Nama   : Cecylia Ivanka Hermanita
NIM   : L200180210
Kelas : H Praktikum Sistem Basis Data

MODUL 5
Data Manipulation Language (DML)

- Data nasabah

```
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
    -> VALUES(1, 'Sutopo', 'Jl. Jenderal 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 (0.087 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

- Data 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 (0.085 sec)
Records: 6  Duplicates: 0  Warnings: 0
```

- Data 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', DEFAULT),
    -> (110, 'BRUY','DEFAULT', 550000),
    -> (111, 'BRUK','4321', 150000),
    -> (112, 'BRUK','0123', 300000),
    -> (113, 'BRUY','8888', 255000);
Query OK, 13 rows affected (0.083 sec)
Records: 13  Duplicates: 0  Warnings: 0
```

- Data 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 (0.086 sec)
Records: 15  Duplicates: 0  Warnings: 0
```

- Data transaksi

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah)
    -> VALUES(NULL, 105, 3, 'debit', DEFAULT, 50000),
    -> (NULL, 103, 2, 'debit', DEFAULT, 40000),
    -> (NULL, 101, 4, 'kredit', DEFAULT, 20000),
    -> (NULL, 106, 3, 'debit', DEFAULT, 50000),
    -> (NULL, 107, 5, 'kredit', DEFAULT, 30000),
    -> (NULL, 104, 1, 'kredit', DEFAULT, 200000),
    -> (NULL, 110, 9, 'kredit', DEFAULT, 150000),
    -> (NULL, 102, 5, 'debit', DEFAULT, 20000),
    -> (NULL, 105, 3, 'kredit', DEFAULT, 50000),
    -> (NULL, 107, 4, 'debit', DEFAULT, 100000),
    -> (NULL, 103, 2, 'debit', DEFAULT, 100000),
    -> (NULL, 104, 1, 'debit', DEFAULT, 50000),
    -> (NULL, 107, 4, 'kredit', DEFAULT, 200000),
    -> (NULL, 105, 3, 'debit', DEFAULT, 40000),
    -> (NULL, 104, 1, 'kredit', DEFAULT, 100000),
    -> (NULL, 101, 4, 'kredit', DEFAULT, 20000),
    -> (NULL, 103, 2, 'debit', DEFAULT, 50000),
    -> (NULL, 102, 5, 'debit', DEFAULT, 50000),
    -> (NULL, 108, 10, 'debit', DEFAULT, 100000),
    -> (NULL, 106, 3, 'kredit', DEFAULT, 50000),
    -> (NULL, 103, 2, 'kredit', DEFAULT, 200000),
    -> (NULL, 105, 3, 'kredit', DEFAULT, 100000),
    -> (NULL, 102, 5, 'debit', DEFAULT, 20000),
    -> (NULL, 104, 1, 'debit', DEFAULT, 50000),
    -> (NULL, 103, 2, 'debit', DEFAULT, 40000),
    -> (NULL, 101, 4, 'debit', DEFAULT, 50000),
    -> (NULL, 103, 2, 'kredit', DEFAULT, 100000),
    -> (NULL, 102, 5, 'kredit', DEFAULT, 200000),
    -> (NULL, 109, 7, 'debit', DEFAULT, 100000),
    -> (NULL, 110, 9, 'debit', DEFAULT, 20000);
Query OK, 30 rows affected (0.105 sec)
Records: 30  Duplicates: 0  Warnings: 0
```

- Update Kasus

```
MariaDB [perbankan]> UPDATE nasabah
    -> SET alamat_nasabah = 'Jl. Slamet Riyadi 34'
    -> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.065 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perbankan]> UPDATE cabang_bank
    -> SET alamat_cabang = 'Jl. A.Yani 23'
    -> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.097 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

- Penghapusan Kasus

```
MariaDB [perbankan]> DELETE FROM nasabah
    -> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.069 sec)

MariaDB [perbankan]> DELETE FROM cabang_bank
    -> WHERE nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.052 sec)
```

TUGAS MODUL 5

Soal :

Masukkan beberapa record ke setiap table dalam database yang telah anda buat pada modul 4. Print out hasil implementasi rancangan tersebut dan Analisa hasilnya. (Masing-masing 10 record untuk table master dan 20 record untuk table transaksi).

- Table nasabah (10 record)

```
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
    -> VALUES(11, 'Cecylia', 'Jl. Menco 04'),
    -> (12, 'Ivanka', 'Jl. Nanas 12'),
    -> (13, 'Fakhar', 'Jl. Cempedak 2'),
    -> (14, 'Riska', 'Jl. Elang 3'),
    -> (15, 'Baity', 'Jl. Cawas 25'),
    -> (16, 'Yuni', 'Jl. HM.Arsyad 16'),
    -> (17, 'Shilvia', 'Jl. Giro 08'),
    -> (18, 'Ajeng Meidita', 'Jl. Garuda Mas 15'),
    -> (19, 'Supratman', 'Jl. Kapten Mulyono 24'),
    -> (20, 'Jumiati', 'Jl. Rose 03');
Query OK, 10 rows affected (0.072 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

- Table cabang_bank (10 record)

```
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang)
    -> VALUES('BRUP', 'Bank Rut Unit Ponorogo', 'Jl. Dr.Sutomo 12'),
    -> ('BRUC', 'Bank Rut Unit Caruban', 'Jl. Ahmad Yani 24'),
    -> ('BRUG', 'Bank Rut Unit Gresik', 'Jl. Gresik 15'),
    -> ('BRUJ', 'Bank Rut Unit Jember', 'Jl. Jember 17'),
    -> ('BRUN', 'Bank Rut Unit Ngawi', 'Jl. Ngawi 20'),
    -> ('BRUT', 'Bank Rut Unit Tulungagung', 'Jl. Agung 22'),
    -> ('BRUL', 'Bank Rut Unit Lampung', 'Jl. Kalianda 11'),
    -> ('BRUA', 'Bank Rut Unit Ambon', 'Jl. MT. Haryono 18'),
    -> ('BRUD', 'Bank Rut Unit Dumai', 'Jl. Pelita 21'),
    -> ('BRUKa', 'Bank Rut Unit Kalimantan', 'Jl. Tjilik Riwut 30');
Query OK, 10 rows affected (0.064 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

- Table rekening (10 record)

```
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo)
    -> VALUES(114, 'BRUN', '1356', 100000),
    -> (115, 'BRUP', '2457', 200000),
    -> (116, 'BRUC', '3678', 300000),
    -> (117, 'BRUG', '7899', 400000),
    -> (118, 'BRUJ', '1303', 500000),
    -> (119, 'BRUT', '1347', 600000),
    -> (120, 'BRUL', '1212', 750000),
    -> (121, 'BRUA', '1313', 550000),
    -> (122, 'BRUD', '1414', 80000),
    -> (123, 'BRUKa', '1515', 900000);
Query OK, 10 rows affected (0.045 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

- Table nasabah_has_rekening (10 record)

```
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
    -> VALUES(11, 101),
    -> (12, 102),
    -> (13, 103),
    -> (14, 104),
    -> (15, 105),
    -> (16, 106),
    -> (17, 107),
    -> (18, 108),
    -> (19, 109),
    -> (20, 110);
Query OK, 10 rows affected (0.050 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

- Table transaksi (20 record)

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah)
    -> VALUES(NULL, 111, 1, 'debit', DEFAULT, 50000),
    -> (NULL, 112, 2, 'debit', DEFAULT, 60000),
    -> (NULL, 113, 3, 'kredit', DEFAULT, 800000),
    -> (NULL, 114, 4, 'kredit', DEFAULT, 700000),
    -> (NULL, 115, 5, 'debit', DEFAULT, 55000),
    -> (NULL, 116, 6, 'debit', DEFAULT, 80000),
    -> (NULL, 117, 7, 'debit', DEFAULT, 60000),
    -> (NULL, 117, 8, 'kredit', DEFAULT, 500000),
    -> (NULL, 112, 9, 'debit', DEFAULT, 90000),
    -> (NULL, 116, 2, 'kredit', DEFAULT, 100000),
    -> (NULL, 114, 1, 'kredit', DEFAULT, 300000),
    -> (NULL, 112, 1, 'kredit', DEFAULT, 750000),
    -> (NULL, 112, 8, 'debit', DEFAULT, 50000),
    -> (NULL, 111, 9, 'debit', DEFAULT, 80000),
    -> (NULL, 113, 7, 'kredit', DEFAULT, 200000),
    -> (NULL, 117, 3, 'kredit', DEFAULT, 400000),
    -> (NULL, 118, 5, 'kredit', DEFAULT, 850000),
    -> (NULL, 118, 7, 'debit', DEFAULT, 100000),
    -> (NULL, 112, 6, 'kredit', DEFAULT, 500000),
    -> (NULL, 116, 4, 'debit', DEFAULT, 90000);
Query OK, 20 rows affected (0.071 sec)
Records: 20  Duplicates: 0  Warnings: 0
```