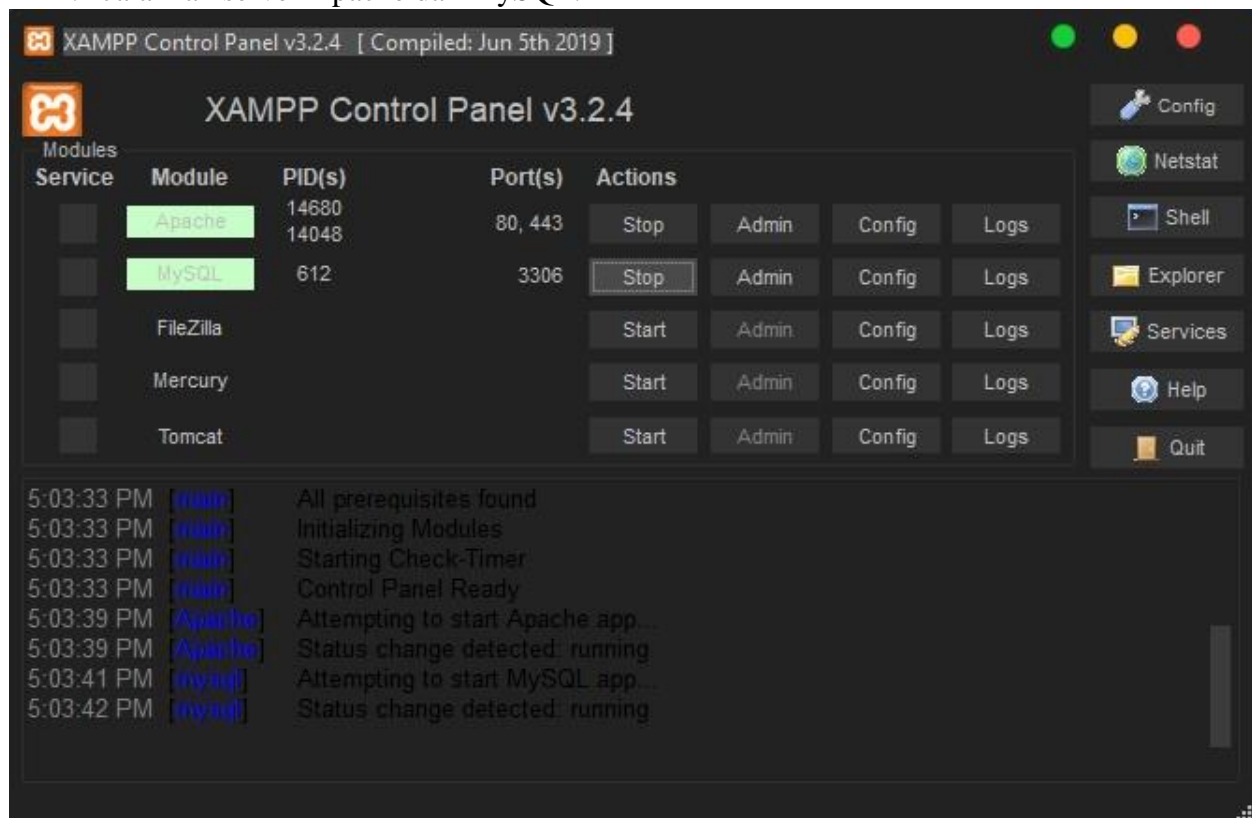


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Kelas : C

## 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 universitas dengan perintah 'use tugasm4;'. Sehingga akan muncul pemberitahuan "database changed".

```

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

```

5. Memasukkan data ke dalam database universitas.

- 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', 'Yogie 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 | Yogie 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)
```