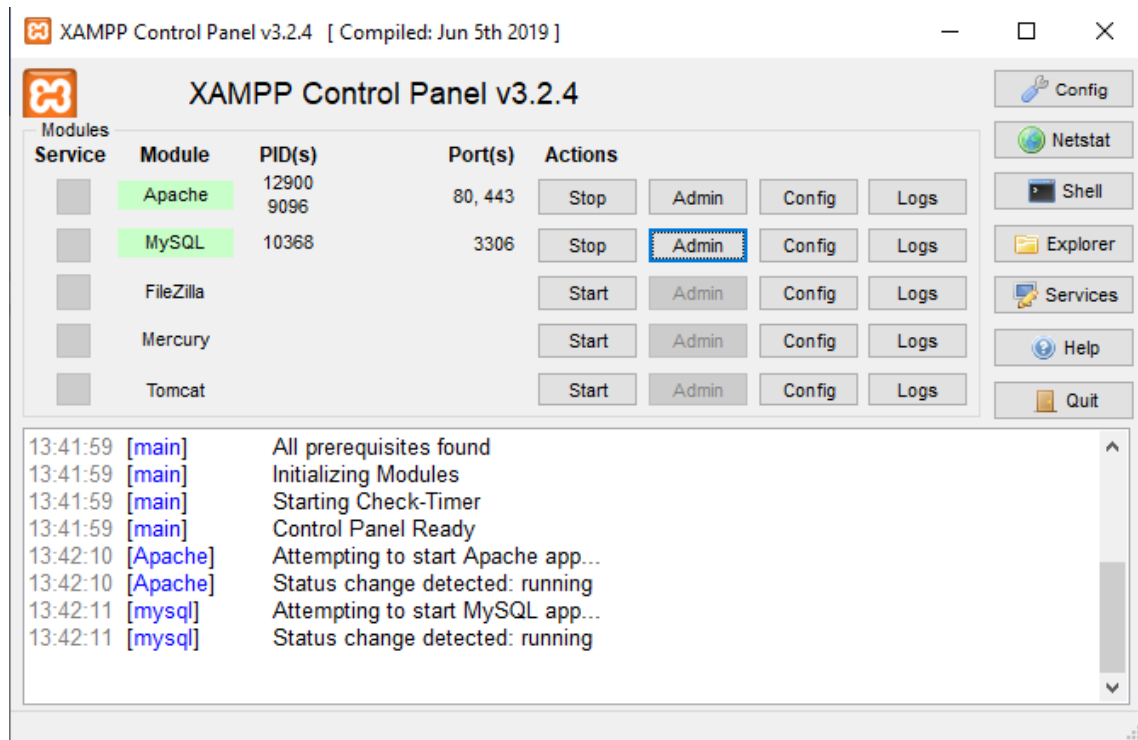**Nama**   : **Muhammad Saiful Mujab**
Nim   : **L200180139**
Kelas   : **E**

Tugas

```
C:\WINDOWS\system32\cmd.exe - 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 (0.252 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 (0.289 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 (0.259 sec)
```

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

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;
+----------------+--------------+------+-----+---------+-------+
| 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 (0.033 sec)

MariaDB [perbankan]> describe cabang_bank;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| kode_cabang  | varchar(20)  | NO   | PRI | NULL    |       |
| nama_cabang  | varchar(45)  | NO   | UNI | NULL    |       |
| alamat_cabang | varchar(255) | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
3 rows in set (0.024 sec)

MariaDB [perbankan]>
```

TUGAS

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\pasha>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 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.

MariaDB [(none)]> CREATE DATABASE dbkuliah;
Query OK, 1 row affected (0.004 sec)

MariaDB [(none)]> use dbkuliah;
Database changed
MariaDB [dbkuliah]> CREATE TABLE mahasiswa(
    -> nim_mhs INTEGER PRIMARY KEY,
    -> nama_mhs VARCHAR(255) NOT NULL,
    -> alamat_mhs VARCHAR(255) NOT NULL,
    -> gender_mhs VARCHAR(25) NOT NULL
    -> );
Query OK, 0 rows affected (0.335 sec)

MariaDB [dbkuliah]> CREATE TABLE dosen(
    -> nip_dosen INTEGER PRIMARY KEY,
    -> nama_dosen VARCHAR(255) NOT NULL,
    -> alamat_dosen VARCHAR(255) NOT NULL
    -> );
Query OK, 0 rows affected (0.389 sec)


MariaDB [dbkuliah]> ALTER TABLE mahasiswa ADD nip_dosen INTEGER REFERENCES dosen(nip_dosen)
    -> ON DELETE SET NULL ON UPDATE CASCADE;
Query OK, 0 rows affected (0.179 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
EtaniaDB [dbkuliah]> CREATE TABLE nuang kelas(
    -› kode rk INT EG ER PR I f'tARY K EY,
    -> kapasitas INTEGER NOT NULL

Queny OK, 0 nods affected (0.334 sec)

EtaniaDB [dbkuliah]> describe nuang kelas;

   Field        Type       Null    Key   Default   Extna

   kode nk    | int(11) | NO    | PRI  |NULL              |
   kapasitas  | int(11) | NO    |      | NULL             |

2 nods in set (0.100 sec)

EtaniaDB [dbkuliah]> CREATE TABLE mata kuliah(
    -›  kode mk INT EG ER PR I f'tARY K EY,
    -› kode rk INT EG ER RE F ERENC ES ruang kelas( kode rk)
    -› ON DE L ET E S ET NU L L ON UPDAT E CASCADE ,
    -› nama mk VARCHAR ( 2S ) NOT NU LL ,
    -> jumlah sks INTEGER NOT NULL

Queny OK, 0 nods affected (0.271 sec)

EtaniaDB [dbkuliah]> CREATE TABLE mahasisua has mata kuliah(
    -› nip chs INT EG ER RE FERENC ES mahasi sea (nip chs)
    -› ON DELET E CASCADE ON UPDAT E CASCADE,
    -› kode mk INT EG ER RE FERENC ES rata kuliah(kode mk)
    -› ON DELET E CASCADE ON UPDAT E CASCADE,
    -› PRI DIARY K EY(nip chs, kode mk)

Queny OK, 0 nods affected (0.288 sec)
```

```
EtaniaDB [dbkuliah]> show tables;

  Tables in dbkuliah          |

  dosen
  mahasisua
  mahasisua has mata kuliah
  mata kuliah
  nuang kelas

S nods in set (0.001 sec)

EtaniaDB [dbkuliah]> describe dosen;

  Field              Type            Null | Key | Default | Extna

  nip dosen     | int(11)      | NO    | PRI | NULL              |
  nama dosen      vanchan(255)   NO          NULL              |
  alamat dosen | vanchan(255) | NO    |       | NULL            |

3 nods in set (0.026 sec)

EtaniaDB [dbkuliah]> describe mahasisua;

  Field              Type            Null | Key | Default | Extna

  nip   chs     | int (11)      | NO | PRI  | NULL              |
  nama  chs     | va rcha r ( 255 ) | NO  |     | NU LL            |
  alamat  chs   | va rcha r (255)  | NO  |     | NULL             |
  gende r  chs  | va rcha r ( 2S ) | NO  |     | NU LL            |
  nip dosen | int(11) | YES | | NULL                            |

S nods in set (0.024 sec)
```

```
EtaniaDB [dbkuliah]> describe mata kuliah;

    Field            Type            Null | Key | Default | Extna

    kode  mk     |  int(11)      |  NO | PRI |   NULL              |
    kode  rk     |  int(11)      |  YES |     |  NULL              |
    nama mk        varchar(2S)     NO           NULL               |
    jumlah  sks  |  int(11)      |  NO |      |  NULL              |

4 nods in set (0.094 sec)

EtaniaDB [dbkuliah]> describe nuang kelas;

   Field      | Type    | Null | Key | Default | Extna

   kode nk    | int(11) | NO   | PRI | NULL              |
   kapasitas  | int(11) | NO   |     | NULL              |

2 nods in set (0.024 sec)

EtaniaDB [dbkuliah]> describe mahasisua has mata kuliah;

   Field    | Type    | Null | Key | Default | Extna

   nip  chs | int (11)  | NO   | PRI | NULL              |
   kode mk  | int (11)  | NO   | PRI | NULL              |

2 nods in set (0.026 sec)

EtaniaDB [dbkuliah]>
```