LAPORAN PRAKTIKUM BASIS DATA

MODUL 5

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DML (DATA MANIPULATION LANGUAGE)

Seperti biasa. Langkah pertama jalankan xampp, lalu start apache dan mysql .

Kemudian CMD kemudian masuk ke ROOT, kemudian kita gunakan databas eyang sudah dibuat di modul sebelumnya, dengan cara "use Perbankan".

Kemudian masukkan data ke dalam tabel masing-masing.

Table Nasabah & Table cabang_bank


```
Administrator: C:\WINDOWS\system32\cmd.exe - mysql  -u root

Microsoft Windows [Version 10.0.17134.648]
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C:\Users\hafid>cd C:\

C:\>cd 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 155
Server version: 10.1.30-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use Perbankan
Database changed
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 Padmasari', '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 (0.08 sec)
Records: 10  Duplicates: 0  Warnings: 0

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 (0.06 sec)
Records: 6  Duplicates: 0  Warnings: 0
```

Table 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 (0.09 sec)
Records: 13  Duplicates: 0  Warnings: 0
```

Table 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 (0.09 sec)
Records: 15  Duplicates: 0  Warnings: 0
```

Table 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),
    -> (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),
    -> (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', 2009-11-27, 50000),
    -> (21, 103, 2, 'kredit', 2009-11-28, 200000),
    -> (22, 105, 3, 'kredit', 2009-11-28, 100000),
    -> (23, 102, 5, 'debit', 2009-11-30, 20000),
    -> (24, 104, 1, 'debit', 2009-12-1, 50000),
    -> (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 (0.11 sec)
Records: 30  Duplicates: 0  Warnings: 30

MariaDB [Perbankan]>
MariaDB [Perbankan]>
```

Kemudian ketika semua table sudah diisi oleh data, lalu mencoba untuk menerapkan ilmu DML lain, yaitu mengubah data yang ada di table.

```
MariaDB [Perbankan]>
MariaDB [Perbankan]> UPDATE nasabah
    -> SET alamat_nasabah = 'Jalan Slamet Riyadi No. 34'
    -> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [Perbankan]> UPDATE cabang_bank
    -> SET alamat_cabang = 'Jalan A. Yani No. 23'
    -> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.04 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [Perbankan]> DELETE FROM nasabah
    -> WHERE id_nasabah = 7;
Query OK, 1 row affected (0.06 sec)

MariaDB [Perbankan]> DELETE FROM nasabah
    -> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 0 rows affected (0.00 sec)

MariaDB [Perbankan]> DELETE FROM nasabah
    -> WHERE alamat_nasabah = 'Jalan Slamet Riyadi No. 34';
Query OK, 0 rows affected (0.00 sec)

MariaDB [Perbankan]>
```

Hasilnya, data yang ada di database berubah

	kode_cabang	nama_cabang	alamat_cabang
☐ 🖉 Ubah ⯀ Salin ⊖ Hapus	BRUB	Bank Rut Unit Boyolali	Jl. Ahmad Yani 45
☐ 🖉 Ubah ⯀ Salin ⊖ Hapus	BRUK	Bank Rut Unit Klaten	Jl. Suparman 23
☐ 🖉 Ubah ⯀ Salin ⊖ Hapus	BRUM	Bank Rut Unit Magelang	Jl. P. Tendean 63
☐ 🖉 Ubah ⯀ Salin ⊖ Hapus	BRUS	Bank Rut Unit Surakarta	Jl. Slamet Riyadi 18
☐ 🖉 Ubah ⯀ Salin ⊖ Hapus	BRUW	Bank Rut Unit Wonogiri	Jalan A. Yani No. 23
☐ 🖉 Ubah ⯀ Salin ⊖ Hapus	BRUY	Bank Rut Unit Yogyakarta	Jl. Anggrek 21

+ Opsi

		id_nasabah	nama_nasabah	alamat_nasabah
☐	🖉 Ubah 🖹 Salin ⊖ Hapus	1	Sutopo	Jl. Jendral Sudirman 12
☐	🖉 Ubah 🖹 Salin ⊖ Hapus	2	Maryati	Jl. MT. Haryono 31
☐	🖉 Ubah 🖹 Salin ⊖ Hapus	3	Suparman	Jl. Hasanudin 81
☐	🖉 Ubah 🖹 Salin ⊖ Hapus	4	Kartika Padmasari	Jl. Manggis 15
☐	🖉 Ubah 🖹 Salin ⊖ Hapus	5	Budi Eko Prayogo	Jl. Kantil 30
☐	🖉 Ubah 🖹 Salin ⊖ Hapus	6	Satria Eka Jaya	Jl. Slamet Riyadi 45
☐	🖉 Ubah 🖹 Salin ⊖ Hapus	8	Sari Murti	Jl. Pangandaran 11
☐	🖉 Ubah 🖹 Salin ⊖ Hapus	9	Canka Lokananta	Jl. Tidar 86
☐	🖉 Ubah 🖹 Salin ⊖ Hapus	10	Budi Murtono	Jl. Merak 22

↰ ☐ Check all   Dengan pilihan: 🖉 Ubah 🖹 Salin ⊖ Hapus 📑 Ekspor