Nama: Bayu Aji Laksono

NIM : L200180089

Kelas: D

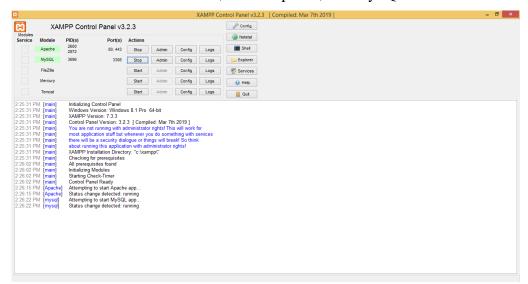
## PRAKTIKUM SISTEM BASIS DATA

## **MODUL 5**

# DATA MANIPULATION LANGUAGE (DML)

## Langkah - Langkah Praktikum:

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



2. Melakukan root ke MySQL kemudian pilih database perbankan

3. Memasukkan data – data ke dalam database perbankan

#### Tabel nasabah

```
MariaDB [(none)]> use perbankan
Database changed
MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(1,'Sutopo','J1.Jendral Sudirman 12');
Query OK, 1 row affected (0.23 sec)

MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(2,'Maryati','J1. MT. Haryono 31');
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(3,'Suparman','J1. Hasanudin 81');
Query OK, 1 row affected (0.06 sec)

MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(4,'Kartika Padmasari','J1. Manggis 15');
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(5,'Budi Eko Prayogo','J1. Kantil 30');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(6,'Satria Eka Jaya','J1. Slamet Riyadi 45');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(7,'Indri Hapsari','J1. Sutoyo 5');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(8,'Sari Murti','J1. Pangandaran 11');
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(9,'Canka Lokananta','J1. Tidar 86');
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(10,'Budi Murtono','J1. Merak 22');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> INSERI INTO nasabah(id_nasabah, nama_nasabah, alamat_nasaba
h) UALUES(10,'Budi Murtono','J1. Merak 22');
Query OK, 1 row affected (0.10 sec)
```

#### • 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');
Query OK, 1 row affected (0.12 sec)

MariaDB [perbankan] INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUM','Bank Rut Unit Magelang','Jl. P. Tendean 63');
Query OK, 1 row affected (0.10 sec)

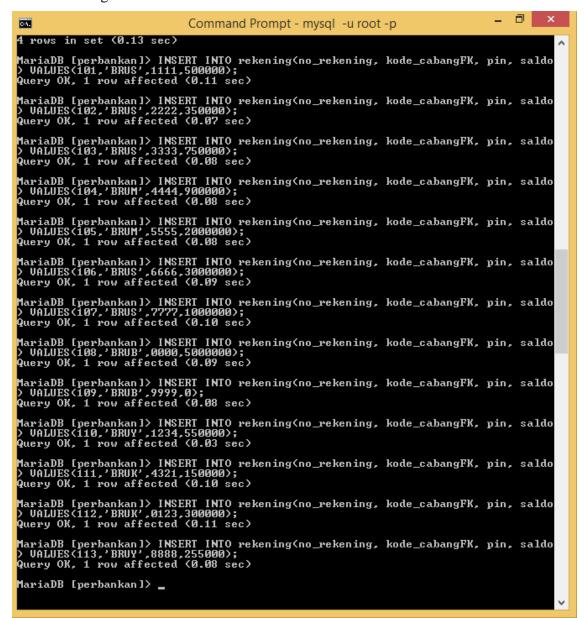
MariaDB [perbankan] INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUB','Bank Rut Unit Boyolali','Jl. Ahmad Yani 45');
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan] INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUK','Bank Rut Unit Klaten','Jl. Suparman 23');
Query OK, 1 row affected (0.09 sec)

MariaDB [perbankan] INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUY','Bank Rut Unit Yogyakarta','Jl. Anggrek 21');
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan] INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUW','Bank Rut Unit Wonogiri','Jl. Untung Suropati 12');
Query OK, 1 row affected (0.09 sec)
```

#### Tabel rekening



Tabel nasabah\_has\_rekening

```
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                                          Command Prompt - mysql -u root -p
K) VALUES(2,103);
Query OK, 1 row affected (0.09 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K> VALUES(3,105);
Query OK, 1 row affected (0.12 sec)
MariaDB [perbankan]>
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K> VALUES(3,106);
Query OK, 1 row affected (0.09 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K> VALUES(4,101);
Query OK, 1 row affected (0.03 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K> VALUES(4,107);
Query OK, 1 row affected (0.08 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening<id_nasabahFK, no_rekeningF
K> VALUES<5,102>;
Query OK, 1 row affected (0.10 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K> VALUES(5,107);
Query OK, 1 row affected (2.10 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening<id_nasabahFK, no_rekeningF
K> VALUES<6,109>;
Query OK, 1 row affected <0.13 sec>
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening<id_nasabahFK, no_rekeningF
K> VALUES<7,109>;
Query OK, 1 row affected (0.10 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening<id_nasabahFK, no_rekeningF
K> VALUES<8,111>;
Query OK, 1 row affected <0.22 sec>
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K> VALUES(9,110);
Query OK, 1 row affected (0.03 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening<id_nasabahFK, no_rekeningF
K> VALUES(10,113>;
Query OK, 1 row affected (0.04 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening<id_nasabahFK, no_rekeningF
K> VALUES<8,112>;
Query OK, 1 row affected <0.10 sec>
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningF
K> VALUES(10,108);
Query OK, 1 row affected (0.09 sec)
MariaDB [perbankan]>
```

\_ 🗇 × Command Prompt - mysgl -u root -p Calv MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah) VALUES(11,103,2,'debit',2009-11-19,10000 0); Query OK, 1 row affected, 1 warning (0.13 sec) MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah) VALUES(12,104,1,'debit',2009-11-19,50000 Query OK, 1 row affected, 1 warning (0.09 sec) MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah> VALUES(13,107,4,'kredit',2009-11-20,2000 00); Query OK, 1 row affected, 1 warning (0.07 sec) MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah> VALUES(14,105,3,'debit',2009-11-21,40000 Query OK, 1 row affected, 1 warning (0.18 sec) MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah> VALUES(15,104,1,'kredit',2009-11-22,1000 00); Query OK, 1 row affected, 1 warning (0.10 sec) MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah) VALUES(16,101,4,'kredit',2009-11-22,2000 0); Query OK, 1 row affected, 1 warning (0.09 sec) MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah) VALUES(17,103,2,'debit',2009-11-22,50000 Query OK, 1 row affected, 1 warning (0.15 sec) MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah> VALUES(18,102,5,'debit',2009-11-25,50000 >; Query OK, 1 row affected, 1 warning (0.10 sec> MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah> VALUES(19,108,10,'debit',2009-11-26,1000 ØØ); Query OK, 1 row affected, 1 warning (0.12 sec) MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah> VALUES(20,106,3,'kredit',2009-11-27,5000 Ø>;

Query OK, 1 row affected, 1 warning (0.09 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab ahFK, jenis\_transaksi, tanggal, jumlah> VALUES(21,103,2,'kredit',2009-11-28,2000 00);

Query OK, 1 row affected, 1 warning (0.15 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no\_transaksi, no\_rekeningFK, id\_nasab

```
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Cata
                                         Command Prompt - mysgl -u root -p
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(20,106,3,'kredit',2009-11-27,5000
0);
Query OK, 1 row affected, 1 warning (0.09 sec)
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah> VALUES(21,103,2,'kredit',2009-11-28,2000
Query OK, 1 row affected, 1 warning (0.15 sec)
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah> VALUES(22,105,3,'kredit',2009-11-28,1000
00);
Query OK, 1 row affected, 1 warning (0.12 sec)
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(23,102,5,'debit',2009-11-30,20000
Query OK, 1 row affected, 1 warning (0.10 sec)
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(24,104,1,'debit',2009-12-1,20000)
;
Query OK, 1 row affected, 1 warning (0.10 sec)
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(25,103,2,'debit',2009-12-2,40000)
Query OK, 1 row affected, 1 warning (0.11 sec)
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(26,101,4,'debit',2009-12-4,50000)
Query OK, 1 row affected, 1 warning (0.80 sec)
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah> VALUES(27,103,2,'kredit',2009-12-5,10000
0);
Query OK, 1 row affected, 1 warning (0.17 sec)
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(28,102,5,'kredit',2009-12-5,20000
0);
Query OK, 1 row affected, 1 warning (0.06 sec)
MariaDB [perbankan]> INSERI INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah> VALUES(29,109,7,'debit',2009-12-5,100000
Query OK, 1 row affected, 1 warning (0.08 sec)
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasab
ahFK, jenis_transaksi, tanggal, jumlah) VALUES(30,110,9,'debit',2009-12-6,20000)
Query OK, 1 row affected, 1 warning (0.04 sec)
MariaDB [perbankan]>
```

- 4. Melakukan update untuk kasus kasus berikut ini
  - a. Nasabah dengan nama "Indri Hapsari" pindah alamat ke "Jalan Slamet Riyadi no. 34"

```
MariaDB [perbankan]> UPDATE nasabah SET alamat_nasabah = 'Jalan Slamet Riyadi No
. 34' WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.32 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

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

```
MariaDB [perbankan]> UPDATE cabang_bank SET alamat_cabang = 'Jalan A. Yani No. 2
3' WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.20 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [perbankan]>
```

- 5. Melakukan penghapusan untuk kasus kasus berikut
  - a. Nasabah dengan id "7" menutup rekening

```
MariaDB [perbankan]> DELETE FROM nasabah WHERE id_nasabah = 7;
Query OK, 1 row affected (0.18 sec)

MariaDB [perbankan]>
```

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

```
MariaDB [perbankan]> DELETE FROM cabang_bank WHERE nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.12 sec)
MariaDB [perbankan]>
```