Nama: Arindita Prihastama

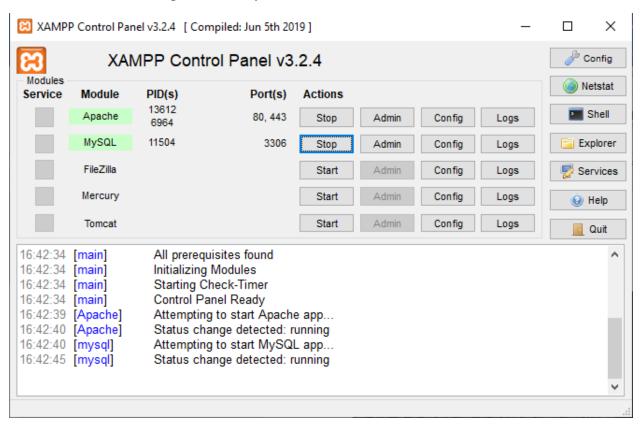
NIM : L200180058

Kelas : C

TUGAS MODUL 5

Data Manipulation Language(DML)

- 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.

```
C:\Users\Lenovo>cd/
C:\>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)]>
```

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
MariaDB [tugasm4]> INSERT INTO mahasiswa(nim_mhs, nip_dosenFK, nama_mht
    -> ('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'),
    -> ('L200180087', '110', 'Rahmat Beny Susanto', 'Karanganyar'),
    -> ('L200180079', '110', '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
Records: 10 Duplicates: 0 Warnings: 0
MariaDB [tugasm4]> select * from mahasiswa;
                           | nip_dosenFK | nama_mhs
                                                                                                                 alamat_mhs
    1 200180058
                                              106
                                                          Arindita Prihastama
                                                                                                                     Ngawi
    L200180065
                                              103
                                                          Wahyu Setyaji Rama Dwijaya
                                                                                                                     Sragen
    L200180066
                                              102
                                                          Annisa Nugraheni
                                                                                                                     Sukoharjo
    L200180069
                                                          Nur Taufiq Hidayat
                                              105
                                                                                                                     Nganjuk
                                                           Abdillah Ahmad
    L200180074
                                              104
                                                                                                                     Klaten
    L200180078
                                              101
                                                          Akbar Probo Baskoro
                                                                                                                    Magetan
                                                          Rahmat Beny Susanto
    L200180079
                                              110
                                                                                                                     Karanganyar
    L200180084
                                              107
                                                          Sindhiana Aulia Friska
                                                                                                                     Klaten
                                                          Reylian Prealdream Anareka
    L200180087
                                              109
                                                                                                                     Solo
                                                          Aprinta Sewelastami
    L200180088
                                              108
                                                                                                                     Sragen
 10 rows in set (0.049 sec)
```

Tabel dosen

```
MariaDB [tugasm4]> INSERT INTO dosen(nip_dosen, nama_dosen) VALUES
     iaDB [tugasm4]> INSERT INTO dosen(nip_dosen, nama_dosen) \
-> ('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
MariaDB [tugasm4]> INSERT INTO matakuliah(kode_mk, kode_ruangFk
-> ('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
   IF104
                                                                    109 | Pemrograman Web Statis
                                        102
                                                                    104
                                                                               Sistem Digital
    IF201
                                        407
                                                                    102
                                                                               Sistem Informasi
                                        410
    IF203
                                                                               Matematika Diskret
                                                                    105
    IF302
                                        408
                                                                               Komunikasi Data
    TF307
                                        410
                                                                    106
                                                                               Algoritma dan Struktur Data
                                                                    101
    TF401
                                        407
                                                                               Sistem Basis Data
                                                                                                                                                    4
    IF402
                                        410
                                                                    107
                                                                   103 | Praktikum Jaringan Komputer
110 | Probabilitas dan Statistik
                                                                               Praktikum Jaringan Komputer
    IF408
    IF505
                                        408
  l0 rows in set (0.000 sec)
```

• Tabel ruangkelas

```
MariaDB [tugasm4]> INSERT INTO ruangkelas(kode_ruang, nama_ruang) VALUES
     iaDB [tugasm4]> INSERT INT
-> (0407, 'J0407'),
-> (0408, 'J0408'),
-> (0410, 'J0410'),
-> (0311, 'LABRPL'),
-> (0312, 'LABJAR'),
-> (0313, 'LABSI'),
-> (0403, 'J0403'),
-> (0305, 'J0305'),
-> (0101, 'JSEM Barat'),
-> (0102, 'JSEM Timur');
rv OK. 10 rows affected (3
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 | 30407
              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
       iaDB [tugasm4]> INSERT INTO m
-> ('L200180065', 'IF104'),
-> ('L200180088', 'IF201'),
-> ('L200180079', 'IF302'),
-> ('L200180058', 'IF307'),
-> ('L200180069', 'IF408'),
-> ('L200180074', 'IF402'),
-> ('L200180078', 'IF401'),
-> ('L200180084', 'IF203'),
-> ('L200180087', 'IF505'),
-> ('L200180065', 'IF203'),
-> ('L200180065', 'IF408'),
-> ('L200180079', 'IF402'),
        -> ('L200180079', 'IF402'),
-> ('L200180074', 'IF408'),
       -> ('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
    1200180058 | IF408
    L200180065 | IF104
    L200180065
                                  IF203
    L200180066
                              | IF102
    L200180066 | IF505
```

```
L200180069 | IF307
 L200180069
             IF408
 L200180074
             IF402
 L200180074
             IF408
 1200180078
             | IF104
 L200180078
              IF401
 L200180079
             IF302
 L200180079
             IF402
 L200180084
              IF203
 L200180084
             | IF302
 L200180087
             | IF102
             | IF505
 L200180087
 L200180088
              IF201
 L200180088 | IF402
20 rows in set (0.001 sec)
```