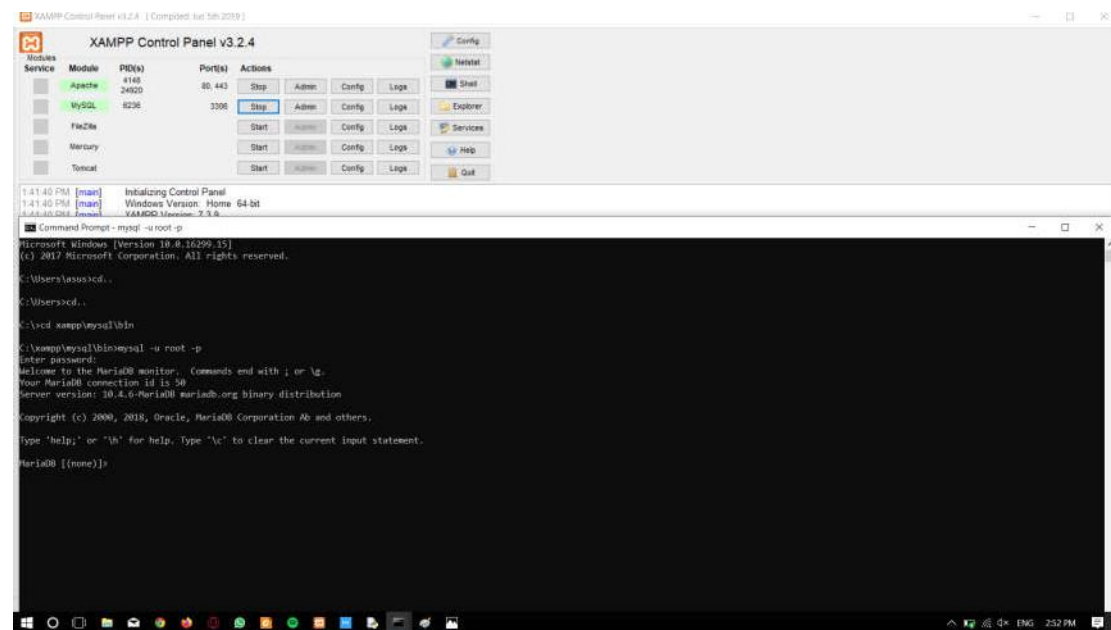


Nama : M afrizal  
NIM : L200180022  
Kelas : B

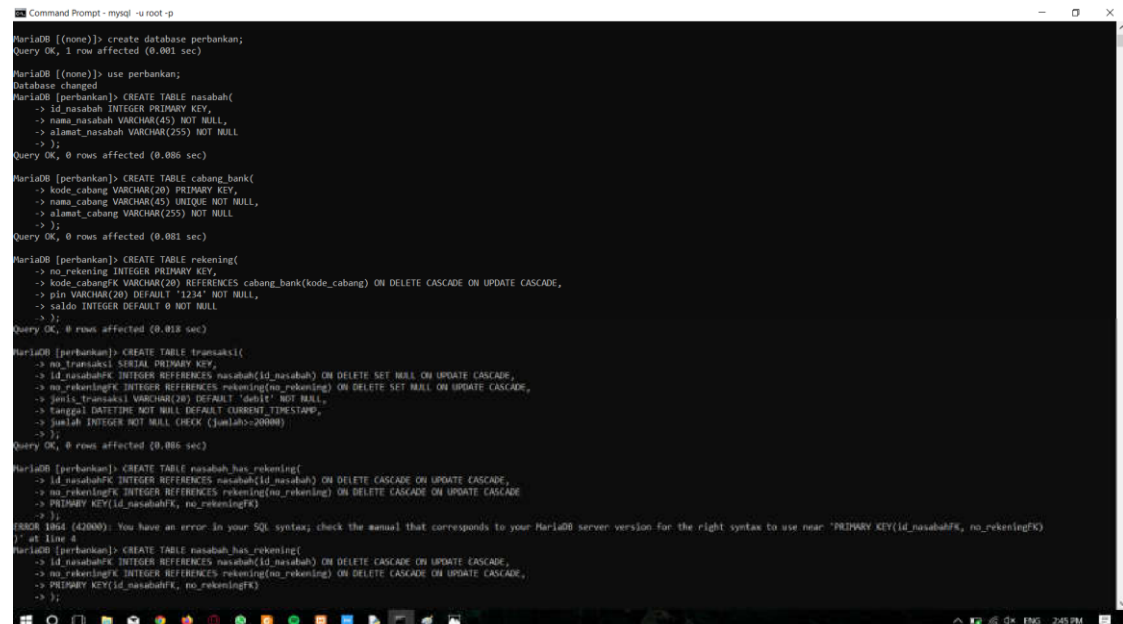
## Modul 4

## Langkah-Langkah Praktikum

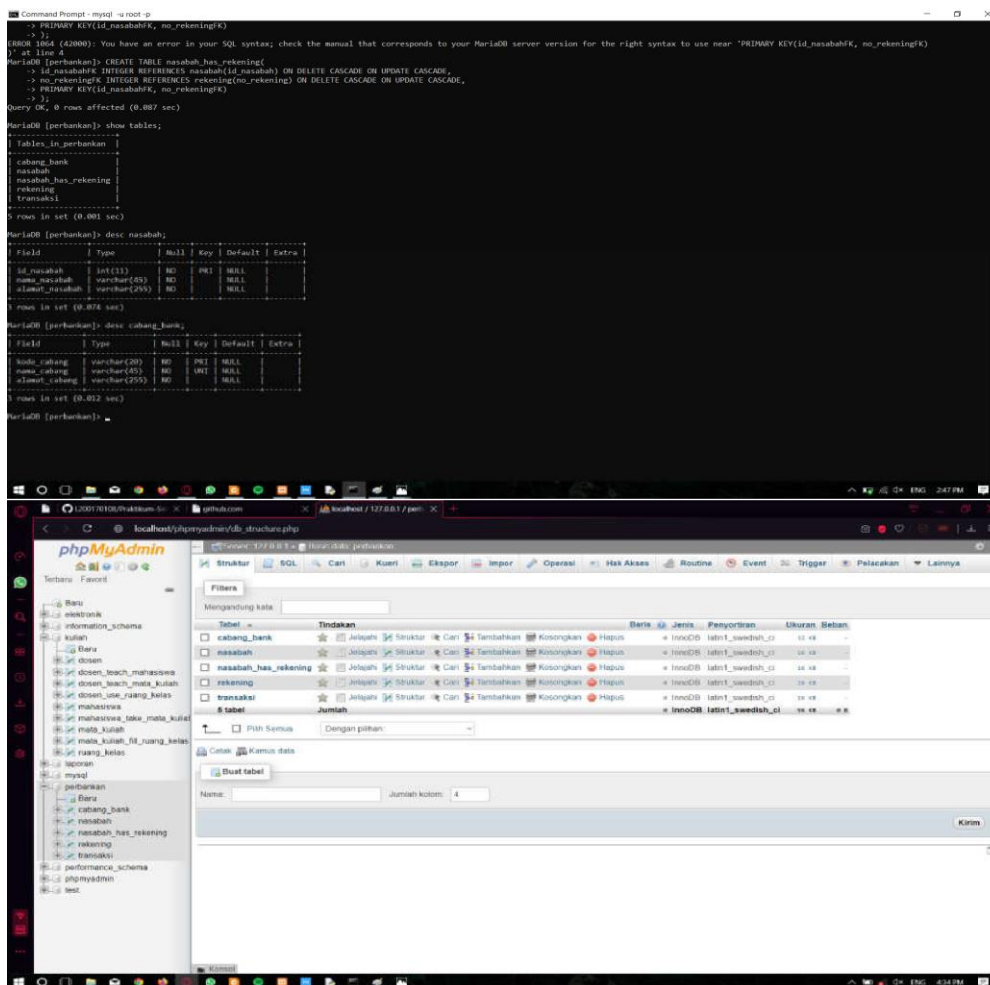
1.



2. Create tabel “Perbankan”



### 3. Tampilan tabel Perbankan



# Tugas

## 1. membuat database “kuliah” dan membuat tablenya

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.16299.15]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\asuscd..
C:\Users\asuscd..
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 50
Server version: 10.4.6-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 kuliah;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> CREATE TABLE mahasiswa(
  -> nama_mahasiswa VARCHAR(45) NOT NULL,
  -> nip VARCHAR(20) PRIMARY KEY,
  -> alamat_mahasiswa VARCHAR(255) NOT NULL,
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ';' at line 5
MariaDB [kuliah]> CREATE TABLE mahasiswa(
  -> nama_mahasiswa VARCHAR(45) NOT NULL,
  -> nip VARCHAR(20) PRIMARY KEY,
  -> nip VARCHAR(20) PRIMARY KEY,
  -> alamat_mahasiswa VARCHAR(255) NOT NULL,
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ';' at line 6
MariaDB [kuliah]> CREATE TABLE mahasiswa(
  -> nama_mahasiswa VARCHAR(45) NOT NULL,
  -> nip VARCHAR(20) PRIMARY KEY,
  -> alamat_mahasiswa VARCHAR(255) NOT NULL,
  -> );
Query OK, 0 rows affected (0.010 sec)

MariaDB [kuliah]> CREATE TABLE dosen(
  -> nama_dosen VARCHAR(45) NOT NULL,
  -> nip VARCHAR(20) NOT NULL,
  -> nip VARCHAR(20) PRIMARY KEY,
  -> );
Query OK, 0 rows affected (0.008 sec)
```

```
Command Prompt - mysql -u root -p
MariaDB [kuliah]> CREATE TABLE dosen(
  -> nama_dosen VARCHAR(45) NOT NULL,
  -> nip VARCHAR(20) PRIMARY KEY,
  -> alamat_dosen VARCHAR(255) NOT NULL,
  -> );
Query OK, 0 rows affected (0.028 sec)

MariaDB [kuliah]> CREATE TABLE mata_kuliah(
  -> kode_mtkul VARCHAR(20) PRIMARY KEY,
  -> nama_mtkul VARCHAR(45) NOT NULL,
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ';' at line 4
MariaDB [kuliah]> CREATE TABLE mata_kuliah(
  -> kode_mtkul VARCHAR(20) PRIMARY KEY,
  -> nama_mtkul VARCHAR(45) NOT NULL,
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ';' at line 4
MariaDB [kuliah]> CREATE TABLE dosen(
  -> kode_mtkul VARCHAR(20) PRIMARY KEY,
  -> nama_mtkul VARCHAR(45) NOT NULL,
  -> );
Query OK, 0 rows affected (0.020 sec)

MariaDB [kuliah]> CREATE TABLE ruang_kelas(
  -> nama_ruang VARCHAR(20) NOT NULL,
  -> kode_ruang VARCHAR(20) PRIMARY KEY,
  -> );
Query OK, 0 rows affected (0.018 sec)

MariaDB [kuliah]> CREATE TABLE DOSEN_USE_RUANG_KELAS(
  -> nipFK VARCHAR(20) REFERENCES mahasiswa(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> nipFK VARCHAR(20) REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(nipFK, nipFK),
  -> );
Query OK, 0 rows affected (0.078 sec)

MariaDB [kuliah]> CREATE TABLE DOSEN_USE_RUANG_KELAS(
  -> nipFK VARCHAR(20) REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> kode_ruangFK VARCHAR(20) REFERENCES ruang_kelas(kode_ruang) ON DELETE CASCADE ON UPDATE CASCADE,
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'ruang_kelas(kode_ruang) ON DELETE CASCADE ON UPDATE CA' at line 3
MariaDB [kuliah]> CREATE TABLE DOSEN_USE_RUANG_KELAS(
  -> nipFK VARCHAR(20) REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> kode_ruangFK VARCHAR(20) REFERENCES ruang_kelas(kode_ruang) ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(nipFK, kode_ruangFK),
  -> );
Query OK, 0 rows affected (0.018 sec)
```

```
Command Prompt - mysql -u root -p
MariaDB [kuliah]> CREATE TABLE DOSEN_USE_RUANG_KELAS(
  -> nipFK VARCHAR(20) REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> kode_ruangFK VARCHAR(20) REFERENCES ruang_kelas(kode_ruang) ON DELETE CASCADE ON UPDATE CASCADE,
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'ruang_kelas(kode_ruang) ON DELETE CASCADE ON UPDATE CA' at line 2
MariaDB [kuliah]> CREATE TABLE DOSEN_USE_RUANG_KELAS(
  -> nipFK VARCHAR(20) REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> kode_ruangFK VARCHAR(20) REFERENCES ruang_kelas(kode_ruang) ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(nipFK, kode_ruangFK),
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'ruang_kelas(kode_ruang) ON DELETE CASCADE ON UPDATE CA' at line 3
MariaDB [kuliah]> CREATE TABLE DOSEN_USE_RUANG_KELAS(
  -> nipFK VARCHAR(20) REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> kode_ruangFK VARCHAR(20) REFERENCES ruang_kelas(kode_ruang) ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(nipFK, kode_ruangFK),
  -> );
Query OK, 0 rows affected (0.018 sec)

MariaDB [kuliah]> CREATE TABLE dosen_teach_mata_kuliah(
  -> nipFK VARCHAR(20) REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> kode_mtkulFK VARCHAR(20) REFERENCES mata_kuliah(kode_mtkul) ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(nipFK, kode_mtkulFK),
  -> );
Query OK, 0 rows affected (0.011 sec)

MariaDB [kuliah]> CREATE TABLE dosen_teach_mahasiswa(
  -> nipFK VARCHAR(20) REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> nipFK VARCHAR(20) REFERENCES mahasiswa(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(nipFK, nipFK),
  -> );
Query OK, 0 rows affected (0.002 sec)

MariaDB [kuliah]> CREATE TABLE mahasiswa_teach_mata_kuliah(
  -> nipFK VARCHAR(20) REFERENCES mahasiswa(nip) ON DELETE CASCADE ON UPDATE CASCADE,
  -> kode_mtkulFK VARCHAR(20) REFERENCES mata_kuliah(kode_mtkul) ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(kode_mtkulFK, kode_ruangFK),
  -> );
Query OK, 0 rows affected (0.010 sec)
```

## 2. menampilkan tables

```
Command Prompt - mysql -u root -p
MariaDB [kuliab]> show tables;
+-----+
| Tables_in_kuliab |
+-----+
| dosen          |
| dosen_teach_mahasiswa |
| dosen_teach_mata_kuliab |
| dosen_uas_ruang_kelas |
| mahasiswa       |
| mahasiswa_take_mata_kuliab |
| mata_kuliab     |
| mata_kuliab_fill_ruang_kelas |
| ruang_kelas    |
+-----+
0 rows in set (0.001 sec)

MariaDB [kuliab]> desc dosen;
+-----+
| Table (dosen) |
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| id     | int(11) | NO   | PRI | NULL    |       |
| nama_dosen | varchar(255) | NO   |     | NULL    |       |
| alamat_dosen | varchar(255) | NO   |     | NULL    |       |
+-----+
0 rows in set (0.000 sec)

MariaDB [kuliab]> desc mahasiswa;
+-----+
| Table |
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| id     | int(11) | NO   | PRI | NULL    |       |
| nama_mahasiswa | varchar(45) | NO   |     | NULL    |       |
| alamat_mahasiswa | varchar(255) | NO   |     | NULL    |       |
+-----+
0 rows in set (0.000 sec)

MariaDB [kuliab]> desc ruang_kelas;
+-----+
| Table |
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nama_ruang | varchar(45) | NO   | PRI | NULL    |       |
| kode_ruang | varchar(200) | NO   |     | NULL    |       |
+-----+
0 rows in set (0.000 sec)

MariaDB [kuliab]> desc mata_kuliab;
+-----+
| Table |
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_mata_kuliab | varchar(45) | NO   | PRI | NULL    |       |
| nama_mata_kuliab | varchar(45) | NO   |     | NULL    |       |
+-----+
0 rows in set (0.000 sec)

MariaDB [kuliab]> desc mahasiswa_take_mata_kuliab;
+-----+
| Table |
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| id     | int(11) | NO   | PRI | NULL    |       |
| nama_mahasiswa | varchar(45) | NO   |     | NULL    |       |
| kode_mata_kuliab | varchar(45) | NO   |     | NULL    |       |
+-----+
0 rows in set (0.000 sec)

MariaDB [kuliab]> desc dosen_teach_mahasiswa;
+-----+
| Table |
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| id     | int(11) | NO   | PRI | NULL    |       |
| nama_dosen | varchar(255) | NO   |     | NULL    |       |
| nama_mahasiswa | varchar(45) | NO   |     | NULL    |       |
+-----+
0 rows in set (0.000 sec)

MariaDB [kuliab]> desc mata_kuliab_fill_ruang_kelas;
+-----+
| Table |
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_mata_kuliab | varchar(45) | NO   | PRI | NULL    |       |
| kode_ruang | varchar(200) | NO   |     | NULL    |       |
+-----+
0 rows in set (0.000 sec)

MariaDB [kuliab]>
```

