Nama : Tito Andika Wahyu Purwa

NIM   : L200180007

Kelas : A

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]>
```