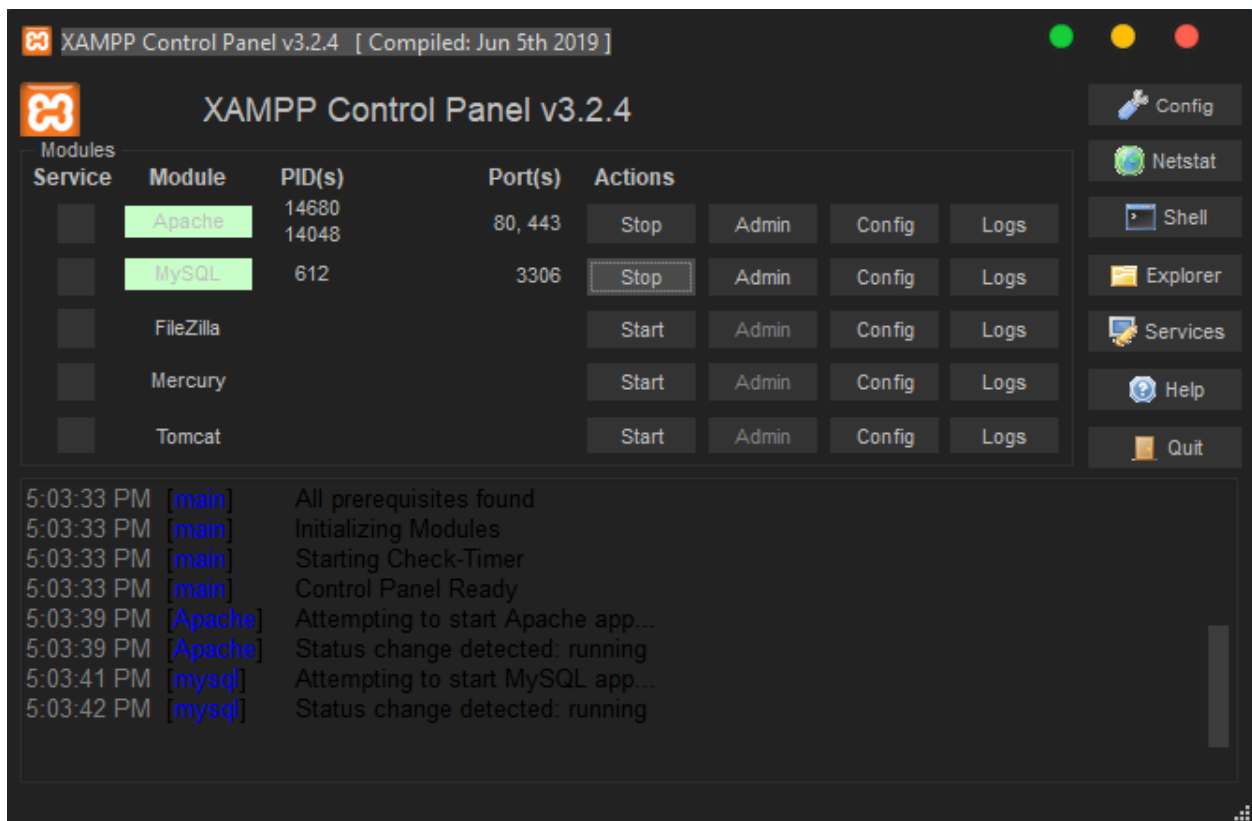Nama : Nur Taufiq Hidayat
NIM : L200180069
Kelas : C

TUGAS MODUL 5

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

3. Buka Command Prompt dan login sebagai root ke MySQL seperti di Modul 1.

```
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Diamond>cd
C:\Users\Diamond

C:\Users\Diamond>cd\

C:\>cd C:\xampp\mysql\bin

C:\xampp\mysql\bin>mysql -u root
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)]>
```

4. Pilih database perbankan dengan perintah 'use tugasm4;'. Sehingga akan muncul pemberitahuan "database changed".

```
MariaDB [(none)]> use tugasm4;
Database changed
```

5. Memasukkan data ke dalam database perbankan.
   - Tabel mahasiswa

```
MariaDB [tugasm4]> INSERT INTO mahasiswa(nim_mhs, nip_dosenFK, nama_mhs, alamat_mhs) VALUES
    -> ('L200180078', '101', 'Akbar Probo Baskoro', 'Magetan'),
    -> ('L200180065', '103', 'Wahyu Setyaji Rama Dwijaya', 'Sragen'),
    -> ('L200180088', '108', 'Aprinta Sewelastami', 'Sragen'),
    -> ('L200180066', '102', 'Annisa Nugraheni', 'Sukoharjo'),
    -> ('L200180087', '109', 'Reylian Prealdream Anareka', 'Solo'),
    -> ('L200180079', '110', 'Rahmat Beny Susanto', 'Karanganyar'),
    -> ('L200180084', '107', 'Sindhiana Aulia Friska', 'Klaten'),
    -> ('L200180074', '104', 'Abdillah Ahmad', 'Klaten'),
    -> ('L200180069', '105', 'Nur Taufiq Hidayat', 'Nganjuk'),
    -> ('L200180058', '106', 'Arindita Prihastama', 'Ngawi');
Query OK, 10 rows affected (0.096 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [tugasm4]> select * from mahasiswa;
+------------+-------------+----------------------------+-------------+
| nim_mhs    | nip_dosenFK | nama_mhs                   | alamat_mhs  |
+------------+-------------+----------------------------+-------------+
| L200180058 |         106 | Arindita Prihastama        | Ngawi       |
| L200180065 |         103 | Wahyu Setyaji Rama Dwijaya | Sragen      |
| L200180066 |         102 | Annisa Nugraheni           | Sukoharjo   |
| L200180069 |         105 | Nur Taufiq Hidayat         | Nganjuk     |
| L200180074 |         104 | Abdillah Ahmad             | Klaten      |
| L200180078 |         101 | Akbar Probo Baskoro        | Magetan     |
| L200180079 |         110 | Rahmat Beny Susanto        | Karanganyar |
| L200180084 |         107 | Sindhiana Aulia Friska     | Klaten      |
| L200180087 |         109 | Reylian Prealdream Anareka | Solo        |
| L200180088 |         108 | Aprinta Sewelastami        | Sragen      |
+------------+-------------+----------------------------+-------------+
10 rows in set (0.049 sec)
```

   - Tabel dosen

```
MariaDB [tugasm4]> INSERT INTO dosen(nip_dosen, nama_dosen) VALUES
    -> ('101', 'Husni Thamrin, Dr., S.T., M.T.'),
    -> ('102', 'Azizah Fatmawati, S.T.'),
    -> ('103', 'Ihsan Cahyo Utomo, S.Kom., M.Kom.'),
    -> ('104', 'Fatah Yasin Al Irsyadi, S.T., M.T.'),
    -> ('105', 'Aris Rakhmadi, S.T., M.Eng.'),
    -> ('106', 'Devi Afriyanti Puspa Putri, S.Kom., M.Sc.'),
    -> ('107', 'Dimas Aryo Anggoro, S.Kom., M.Sc.'),
    -> ('108', 'Endah Sudarmilah, Dr., S.T., M.Eng.'),
    -> ('109', 'Yogiek Indra Kurniawan, S.T., M.T.'),
    -> ('110', 'Dyah Priyawati, S.T.');
Query OK, 10 rows affected (0.110 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [tugasm4]> select * from dosen;
+-----------+--------------------------------------------+
| nip_dosen | nama_dosen                                 |
+-----------+--------------------------------------------+
|       105 | Aris Rakhmadi, S.T., M.Eng.                |
|       102 | Azizah Fatmawati, S.T.                     |
|       106 | Devi Afriyanti Puspa Putri, S.Kom., M.Sc.  |
|       107 | Dimas Aryo Anggoro, S.Kom., M.Sc.          |
|       110 | Dyah Priyawati, S.T.                       |
|       108 | Endah Sudarmilah, Dr., S.T., M.Eng.        |
|       104 | Fatah Yasin Al Irsyadi, S.T., M.T.         |
|       101 | Husni Thamrin, Dr., S.T., M.T.             |
|       103 | Ihsan Cahyo Utomo, S.Kom., M.Kom.          |
|       109 | Yogiek Indra Kurniawan, S.T., M.T.         |
+-----------+--------------------------------------------+
10 rows in set (0.001 sec)
```

- Tabel matakuliah

```
MariaDB [tugasm4]> INSERT INTO matakuliah(kode_mk, kode_ruangFK, nip_dosenFK, nama_mk, smt_mk) VALUES
    -> ('IF401', 0407, 101, 'Algoritma dan Struktur Data', 4),
    -> ('IF402', 0410, 107, 'Sistem Basis Data', 4),
    -> ('IF408', 0311, 103, 'Praktikum Jaringan Komputer', 4),
    -> ('IF104', 0102, 109, 'Pemrograman Web Statis', 1),
    -> ('IF302', 0408, 105, 'Matematika Diskret', 3),
    -> ('IF505', 0408, 110, 'Probabilitas dan Statistik', 5),
    -> ('IF102', 0102, 108, 'Kalkulus', 1),
    -> ('IF203', 0410, 102, 'Sistem Informasi', 2),
    -> ('IF307', 0410, 106, 'Komunikasi Data', 3),
    -> ('IF201', 0407, 104, 'Sistem Digital', 2);
Query OK, 10 rows affected (0.193 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [tugasm4]> select * from matakuliah;
+---------+--------------+-------------+-----------------------------+--------+
| kode_mk | kode_ruangFK | nip_dosenFK | nama_mk                     | smt_mk |
+---------+--------------+-------------+-----------------------------+--------+
| IF102   |          102 |         108 | Kalkulus                    |      1 |
| IF104   |          102 |         109 | Pemrograman Web Statis      |      1 |
| IF201   |          407 |         104 | Sistem Digital              |      2 |
| IF203   |          410 |         102 | Sistem Informasi            |      2 |
| IF302   |          408 |         105 | Matematika Diskret          |      3 |
| IF307   |          410 |         106 | Komunikasi Data             |      3 |
| IF401   |          407 |         101 | Algoritma dan Struktur Data |      4 |
| IF402   |          410 |         107 | Sistem Basis Data           |      4 |
| IF408   |          311 |         103 | Praktikum Jaringan Komputer |      4 |
| IF505   |          408 |         110 | Probabilitas dan Statistik  |      5 |
+---------+--------------+-------------+-----------------------------+--------+
10 rows in set (0.000 sec)
```

- Tabel ruangkelas

```
MariaDB [tugasm4]> INSERT INTO ruangkelas(kode_ruang, nama_ruang) VALUES
    -> (0407, 'J0407'),
    -> (0408, 'J0408'),
    -> (0410, 'J0410'),
    -> (0311, 'LABRPL'),
    -> (0312, 'LABJAR'),
    -> (0313, 'LABSI'),
    -> (0403, 'J0403'),
    -> (0305, 'J0305'),
    -> (0101, 'JSEM Barat'),
    -> (0102, 'JSEM Timur');
Query OK, 10 rows affected (3.426 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [tugasm4]> select * from ruangkelas;
+------------+------------+
| kode_ruang | nama_ruang |
+------------+------------+
|        305 | J0305      |
|        403 | J0403      |
|        407 | J0407      |
|        408 | J0408      |
|        410 | J0410      |
|        101 | JSEM Barat |
|        102 | JSEM Timur |
|        312 | LABJAR     |
|        311 | LABRPL     |
|        313 | LABSI      |
+------------+------------+
10 rows in set (0.001 sec)
```

- Tabel mahasiswa_has_matakuliah

```
MariaDB [tugasm4]> INSERT INTO mahasiswa_has_matakuliah(nim_mhsFK, kode_mkFK) VALUES
    -> ('L200180065', 'IF104'),
    -> ('L200180088', 'IF201'),
    -> ('L200180079', 'IF302'),
    -> ('L200180058', 'IF307'),
    -> ('L200180069', 'IF408'),
    -> ('L200180074', 'IF402'),
    -> ('L200180078', 'IF401'),
    -> ('L200180084', 'IF203'),
    -> ('L200180066', 'IF102'),
    -> ('L200180087', 'IF505'),
    -> ('L200180065', 'IF203'),
    -> ('l200180058', 'IF408'),
    -> ('L200180079', 'IF402'),
    -> ('L200180074', 'IF408'),
    -> ('L200180087', 'IF102'),
    -> ('L200180066', 'IF505'),
    -> ('l200180078', 'IF104'),
    -> ('L200180084', 'IF302'),
    -> ('L200180088', 'IF402'),
    -> ('L200180069', 'IF307');
Query OK, 20 rows affected (0.185 sec)
Records: 20  Duplicates: 0  Warnings: 0

MariaDB [tugasm4]> select * from mahasiswa_has_matakuliah;
+------------+----------+
| nim_mhsFK  | kode_mkFK |
+------------+----------+
| L200180058 | IF307    |
| l200180058 | IF408    |
| L200180065 | IF104    |
| L200180065 | IF203    |
| L200180066 | IF102    |
| L200180066 | IF505    |
| L200180069 | IF307    |
| L200180069 | IF408    |
| L200180074 | IF402    |
| L200180074 | IF408    |
| l200180078 | IF104    |
| L200180078 | IF401    |
| L200180079 | IF302    |
| L200180079 | IF402    |
| L200180084 | IF203    |
| L200180084 | IF302    |
| L200180087 | IF102    |
| L200180087 | IF505    |
| L200180088 | IF201    |
| L200180088 | IF402    |
+------------+----------+
20 rows in set (0.001 sec)
```