Praktikum Basis Data Modul 4

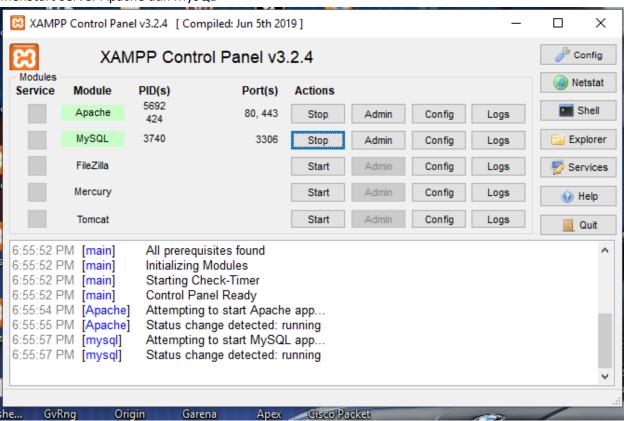
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Langkah-langkah Praktikum

Menjalankan XAMPP

menStart Server Apache dan MySQL



Membuka MySQL lewat Command Prompt

```
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 22
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.
```

Membuat database baru

```
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.010 sec)
```

Menghubungkan kedalam database yang baru kita buat

```
MariaDB [perbankan]> use perbankan;
Database changed
MariaDB [perbankan]>
```

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 (0.213 sec)

MariaDB [perbankan]>
```

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 (0.215 sec)

MariaDB [perbankan]>
```

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 (0.217 sec)

MariaDB [perbankan]>
```

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 (0.182 sec)

MariaDB [perbankan]>
```

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 (0.174 sec)

MariaDB [perbankan]>
```

Cek hasil pembuatan database dengan perintah 'show tables;' dan untuk melihat struktur tiap tabel menggunakan perintah 'describe nama_tabel;'. Misal, describe nasabah; .

```
MariaDB [perbankan]> show tables
  Tables_in_perbankan
  cabang_bank
  nasabah
  nasabah_has_rekening
  rekening
  transaksi
5 rows in set (0.001 sec)
MariaDB [perbankan]> describe nasabah;
                                    Null | Key | Default | Extra
 Field
                   Type
  id_nasabah
                    varchar(45)
  nama_nasabah
  alamat_nasabah | varchar(255)
  rows in set (0.023 sec)
MariaDB [perbankan]> describe cabang_bank;
                                  Null | Key | Default | Extra
  Field
                  | Type
                   varchar(20)
varchar(45)
  kode_cabang
nama cabang
                                   NO
                                           PRI
                                                 NULL
                                                 NULL
                                   NO
                                           UNI
                                   NO
  alamat_cabang | varchar(255)
                                                 NULL
  rows in set (0.023 sec)
 lariaDB [perbankan]> describe rekening;
  Field
                 Type
                                  Null | Key | Default | Extra |
  no_rekening
kode_cabangFK
                                          PRI
                   varchar(20)
                   varchar(20)
  saldo
                                  NO
                                                О
  rows in set (0.021 sec)
```

```
MariaDB [perbankan]> describe transaksi;
  Field
                                                Null | Key | Default
                                                                                       | Extra
                       Type
                      bigint(20) unsigned int(11) int(11)
  no_transaksi
id_nasabahFK
                                                         PRI
                                                                NULL
                                                                                         auto_increment
                                                                NULL
  no_rekeningFK
                                                                NULL
  jenis_transaksi
tanggal
                       varchar(20)
datetime
                                                                debit
                                                NO
                                                                current_timestamp()
                                                NO
                                                               NULL
  jumlah
                       int(11)
6 rows in set (0.030 sec)
MariaDB [perbankan]> describe nasabah_has_rekening;
  Field
                   | Type
                              | Null | Key | Default | Extra |
  id_nasabahFK | int(11)
no_rekeningFK | int(11)
                               NO
                                        PRI
                                               NULL
                                        PRI
                                               NULL
2 rows in set (0.030 sec)
MariaDB [perbankan]>
```

NB: titik koma(";") jangan sampai lupa disetiap perintah;)