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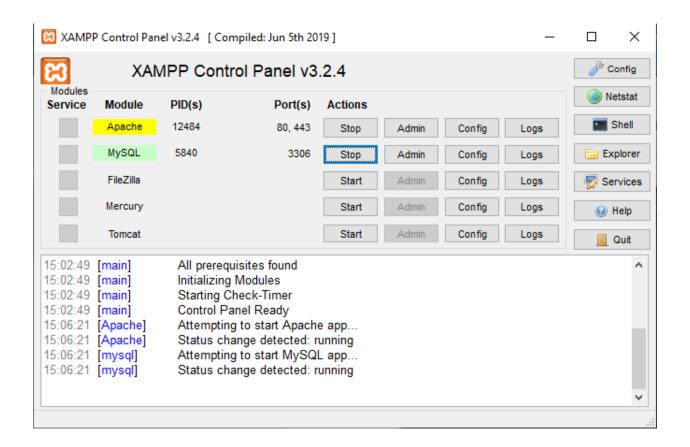
NIM : L200180058

Kelas : C

## **KEGIATAN 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 perbankan'. Sehingga akan muncul pemberitahuan 'database changed'.

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

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

```
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES
-> (1, "Sutopo", "Jl. Jendral Sudirman 12"),
-> (2, "Maryati", "Jl. MT. Haryono 31"),
-> (3, "Suparman", "Jl. Hasanudin 81"),
-> (4, "Kartika Padamasari", "Jl. Manggis 15"),
-> (5, "Budi Eko Prayogo", "Jl. Kantil 30"),
-> (6, "Satria Eka Jaya", "Jl. Slamet Riyadi 45"),
-> (7, "Indri Hapsari", "Jl. Sutoyo 5"),
-> (8, "Sari Murti", "Jl. Pangandaran 11"),
-> (9, "Canka Lokananta", "Jl. Tidar 86"),
-> (10, "Budi Murtono", "Jl. Merak 22");

Query OK, 10 rows affected (0.708 sec)

Records: 10 Duplicates: 0 Warnings: 0
```

Tabel cabang\_bank

```
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES
-> ("BRUS", "Bank Rut Unit Surakarta", "Jl. Slamet Riyadi 18"),
-> ("BRUM", "Bank Rut Unit Magelang", "Jl. P. Tendean 63"),
-> ("BRUB", "Bank Rut Unit Boyolali", "Jl. Ahmad Yani 45"),
-> ("BRUK", "Bank Rut Unit Klaten", "Jl. Suparman 23"),
-> ("BRUY", "Bank Rut Unit Yogyakarta", "Jl. Anggrek 21"),
-> ("BRUW", "Bank Rut Unit Wonogiri", "Jl. Untung Suropati 12");
Query OK, 6 rows affected (0.615 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

### • Tabel rekening

```
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES
-> (101, "BRUS", "1111", 500000),
-> (102, "BRUS", "2222", 350000),
-> (103, "BRUS", "3333", 750000),
-> (104, "BRUM", "4444", 900000),
-> (105, "BRUM", "5555", 2000000),
-> (106, "BRUS", "6666", 3000000),
-> (107, "BRUS", "7777", 1000000),
-> (108, "BRUB", "0000", 5000000),
-> (109, "BRUB", "9999", 0),
-> (110, "BRUY", "1234", 550000),
-> (111, "BRUK", "4321", 150000),
-> (112, "BRUK", "0123", 300000),
-> (113, "BRUY", "8888", 255000);
Query OK, 13 rows affected (0.111 sec)
Records: 13 Duplicates: 0 Warnings: 0
```

#### Tabel nasabah\_has\_rekening

```
MariaDB [perbankan]> INSERT INTO nasabah has rekening(id nasabahFK, no rekeningFK) VALUES
    -> (1, 104),
-> (2, 103),
    -> (3, 105),
    -> (3, 106),
    -> (4, 101),
    -> (4, 107),
    -> (5, 102),
    -> (5, 107),
    -> (6, 109),
    -> (7, 109),
    -> (8, 111),
    -> (9, 110),
    -> (10, 113),
    -> (8, 112),
    -> (10, 108);
Query OK, 15 rows affected (0.732 sec)
Records: 15 Duplicates: 0 Warnings: 0
```

## • Tabel transaksi

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK,
 jenis_transaksi, tanggal, jumlah) VALUES
-> (1, 105, 3, 'debit', 2009-11-10, 50000),
-> (2, 103, 2, 'debit', 2009-11-10, 40000),
-> (3, 101, 4, 'kredit', 2009-11-12, 20000),
-> (4, 106, 3, 'debit', 2009-11-13, 50000),
-> (5, 107, 5, 'kredit', 2009-11-13, 30000),
-> (6, 104, 1, 'kredit', 2009-11-15, 200000),
-> (7, 110, 9, 'kredit', 2009-11-15, 150000)
                                                'kredit', 2009-11-15, 150000),
          -> (7, 110, 9,
          -> (8, 102, 5, 'debit', 2009-11-16, 20000),
-> (9, 105, 3, 'kredit', 2009-11-18, 50000),
          -> (10, 107, 4, 'debit', 2009-11-19, 100000),
          -> (11, 103, 2, 'debit', 2009-11-19, 100000),
               (12, 104, 1, 'debit', 2009-11-19, 50000),
(13, 107, 4, 'kredit', 2009-11-20, 200000),
         -> (13, 107, 4, 'kredit', 2009-11-20, 200000),
-> (14, 105, 3, 'debit', 2009-11-21, 40000),
-> (15, 104, 1, 'kredit', 2009-11-22, 100000),
-> (16, 101, 4, 'kredit', 2009-11-22, 20000),
-> (17, 103, 2, 'debit', 2009-11-22, 50000),
-> (18, 102, 5, 'debit', 2009-11-25, 50000),
-> (19, 108, 10, 'debit', 2009-11-26, 100000),
-> (20, 106, 3, 'kredit', 2009-11-28, 200000),
-> (21, 103, 2, 'kredit', 2009-11-28, 100000),
          -> (22, 105, 3, 'kredit', 2009-11-28, 100000),
          -> (23, 102, 5, 'debit', 2009-11-30, 20000),
          -> (24, 104, 1, 'debit', 2009-12-1, 50000),
                                                 'debit', 2009-12-2, 40000),
          -> (25, 103, 2,
-> (25, 103, 2, 'debit', 2009-12-2, 40000),
-> (26, 101, 4, 'debit', 2009-12-4, 50000),
-> (27, 103, 2, 'kredit', 2009-12-5, 100000),
-> (28, 102, 5, 'kredit', 2009-12-5, 200000),
-> (29, 109, 7, 'debit', 2009-12-5, 100000),
-> (30, 110, 9, 'debit', 2009-12-6, 20000);

Query OK, 30 rows affected, 30 warnings (0.541 sec)
Records: 30 Duplicates: 0 Warnings: 30
```

- 6. Melakukan update untuk kasus-kasus berikut :
  - a. Nasabah dengan nama "Indri Hapsari" pindah alamat ke "Jalan Slamet Riyadi No. 34"

b. Cabang dengan kode "BRUW" pindah ke alamat "Jalan A. Yani No. 23"

## 7. Melakukan penghapusan untuk kasus-kasus berikut :

a. Nasabah dengan id "7" menutup rekeningnya.

```
MariaDB [perbankan]> select * from nasabah;
   -----
 id nasabah | nama nasabah
                                | alamat nasabah
          1 | Sutopo
                                  Jl. Jendral Sudirman 12
          2 | Maryati
                                  Jl. MT. Haryono 31
          3 | Suparman
                                  Jl. Hasanudin 81
          4 | Kartika Padamasari | Jl. Manggis 15
                                | Jl. Kantil 30
          5 | Budi Eko Prayogo
                                  Jl. Slamet Riyadi 45
            Satria Eka Jaya
          6
            Indri Hapsari
                                 Jalan Slamet Riyadi No. 34
                                | Jl. Pangandaran 11
         8
            | Sari Murti
            | Canka Lokananta
                                | Jl. Tidar 86
         9
         10 | Budi Murtono
                                Jl. Merak 22
10 rows in set (0.001 sec)
MariaDB [perbankan]> delete from nasabah
   -> where id_nasabah = 7;
Query OK, 1 row affected (0.177 sec)
MariaDB [perbankan]> select * from nasabah;
 id_nasabah | nama_nasabah
                                | alamat nasabah
          1 | Sutopo
                                  Jl. Jendral Sudirman 12
          2 | Maryati
                                  Jl. MT. Haryono 31
                                  Jl. Hasanudin 81
          3
            Suparman
            | Kartika Padamasari
                                 Jl. Manggis 15
          4
          5 | Budi Eko Prayogo
                                 Jl. Kantil 30
            Satria Eka Jaya
          6
                                  Jl. Slamet Riyadi 45
                                  Jl. Pangandaran 11
            | Sari Murti
         8
         9 | Canka Lokananta
                                | Jl. Tidar 86
         10 | Budi Murtono
                                | Jl. Merak 22
 rows in set (0.001 sec)
```

b. Cabang dengan nama\_cabang "Bank Rut Unit Magelang" menutup kantornya.

```
MariaDB [perbankan]> select * from cabang_bank;
 kode_cabang | nama_cabang
                                         alamat cabang
               Bank Rut Unit Boyolali
                                          Jl. Ahmad Yani 45
 BRUB
 BRUK
               Bank Rut Unit Klaten
                                         Jl. Suparman 23
             | Bank Rut Unit Magelang
                                        | Jl. P. Tendean 63
 BRUM
               Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18
 BRUS
 BRUW
               Bank Rut Unit Wonogiri
                                        Jalan A. Yani No. 23
 BRUY
             | Bank Rut Unit Yogyakarta | Jl. Anggrek 21
6 rows in set (0.001 sec)
MariaDB [perbankan]> delete from cabang_bank
   -> where nama_cabang = "Bank Rut Unit Magelang";
Query OK, 1 row affected (0.213 sec)
MariaDB [perbankan]> select * from cabang_bank;
 kode_cabang | nama_cabang
                                          alamat_cabang
                                         Jl. Ahmad Yani 45
 BRUB
               Bank Rut Unit Boyolali
 BRUK
               Bank Rut Unit Klaten
                                         Jl. Suparman 23
 BRUS
              | Bank Rut Unit Surakarta
                                        | Jl. Slamet Riyadi 18
             | Bank Rut Unit Wonogiri | Jalan A. Yani No. 23
 BRUW
             | Bank Rut Unit Yogyakarta | Jl. Anggrek 21
 BRUY
 rows in set (0.001 sec)
```