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NIM : L200180192


Kelas : G


## Modul 4

### Praktikum Sistem Basis Data

#### Kegiatan


























Jalankan server Apache & MySQL








 XAMPP Control Panel v3.2.4 [ Compiled: Jun 5th 2019 ]



### XAMPP Control Panel v3.2.4

Modules

Service	Module	PID(s)	Port(s)	Actions
	Apache	11292 12128	80, 443	 Stop  Admin  Config  Logs
	MySQL	9408	3306	 Stop  Admin  Config  Logs
	FileZilla			 Start  Admin  Config  Logs
	Mercury			 Start  Admin  Config  Logs
	Tomcat			 Start  Admin  Config  Logs

 Config  
 Netstat  
 Shell  
 Explorer  
 Services  
 Help  
 Quit

```
06.37.14 [main] Initializing Control Panel
06.37.14 [main] Windows Version: Home 64-bit
06.37.14 [main] XAMPP Version: 7.4.3
06.37.14 [main] Control Panel Version: 3.2.4 [ Compiled: Jun 5th 2019 ]
06.37.14 [main] You are not running with administrator rights! This will work for
06.37.14 [main] most application stuff but whenever you do something with services
06.37.14 [main] there will be a security dialogue or things will break! So think
06.37.14 [main] about running this application with administrator rights!
06.37.14 [main] XAMPP Installation Directory: "c:\xampp\"
06.37.15 [main] Checking for prerequisites
06.37.49 [main] All prerequisites found
06.37.49 [main] Initializing Modules
06.37.50 [main] Starting Check-Timer
06.37.50 [main] Control Panel Ready
06.38.47 [Apache] Attempting to start Apache app...
06.38.47 [Apache] Status change detected: running
06.38.49 [mysql] Attempting to start MySQL app...
06.38.54 [mysql] Status change detected: running
```

Buka Command Prompt dan login sebagai root ke MySQL seperti langkah pada modul 1

```
Microsoft Windows [Version 10.0.18362.175]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\RISKA MEILINA PUSPA>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: 10.4.11-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)]>
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
5 rows in set (0.537 sec)
```

Buat database dengan perintah create database perbankan;

```
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (1.207 sec)
```

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 (14.876 sec)
```

Membuat tabel cabang\_bank

```
MariaDB [perbankan]> CREATE TABLE cabang_bank(
  -> kode_bank VARCHAR(20) PRIMARY KEY,
  -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
  -> alamat_cabang VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (1.655 sec)
```

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 (2.910 sec)
```

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 (1.597 sec)
```

Membuat tabel nasabah\_has\_rekening

```
MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening(  
  -> 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,  
  -> PRIMARY KEY(id_nasabahFK, no_rekeningFK)  
  -> );  
Query OK, 0 rows affected (0.772 sec)
```

Mengecek hasil pembuatan database dengan perintah show tables;

```
MariaDB [perbankan]> show tables;  
+-----+  
| Tables_in_perbankan |  
+-----+  
| cabang_bank         |  
| nasabah             |  
| nasabah_has_rekening |  
| rekening            |  
| transaksi           |  
+-----+  
5 rows in set (0.237 sec)
```

Melihat struktur tiap tabel dengan perintah describe nasabah;

```
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 (0.238 sec)
```

```
MariaDB [perbankan]>
```