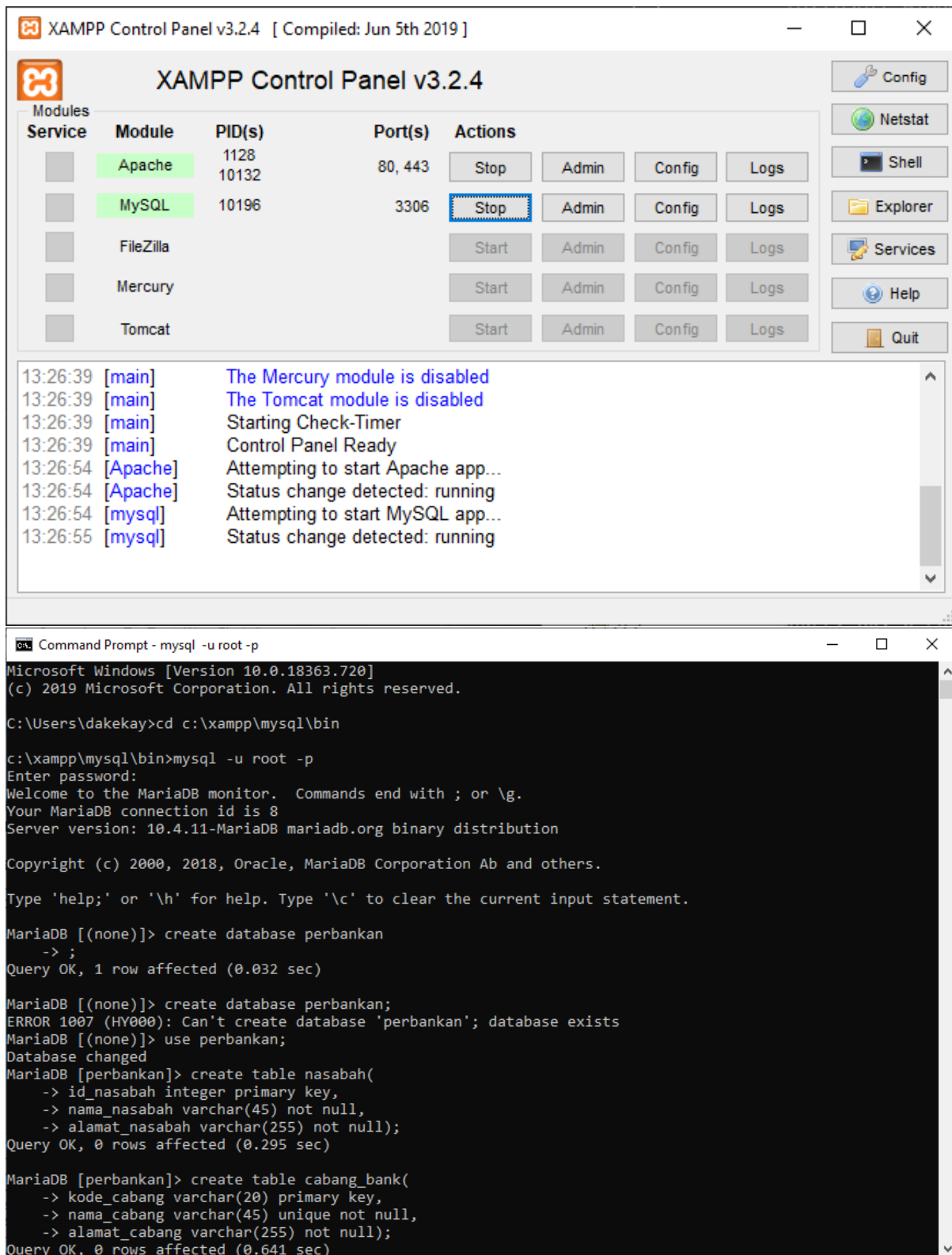


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Sistem Basis Data Modul 4



The image shows two windows from a Windows operating system. The top window is the XAMPP Control Panel v3.2.4, and the bottom window is a Command Prompt running MySQL.

XAMPP Control Panel v3.2.4

Modules

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	1128 10132	80, 443	Stop Admin Config Logs
<input type="checkbox"/>	MySQL	10196	3306	Stop Admin Config Logs
<input type="checkbox"/>	FileZilla			Start Admin Config Logs
<input type="checkbox"/>	Mercury			Start Admin Config Logs
<input type="checkbox"/>	Tomcat			Start Admin Config Logs

13:26:39 [main] The Mercury module is disabled
13:26:39 [main] The Tomcat module is disabled
13:26:39 [main] Starting Check-Timer
13:26:39 [main] Control Panel Ready
13:26:54 [Apache] Attempting to start Apache app...
13:26:54 [Apache] Status change detected: running
13:26:54 [mysql] Attempting to start MySQL app...
13:26:55 [mysql] Status change detected: running

Command Prompt - mysql -u root -p

```
Microsoft Windows [Version 10.0.18363.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\dakekay>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)]> create database perbankan
-> ;
Query OK, 1 row affected (0.032 sec)

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

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 (0.641 sec)
```

```

Command Prompt - mysql -u root -p

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 (0.295 sec)

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 (0.641 sec)

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 (0.291 sec)

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 (0.335 sec)

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 (0.286 sec)

```

```

Command Prompt - mysql -u root -p

  -> 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 (0.335 sec)

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 (0.286 sec)

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+-----+
5 rows in set (0.002 sec)

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 (0.065 sec)

MariaDB [perbankan]>

```

Tugas

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p

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 perkuliahan;
Query OK, 1 row affected (0.005 sec)

MariaDB [(none)]> use perkuliahan;
Database changed
MariaDB [perkuliahan]> create table mahasiswa(
  -> id_mhs integer primary key,
  -> nama_mhs varchar(45) not null,
  -> alamat_mhs varchar(255) not null);
Query OK, 0 rows affected (0.321 sec)

MariaDB [perkuliahan]> create table dosen(
  -> id_dosen integer primary key,
  -> nama_dosen varchar(45) not null,
  -> alamat_dosen varchar(255) not null);
Query OK, 0 rows affected (0.386 sec)

MariaDB [perkuliahan]> create table matkul(
  -> id_matkul integer primary key,
  -> nama_matkul varchar(45) not null);
Query OK, 0 rows affected (0.320 sec)

MariaDB [perkuliahan]> create table ruang_kelas(
  -> id_kelas integer primary key,
  -> nama_kelas varchar(10) not null);
Query OK, 0 rows affected (0.529 sec)
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p

MariaDB [perkuliahan]> show tables;
+-----+
| Tables_in_perkuliahan |
+-----+
| dosen                  |
| mahasiswa              |
| matkul                 |
| ruang_kelas            |
+-----+
4 rows in set (0.001 sec)

MariaDB [perkuliahan]> describe dosen;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_dosen   | int(11)   | NO   | PRI | NULL    |       |
| nama_dosen | varchar(45) | NO   |     | NULL    |       |
| alamat_dosen | varchar(255) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.052 sec)

MariaDB [perkuliahan]> describe mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_mhs     | int(11)   | NO   | PRI | NULL    |       |
| nama_mhs   | varchar(45) | NO   |     | NULL    |       |
| alamat_mhs | varchar(255) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.092 sec)

MariaDB [perkuliahan]> _
```