Nama : Aisyah Goevara

NIM : L200180034

Kelas : B

Modul 5

Data Manipulation Language (DML)

```
MariaDB [(none)]> create database perbankan5;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use perbankan5;
Database changed
MariaDB [perbankan5]> CREATE TABLE nasabah(
    -> id_nasabah INTEGER PRIMARY KEY,
    -> nama_nasabah VARCHAR(45) NOT NULL,
    -> alamat_nasabah VARCHAR(255) NOT NULL
    -> );
Query OK, 0 rows affected (0.02 sec)

MariaDB [perbankan5]> CREATE TABLE cabang_bank(
    -> kode_cabang VARCHAR(20) PRIMARY KEY,
    -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
    -> alamat_cabang VARCHAR(255) NOT NULL
    -> );
Query OK, 0 rows affected (0.01 sec)

MariaDB [perbankan5]> CREATE TABLE rekening(
    -> no_rekening INTEGER PRIMARY KEY,
    -> kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cabang) ON DELETE CASCADE ON UPDATE CASCADE,
    -> pin VARCHAR(45) NOT NULL,
    -> saldo INTEGER DEFAULT 0 NOT NULL
    -> );
Query OK, 0 rows affected (0.01 sec)

MariaDB [perbankan5]> CREATE TABLE nasabah_has_rekening(
    -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE,
    -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE
    -> );
Query OK, 0 rows affected (0.01 sec)

MariaDB [perbankan5]> CREATE TABLE transaksi(
    -> no_transaksi SERIAL PRIMARY KEY,
    -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE,
    -> jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,
    -> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
    -> jumlah INTEGER NOT NULL CHECK (jumlah>=20000)
```

```
MariaDB [perbankan5]> CREATE TABLE transaksi(
    -> no_transaksi SERIAL PRIMARY KEY,
    -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE,
    -> jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,
    -> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
    -> jumlah INTEGER NOT NULL CHECK (jumlah>=20000)
    -> );
Query OK, 0 rows affected (0.01 sec)

MariaDB [perbankan5]> use perbankan5;
Database changed
MariaDB [perbankan5]> 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 (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

Memasukan input kedalam 5 tabel

```
MariaDB [perbankan5]> use perbankan5;
Database changed
MariaDB [perbankan5]> 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 (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankan5]> 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 (0.01 sec)
Records: 6  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankan5]> 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 (0.01 sec)
Records: 13  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankan5]> 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 (0.01 sec)
Records: 15  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankan5]> 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, 100, 9, 'kredit', '2009-11-15', 150000),
    -> (8, 102, 5, 'debit', '2009-11-16', 20000),
    -> (9, 105, 2, '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', '2009-11-20', 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 (0.01 sec)
Records: 30  Duplicates: 0  Warnings: 0
```

Hasil

```
MariaDB [perbankan5]> select * from nasabah;
+------------+-------------------+---------------------------+
| id_nasabah | nama_nasabah      | alamat_nasabah            |
+------------+-------------------+---------------------------+
|          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              |
+------------+-------------------+---------------------------+
10 rows in set (0.00 sec)
```

```
MariaDB [perbankan5]> select * from cabang_bank;
+-------------+-------------------------+--------------------------+
| kode_cabang | nama_cabang             | alamat_cabang            |
+-------------+-------------------------+--------------------------+
| BRUB        | Bank Rut Unit Boyolali   | Jl. Ahmad Yani 45        |
| BRUK        | Bank Rut Unit Klaten     | Jl. Suparman 23          |
| BRUM        | Bank Rut Unit Magelang   | Jl. P.Tendean 63         |
| BRUS        | Bank Rut Unit Surakarta  | Jl. Slamet Riyadi 18     |
| BRUW        | Bank Rut Unit Wonogiri   | Jl. Untung Suropati 12   |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21           |
+-------------+-------------------------+--------------------------+
6 rows in set (0.00 sec)
```

```
MariaDB [perbankan5]> select * from rekening;
+------------+-------------+------+---------+
| no_rekening | kode_cabangFK | pin | saldo  |
+------------+-------------+------+---------+
|         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        | 0    | 5000000 |
|         109 | BRUB        | 9999 |       0 |
|         110 | BRUY        | 1234 |  550000 |
|         111 | BRUK        | 4321 |  150000 |
|         112 | BRUK        | 123  |  300000 |
|         113 | BRUY        | 8888 |  255000 |
+------------+-------------+------+---------+
13 rows in set (0.00 sec)
```

```
MariaDB [perbankan5]> select * from nasabah_has_rekening;
+-------------+--------------+
| id_nasabahFK | no_rekeningFK |
+-------------+--------------+
|           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 |
+-------------+--------------+
15 rows in set (0.00 sec)
```

```
MariaDB [perbankan5]> select * from transaksi;
+-------------+--------------+-------------+----------------+---------------------+--------+
| no_transaksi | no_rekeningFK | id_nasabahFK | jenis_transaksi | tanggal             | jumlah |
+-------------+--------------+-------------+----------------+---------------------+--------+
|           1 |          105 |           3 | debit          | 2009-11-10 00:00:00 |  50000 |
|           2 |          103 |           2 | debit          | 2009-11-10 00:00:00 |  40000 |
|           3 |          101 |           4 | kredit         | 2009-11-12 00:00:00 |  20000 |
|           4 |          106 |           3 | debit          | 2009-11-13 00:00:00 |  50000 |
|           5 |          107 |           5 | kredit         | 2009-11-13 00:00:00 |  30000 |
|           6 |          104 |           1 | kredit         | 2009-11-15 00:00:00 | 200000 |
|           7 |          100 |           9 | kredit         | 2009-11-15 00:00:00 | 150000 |
|           8 |          102 |           5 | debit          | 2009-11-16 00:00:00 |  20000 |
|           9 |          105 |           2 | kredit         | 2009-11-18 00:00:00 |  50000 |
|          10 |          107 |           4 | debit          | 2009-11-19 00:00:00 | 100000 |
|          11 |          103 |           2 | debit          | 2009-11-19 00:00:00 | 100000 |
|          12 |          104 |           1 | debit          | 2009-11-20 00:00:00 |  50000 |
|          13 |          107 |           4 | kredit         | 2009-11-20 00:00:00 | 200000 |
|          14 |          105 |           3 | debit          | 2009-11-21 00:00:00 |  40000 |
|          15 |          104 |           1 | kredit         | 2009-11-22 00:00:00 | 100000 |
|          16 |          101 |           4 | kredit         | 2009-11-22 00:00:00 |  20000 |
|          17 |          103 |           2 | debit          | 2009-11-22 00:00:00 |  50000 |
|          18 |          102 |           5 | debit          | 2009-11-25 00:00:00 |  50000 |
|          19 |          108 |          10 | debit          | 2009-11-26 00:00:00 | 100000 |
|          20 |          106 |           3 | kredit         | 2009-11-27 00:00:00 |  50000 |
|          21 |          103 |           2 | kredit         | 2009-11-28 00:00:00 | 200000 |
|          22 |          105 |           3 | kredit         | 2009-11-28 00:00:00 | 100000 |
|          23 |          102 |           5 | debit          | 2009-11-30 00:00:00 |  20000 |
|          24 |          104 |           1 | debit          | 2009-12-01 00:00:00 |  50000 |
|          25 |          103 |           2 | debit          | 2009-12-02 00:00:00 |  40000 |
|          26 |          101 |           4 | debit          | 2009-12-04 00:00:00 |  50000 |
|          27 |          103 |           2 | kredit         | 2009-12-05 00:00:00 | 100000 |
|          28 |          102 |           5 | kredit         | 2009-12-05 00:00:00 | 200000 |
|          29 |          109 |           7 | debit          | 2009-12-05 00:00:00 | 100000 |
|          30 |          110 |           9 | debit          | 2009-12-06 00:00:00 |  20000 |
+-------------+--------------+-------------+----------------+---------------------+--------+
30 rows in set (0.00 sec)
```

Melakukan Update

6. a

```
mysql> 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 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              |
+------------+------------------+---------------------------+
10 rows in set (0.00 sec)

mysql> update nasabah
    -> set alamat_nasabah = 'Jl. Slamet Riyadi 34'
    -> where nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.23 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> 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 Padmasari | Jl. Manggis 15           |
|          5 | Budi Eko Prayogo | Jl. Kantil 30             |
|          6 | Satria Eka Jaya  | Jl. Slamet Riyadi 45      |
|          7 | Indri Hapsari    | Jl. Slamet Riyadi 34      |
|          8 | Sari Murti       | Jl. Pangandaran 11        |
|          9 | Canka Lokananta  | Jl. Tidar 86              |
|         10 | Budi Murtono     | Jl. Merak 22              |
+------------+------------------+---------------------------+
10 rows in set (0.00 sec)
```

b.

```
mysql> select * from cabang_bank;
+-------------+-------------------------+-------------------------+
| kode_cabang | nama_cabang             | alamat_cabang           |
+-------------+-------------------------+-------------------------+
| BRUB        | Bank Rut Unit Boyolali  | Jl. Ahmad Yani 45       |
| BRUK        | Bank Rut Unit Klaten    | Jl. Suparman 23         |
| BRUM        | Bank Rut Unit Magelang  | Jl. P. Tendean 63       |
| BRUS        | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18    |
| BRUW        | Bank Rut Unit Wonogiri  | Jl. Untung Suropati 12  |
| BRUY        | Bank Rut Unit Yogyakarta| Jl. Anggrek 21          |
+-------------+-------------------------+-------------------------+
6 rows in set (0.00 sec)

mysql> update cabang_bank
    -> set alamat_cabang = 'Jl. Ahmad Yani 23'
    -> where kode_cabang = 'BRUW';
Query OK, 1 row affected (0.09 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from cabang_bank;
+-------------+-------------------------+----------------------+
| kode_cabang | nama_cabang             | alamat_cabang        |
+-------------+-------------------------+----------------------+
| BRUB        | Bank Rut Unit Boyolali  | Jl. Ahmad Yani 45    |
| BRUK        | Bank Rut Unit Klaten    | Jl. Suparman 23      |
| BRUM        | Bank Rut Unit Magelang  | Jl. P. Tendean 63    |
| BRUS        | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW        | Bank Rut Unit Wonogiri  | Jl. Ahmad Yani 23    |
| BRUY        | Bank Rut Unit Yogyakarta| Jl. Anggrek 21       |
+-------------+-------------------------+----------------------+
6 rows in set (0.00 sec)
```

Melakukan delete

7. a

```
mysql> 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 Padmasari | Jl. Manggis 15        |
|          5 | Budi Eko Prayogo | Jl. Kantil 30          |
|          6 | Satria Eka Jaya  | Jl. Slamet Riyadi 45   |
|          7 | Indri Hapsari    | Jl. Slamet Riyadi 34   |
|          8 | Sari Murti       | Jl. Pangandaran 11     |
|          9 | Canka Lokananta  | Jl. Tidar 86           |
|         10 | Budi Murtono     | Jl. Merak 22           |
+------------+------------------+------------------------+
10 rows in set (0.00 sec)

mysql> delete from nasabah
    -> where id_nasabah = 7;
Query OK, 1 row affected (0.09 sec)

mysql> 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 Padmasari | Jl. Manggis 15        |
|          5 | Budi Eko Prayogo | Jl. Kantil 30          |
|          6 | Satria Eka Jaya  | Jl. Slamet Riyadi 45   |
|          8 | Sari Murti       | Jl. Pangandaran 11     |
|          9 | Canka Lokananta  | Jl. Tidar 86           |
|         10 | Budi Murtono     | Jl. Merak 22           |
+------------+------------------+------------------------+
9 rows in set (0.00 sec)
```

7. b

```
mysql> select * from cabang_bank;
+--------------+--------------------------+----------------------+
| kode_cabang  | nama_cabang              | alamat_cabang        |
+--------------+--------------------------+----------------------+
| BRUB         | Bank Rut Unit Boyolali   | Jl. Ahmad Yani 45    |
| BRUK         | Bank Rut Unit Klaten     | Jl. Suparman 23      |
| BRUM         | Bank Rut Unit Magelang   | Jl. P. Tendean 63    |
| BRUS         | Bank Rut Unit Surakarta  | Jl. Slamet Riyadi 18 |
| BRUW         | Bank Rut Unit Wonogiri   | Jl. Ahmad Yani 23    |
| BRUY         | Bank Rut Unit Yogyakarta | Jl. Anggrek 21       |
+--------------+--------------------------+----------------------+
6 rows in set (0.00 sec)

mysql> delete from cabang_bank
    -> where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.10 sec)

mysql> select * from cabang_bank;
+--------------+--------------------------+----------------------+
| kode_cabang  | nama_cabang              | alamat_cabang        |
+--------------+--------------------------+----------------------+
| BRUB         | Bank Rut Unit Boyolali   | Jl. Ahmad Yani 45    |
| BRUK         | Bank Rut Unit Klaten     | Jl. Suparman 23      |
| BRUS         | Bank Rut Unit Surakarta  | Jl. Slamet Riyadi 18 |
| BRUW         | Bank Rut Unit Wonogiri   | Jl. Ahmad Yani 23    |
| BRUY         | Bank Rut Unit Yogyakarta | Jl. Anggrek 21       |
+--------------+--------------------------+----------------------+
5 rows in set (0.00 sec)
```

Tugas

1. Tabel nasabah

```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah) values
    -> (11,"Amin","Jl. Bebek 12"),
    -> (12,"Amir","Jl. Ayam 77"),
    -> (13,"Apip","Jl. Bango 69"),
    -> (14,"Acil","Jl. Mop 5"),
    -> (15,"Ajeng","Jl. Gagang 3"),
    -> (16,"Ayu","Jl. Sudiro 1"),
    -> (17,"Abang","Jl. Murai 33"),
    -> (18,"Aisyah","Jl. Meenco Raya 4"),
    -> (19,"Amar","Jl. Kepodang 9"),
    -> (20,"Agus","Jl. Kacer 45");
Query OK, 10 rows affected (0.15 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

```
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 Padmasari | Jl. Manggis 15        |
|          5 | Budi Eko Prayogo  | Jl. Kantil 30         |
|          6 | Satria Eka Jaya   | Jl. Slamet Riyadi 45  |
|          8 | Sari Murti        | Jl. Pangandaran 11    |
|          9 | Canka Lokananta   | Jl. Tidar 86          |
|         10 | Budi Murtono      | Jl. Merak 22          |
|         11 | Amin              | Jl. Bebek 12          |
|         12 | Amir              | Jl. Ayam 77           |
|         13 | Apip              | Jl. Bango 69          |
|         14 | Acil              | Jl. Mop 5             |
|         15 | Ajeng             | Jl. Gagang 3          |
|         16 | Ayu               | Jl. Sudiro 1          |
|         17 | Abang             | Jl. Murai 33          |
|         18 | Aisyah            | Jl. Meenco Raya 4     |
|         19 | Amar              | Jl. Kepodang 9        |
|         20 | Agus              | Jl. Kacer 45          |
+------------+-------------------+-----------------------+
19 rows in set (0.00 sec)
```

2. cabang bank

```
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang) values
    -> ("BRUT","Bank Rut Unit Tegal","Jl. Raya Tegal 14"),
    -> ("BRUR","Bank Rut Unit Rembang","Jl. Kasihan 2"),
    -> ("BRUP","Bank Rut Unit Pati","Jl. Kretek 76"),
    -> ("BRUL","Bank Rut Unit Lembang","Jl. Cikuning 9"),
    -> ("BRUKU","Bank Rut Unit Kudus","Jl. Djarum 3"),
    -> ("BRUSU","Bank Rut Unit Subang","Jl. Cicaheum 10"),
    -> ("BRUG","Bank Rut Unit Gunung Kidul","Jl. Pasir Wetan 32"),
    -> ("BRUC","Bank Rut Unit Gunung Cemani","Jl. Margondi 11"),
    -> ("BRUA","Bank Rut Unit Ampel","Jl. Ampel 311"),
    -> ("BRUD","Bank Rut Unit Demak","Jl. Wali 44");
Query OK, 10 rows affected (0.08 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
+-------------+------------------------------+----------------------+
| kode_cabang | nama_cabang                  | alamat_cabang        |
+-------------+------------------------------+----------------------+
| BRUA        | Bank Rut Unit Ampel          | Jl. Ampel 311        |
| BRUB        | Bank Rut Unit Boyolali       | Jl. Ahmad Yani 45    |
| BRUC        | Bank Rut Unit Gunung Cemani  | Jl. Margondi 11      |
| BRUD        | Bank Rut Unit Demak          | Jl. Wali 44          |
| BRUG        | Bank Rut Unit Gunung Kidul   | Jl. Pasir Wetan 32   |
| BRUK        | Bank Rut Unit Klaten         | Jl. Suparman 23      |
| BRUKU       | Bank Rut Unit Kudus          | Jl. Djarum 3         |
| BRUL        | Bank Rut Unit Lembang        | Jl. Cikuning 9       |
| BRUP        | Bank Rut Unit Pati           | Jl. Kretek 76        |
| BRUR        | Bank Rut Unit Rembang        | Jl. Kasihan 2        |
| BRUS        | Bank Rut Unit Surakarta      | Jl. Slamet Riyadi 18 |
| BRUSU       | Bank Rut Unit Subang         | Jl. Cicaheum 10      |
| BRUT        | Bank Rut Unit Tegal          | Jl. Raya Tegal 14    |
| BRUW        | Bank Rut Unit Wonogiri       | Jl. A. Yani 23       |
| BRUY        | Bank Rut Unit Yogyakarta     | Jl. Anggrek 21       |
+-------------+------------------------------+----------------------+
15 rows in set (0.03 sec)

MariaDB [perbankan]>
```

3. rekening

```
MariaDB [perbankan]> insert into rekening (no_rekening,kode_cabangFK,pin,saldo) values
    -> (114,"BRUP",1414,20000),
    -> (115,"BRUL",1515,340000),
    -> (116,"BRUKU",1616,530000),
    -> (117,"BRUG",1717,120000),
    -> (118,"BRUC",1818,120000),
    -> (119,"BRUW",1919,50000),
    -> (120,"BRUT",2020,202000),
    -> (121,"BRUT",2120,234500),
    -> (122,"BRUR",4565,44500),
    -> (123,"BRUA",2332,45200);
Query OK, 10 rows affected (0.09 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from rekening;
+-------------+---------------+------+---------+
| no_rekening | kode_cabangFK | pin  | saldo   |
+-------------+---------------+------+---------+
|         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          | 0    | 5000000 |
|         109 | BRUB          | 9999 |       0 |
|         110 | BRUY          | 1234 |  550000 |
|         111 | BRUK          | 4321 |  150000 |
|         112 | BRUK          | 123  |  300000 |
|         113 | BRUY          | 8888 |  255000 |
|         114 | BRUP          | 1414 |   20000 |
|         115 | BRUL          | 1515 |  340000 |
|         116 | BRUKU         | 1616 |  530000 |
|         117 | BRUG          | 1717 |  120000 |
|         118 | BRUC          | 1818 |  120000 |
|         119 | BRUW          | 1919 |   50000 |
|         120 | BRUT          | 2020 |  202000 |
|         121 | BRUT          | 2120 |  234500 |
|         122 | BRUR          | 4565 |   44500 |
|         123 | BRUA          | 2332 |   45200 |
+-------------+---------------+------+---------+
23 rows in set (0.00 sec)

MariaDB [perbankan]>
```

4. nasabah_has_rekening

```
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK) values
    -> (11,114),
    -> (12,115),
    -> (13,116),
    -> (14,117),
    -> (15,118),
    -> (16,119),
    -> (17,120),
    -> (18,121),
    -> (19,122),
    -> (20,123),
    -> (20,121);
Query OK, 11 rows affected (0.11 sec)
Records: 11  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from nasabah_has_rekening;
+--------------+---------------+
| id_nasabahFK | no_rekeningFK |
+--------------+---------------+
|            1 |           104 |
|            2 |           103 |
|            3 |           105 |
|            3 |           106 |
|            4 |           101 |
|            4 |           107 |
|            5 |           102 |
|            5 |           107 |
|            6 |           109 |
|            7 |           109 |
|            8 |           111 |
|            8 |           112 |
|            9 |           110 |
|           10 |           108 |
|           10 |           113 |
|           11 |           114 |
|           12 |           115 |
|           13 |           116 |
|           14 |           117 |
|           15 |           118 |
|           16 |           119 |
|           17 |           120 |
|           18 |           121 |
|           19 |           122 |
|           20 |           121 |
|           20 |           123 |
+--------------+---------------+
```

5. transaksi

```
MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) value
s
    -> (31,114,11,"debit","2009-12-7",200000),
    -> (32,115,12,"debit","2009-12-7",40000),
    -> (33,116,13,"kredit","2009-12-7",120000),
    -> (34,117,14,"kredit","2009-12-7",100000),
    -> (35,118,15,"debit","2009-12-8",500000),
    -> (36,119,16,"debit","2009-12-8",13200000),
    -> (37,120,17,"kredit","2009-12-8",100000),
    -> (38,121,18,"kredit","2009-12-8",900000),
    -> (39,122,18,"debit","2009-12-8",300000),
    -> (40,123,18,"debit","2009-12-9",5600000),
    -> (41,114,19,"debit","2009-12-9",600000),
    -> (42,115,20,"kredit","2009-12-10",700000),
    -> (43,116,11,"kredit","2009-12-10",990000),
    -> (44,117,12,"debit","2009-12-10",90000),
    -> (45,118,12,"debit","2009-12-10",9000000),
    -> (46,119,13,"debit","2009-12-11",11000000),
    -> (47,120,13,"kredit","2009-12-11",10000000),
    -> (48,121,14,"kredit","2009-12-11",990000),
    -> (49,122,15,"debit","2009-12-12",690000),
    -> (50,123,16,"debit","2009-12-12",7770000);
Query OK, 20 rows affected (0.12 sec)
Records: 20  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankan]> select * from transaksi;
+--------------+---------------+--------------+-----------------+------------+----------+
| no_transaksi | no_rekeningFK | id_nasabahFK | jenis_transaksi | tanggal    | jumlah   |
+--------------+---------------+--------------+-----------------+------------+----------+
|            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           | 2009-12-01 |    50000 |
|           25 |           103 |            2 | debit           | 2009-12-02 |    40000 |
|           26 |           101 |            4 | debit           | 2009-12-04 |    50000 |
|           27 |           103 |            2 | kredit          | 2009-12-05 |   100000 |
|           28 |           102 |            5 | kredit          | 2009-12-05 |   200000 |
|           29 |           109 |            7 | debit           | 2009-12-05 |   100000 |
|           30 |           110 |            9 | debit           | 2009-12-06 |    20000 |
|           31 |           114 |           11 | debit           | 2009-12-07 |   200000 |
|           32 |           115 |           12 | debit           | 2009-12-07 |    40000 |
|           33 |           116 |           13 | kredit          | 2009-12-07 |   120000 |
|           34 |           117 |           14 | kredit          | 2009-12-07 |   100000 |
|           35 |           118 |           15 | debit           | 2009-12-08 |   500000 |
|           36 |           119 |           16 | debit           | 2009-12-08 | 13200000 |
|           37 |           120 |           17 | kredit          | 2009-12-08 |   100000 |
|           38 |           121 |           18 | kredit          | 2009-12-08 |   900000 |
|           39 |           122 |           18 | debit           | 2009-12-08 |   300000 |
|           40 |           123 |           18 | debit           | 2009-12-09 |  5600000 |
|           41 |           114 |           19 | debit           | 2009-12-09 |   600000 |
|           42 |           115 |           20 | kredit          | 2009-12-10 |   700000 |
|           43 |           116 |           11 | kredit          | 2009-12-10 |   990000 |
|           44 |           117 |           12 | debit           | 2009-12-10 |    90000 |
|           45 |           118 |           12 | debit           | 2009-12-10 |  9000000 |
|           46 |           119 |           13 | debit           | 2009-12-11 | 11000000 |
|           47 |           120 |           13 | kredit          | 2009-12-11 | 10000000 |
|           48 |           121 |           14 | kredit          | 2009-12-11 |   990000 |
|           49 |           122 |           15 | debit           | 2009-12-12 |   690000 |
|           50 |           123 |           16 | debit           | 2009-12-12 |  7770000 |
+--------------+---------------+--------------+-----------------+------------+----------+
50 rows in set (0.00 sec)

MariaDB [perbankan]>
```