

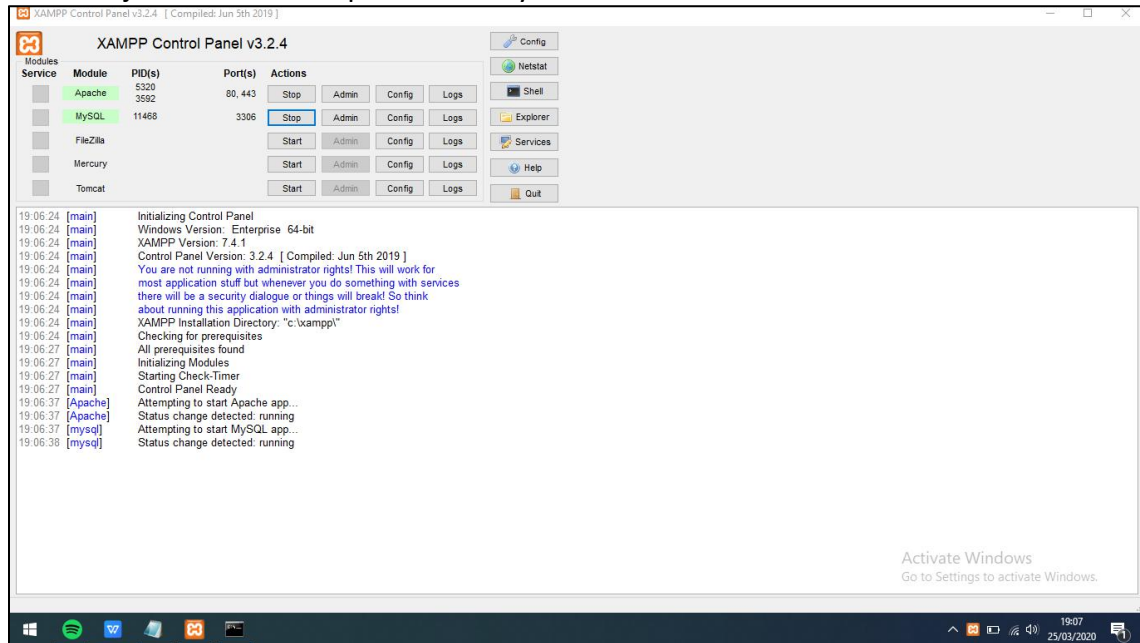
# LAPORAN PRAKTIKUM

## SISTEM BASIS DATA

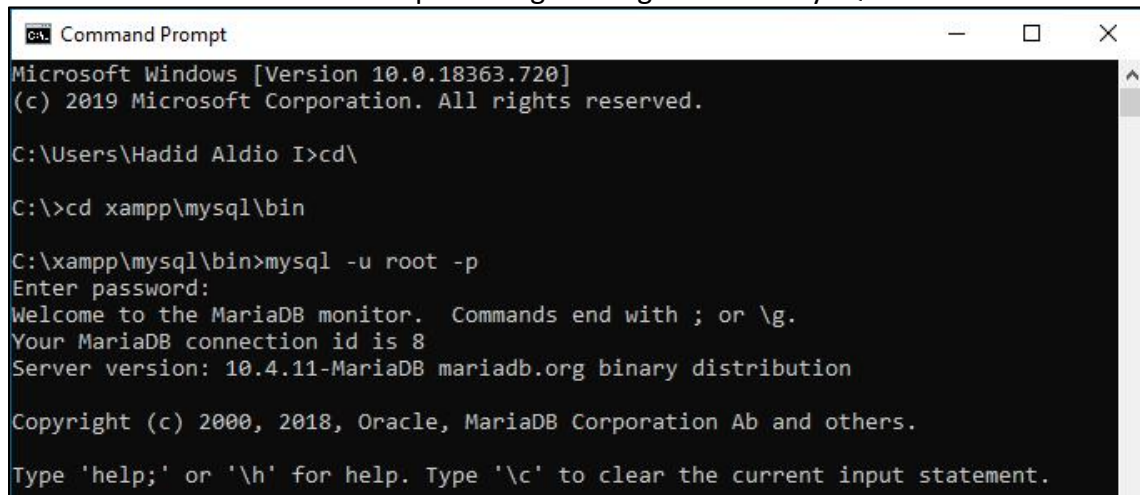
### MODUL 4. DATA DEFINITION LANGUAGE (DDL)

#### D. Langkah-langkah Praktikum

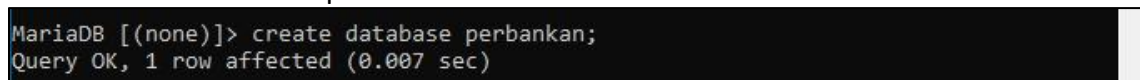
1. Menjalankan XAMPP Control Panel
2. Menjalankan server Apache dan MySQL



3. Membuka Command Prompt dan login sebagai root ke MySQL



4. Membuat database perbankan



5. Menghubungkan ke dalam database perbankan



## 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 (0.029 sec)
```

## 7. Membuat tabel 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 (0.035 sec)
```

## 8. Membuat tabel 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 (0.035 sec)
```

## 9. Membuat tabel 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 (0.034 sec)
```

## 10. Membuat tabel 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 (0.045 sec)
```

## 11. Mengecek hasil

```
MariaDB [perbankan]> show tables;
```

```
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank         |
| nasabah             |
| nasabah_has_rekening |
| rekening            |
| transaksi           |
+-----+
5 rows in set (0.001 sec)
```

## 12. Melihat struktur tabel

```
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 (0.023 sec)
```