY KEY,
-> nama_dosen VARCHAR(45) NOT NULL,
-> alamat_dosen VARCHAR(255) NOT NULL
-> );
Query OK, 0 rows affected (0.036 sec)

MariaDB [data_perkuliahan]> _
```

### 3. Membuat table matakuliah

```
MariaDB [data_perkuliahan]> CREATE TABLE matakuliah(
-> kode_matakuliah VARCHAR(20) PRIMARY KEY,
-> nama_matakuliah VARCHAR(45) UNIQUE NOT NULL
-> );
Query OK, 0 rows affected (0.045 sec)

MariaDB [data_perkuliahan]>
```

### 4. Membuat table kelas

```
MariaDB [data_perkuliahan]> CREATE TABLE kelas(
-> nama_kelas VARCHAR(20) PRIMARY KEY,
-> jumlah_mahasiswa INTEGER NOT NULL,
-> nama_ruang VARCHAR(20) UNIQUE NOT NULL
-> );
Query OK, 0 rows affected (0.039 sec)

MariaDB [data_perkuliahan]> _
```

### 5. Mengecek hasil pembuatan database

### 6. Melihat struktur table

