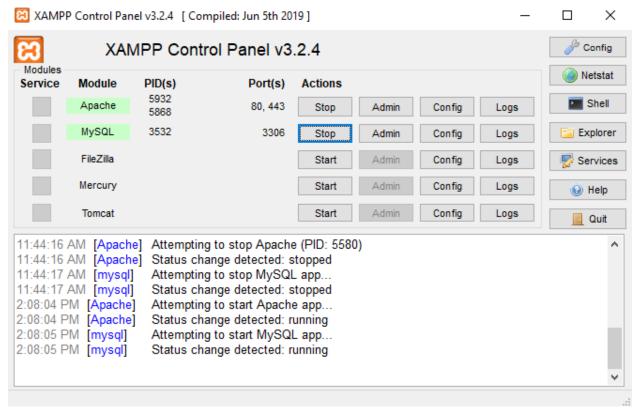
Nama : Tomy Satmoko Aji

Nim : L200180057

Kelas : C

- 1. Jalankan XAMPP Control Panel
- 2. Jalankan server Apache dan MySQL



3. Buka command promt dan login seperti modul 1

```
C:\Users\tomy>cd\
C:\>cd C:\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 8
Server version: 10.4.8-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)]> _
```

4. Buat database baru

```
MariaDB [(none)]> create database perbankan;
ERROR 1007 (HY000): Can't create database 'perbankan'; database exists
```

5. Hubungkan kedalam database

```
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]>
```

6. Membuat table nasabah

```
MariaDB [perbankan]> CREATE TABLE nasabah(id_nasabah INTEGER PRIMARY KEY, nama_nasabah VARCHAR(45) NOT NULL, alamat_nasa
bah VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.869 sec)
MariaDB [perbankan]>
```

7. Membuat table nasabah

```
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
-> );

Ωuery OK, 0 rows affected (1.644 sec)

MariaDB [perbankan]> _
```

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 (0.302 sec)
```

9. Membuat table nasabah

```
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)
   -> );
```

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 (0.303 sec)
```

11. Cek table

```
MariaDB [perbankan]> show tables;

+-----+

| Tables_in_perbankan |

+-----+

| cabang_bank |

| nasabah |

| nasabah_has_rekening |

| transaksi |

+-----+

4 rows in set (0.086 sec)
```

12. Lihat struktur table

### a. Nasabah

MariaDB [perbankan]> describe nasabah;					
Field				Default	
alamat_nasabah	int(11)   varchar(45)   varchar(255)	NO NO NO	PRI	NULL NULL NULL	
+					

# b. Cabang\_bank

```
MariaDB [perbankan]> describe cabang_bank;
 Field
                               | Null | Key | Default | Extra
                 Type
 kode cabang
               varchar(20)
                              NO
                                       PRI
                                             NULL
 nama_cabang
                 varchar(45)
                                NO
                                       UNI
                                             NULL
 alamat_cabang | varchar(255) | NO
                                             NULL
 rows in set (0.050 sec)
```

## c. Rekening

```
MariaDB [perbankan]> describe rekening;
 Field
                Type
                             | Null | Key | Default | Extra
                               NO
 no_rekening
                | int(11)
                                      PRI
                                            NULL
 kode cabangFK
                               YES
                 varchar(20)
                                            NULL
 pin
                 varchar(20)
                               NO
                                            1234
 saldo
                 int(11)
                               NO
                                            0
4 rows in set (0.044 sec)
MariaDB [perbankan]>
```

#### d. Transaksi

```
MariaDB [perbankan]> describe transaksi;
 Field
                  Type
                                       | Null | Key | Default | Extra
 no_transaksi |
                 bigint(20) unsigned
                                                 PRI
                                                                 auto_increment
                                                       NULL
                  varchar(20)
varchar(20)
 kode_cabangFK
                                         YES
                                                       NULL
 pin
                                                       1234
                 int(11)
 saldo
                                                       0
4 rows in set (0.044 sec)
MariaDB [perbankan]>
```

## e. Nasabah has rekening

#### Versi full

