Nama: Muhammad Rizqi Erdyansyah

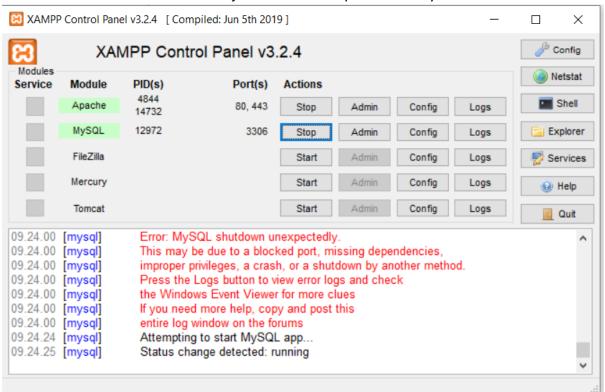
NIM : L200180171

Kelas: G

LAPORAN KEGIATAN PRAKTIKUM

SISTEM BASIS DATA MODUL 4

1. Jalankan XAMPP Control Panel dan jalankan server Apache dan MySQL



2. Buka cmd dan login sebagai root ke MySQL

```
Command Prompt-mysql -uroot-p

'-u' is not recognized as an internal or external command, operable program or batch file.

D:\app\XAWPP\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 28
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.

MariaDB [(none)]>
```

3. Buat database baru dan membuat table nasabah

```
Command Prompt - mysql -u root -p
D:\app\XAMPP\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \gray{g}.
Your MariaDB connection id is 28
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.
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.001 sec)
MariaDB [(none)]> use perbankan;
Database changed
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 (1.755 sec)
MariaDB [perbankan]> show tables;
Tables_in_perbankan
nasabah
1 row in set (0.001 sec)
```

4. Mebuat table cabang bank

5. Membuat table rekening dan table transaksi

```
Command Prompt - mysql -u root -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 (0.050 sec)
MariaDB [perbankan]> CREATE TABLE transaksi(
    -> no transaksi INTEGER 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 (0.064 sec)
MariaDB [perbankan]> show tables;
 Tables_in_perbankan |
  cabang_bank
  nasabah
 rekening
  transaksi
4 rows in set (0.001 sec)
```

6. Membuat table 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 (1.821 sec)
MariaDB [perbankan]> show tables;
 Tables_in_perbankan
 cabang_bank
 nasabah
 nasabah_has_rekening
 rekening
 transaksi
 rows in set (0.001 sec)
MariaDB [perbankan]>
```

7. Melihat struktur tiap table

Command Prompt - mysql -u root -p										
MariaDB [perbankan]> describe nasabah;										
Field .	Type		Null		Key	Def	Default Ex		+ ra	
id_nasabah nama_nasabah alamat_nasabah	int(11 varcha		NO NO NO		PRI	NUL	NULL NULL NULL			
3 rows in set (0.008 sec)										
MariaDB [perbankan]> describe cabang_bank;										
Field	Type		Nu	.1 Key		Default Ex		Extr	a	
kode_cabang nama_cabang alamat_cabang	varchar varchar varchar	(45)	NO NO NO		PRI UNI	NULL NULL NULL			+ 	
+										
MariaDB [perbankan]> describe rekening;										
+ Field	+ Type		Nul	L K	ey	Defau	+- lt	 Extra		
no_rekening kode_cabangFK pin saldo	int(11) varchar varchar	(20)	NO YES NO NO	P	PRI	NULL NULL 1234 0			 	
Command Prompt - mysql -u root -p										
MariaDB [perbankan]> describe transaksi;										
+ Field	+ Type	Nu	ull Key		+ Default			+ -	Extra	†
no_transaksi id_nasabahFK no_rekeningFK jenis_transaksi tanggal jumlah	int(11)) SS SS O O	PRI	NULL NULL debi	NULL NULL NULL debit current_timestamp() NULL		p()		
+										
MariaDB [perbankan]> describe nasabah_has_rekening;										
Field	Type	ype Null H		Defa	ılt Extra					
id_nasabahFK no_rekeningFK			PRI PRI	NULL NULL						
2 rows in set (0.005 sec)										