Nama: Tito Andika Wahyu Purwa

NIM : L200180007

Kelas: A

Modul 5

Data Manipulation Language (DML)

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.418]
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C:\Users\asus>cd..

C:\Users\cd..

C:\\cd xampp\mysql\bin

C:\xampp\mysql\bin>mysql -u root -p

Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 5

Server version: 10.1.36-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

```
👞 Command Prompt - mysql -u root -p
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,
-> 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)
          ₫ŧ
                                   w≣
MariaDB [perbankan5]> CREATE TABLE transaksi(
     -> no_transaksi_SERIAL PRIMARY KEY,
-> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,
```

```
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,

- > jumlah INTEGER 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'),

- > (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)
          laub [perbankans]> Insert into transaksi(no_transaksi)
-> 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),
           -> (0, 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),
        -> (8, 102, 5, 'debit', '2009-11-18', 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', '2009-11-28', 200000),
-> (21, 103, 2, 'kredit', '2009-11-28', 200000),
-> (22, 105, 3, 'kredit', '2009-11-28', 200000),
-> (23, 102, 5, 'debit', '2009-11-28', 100000),
-> (24, 104, 1, 'debit', '2009-12-2', 40000),
-> (25, 103, 2, 'kredit', '2009-12-2', 40000),
-> (26, 101, 4, 'debit', '2009-12-2', 40000),
-> (27, 103, 2, 'kredit', '2009-12-5', 100000),
-> (28, 102, 5, 'kredit', '2009-12-5', 200000),
-> (29, 109, 7, 'debit', '2009-12-5', 200000),
-> (29, 109, 7, 'debit', '2009-12-5', 100000),
-> (29, 109, 7, 'debit', '2009-12-6', 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
            Suparman
         3
                                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. Sutovo 5
         8
            Sari Murti
                                Jl. Pangandaran 11
                               Jl. Tidar 86
         9
            Canka Lokananta
                              Jl. Merak 22
         10 | Budi Murtono
10 rows in set (0.00 sec)
```

```
MariaDB [perbankan5]> select * from rekening;
+-----
no_rekening | kode_cabangFK | pin | saldo
       101 BRUS
                      1111
                              500000
       102 BRUS
       103 | BRUS
       104 BRUM
       105 | BRUM
       106 BRUS
       107 | BRUS
       108 BRUB
       109
           BRUB
       110
           BRUY
       111 | BRUK
       112 BRUK
       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
                           105
             3
                           106
                           101
             4 5
                           107
                           102
                           107
             6
                           109
                           109
             8
                           111
            9
                           110
            10
                           113
             8
                           112
            10
                           108
15 rows in set (0.00 sec)
```

_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

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
                                   Jl. Hasanudin 81
           3 | Suparman
                                   Jl. Manggis 15
           4 | Kartika Padmasari
           5 | Budi Eko Prayogo
                                   Jl. Kantil 30
           6 | Satria Eka Jaya
                                   Jl. Slamet Riyadi 45
                                   Jl. Sutoyo 5
           7 | Indri Hapsari
                                    Jl. Pangandaran 11
           8
             | Sari Murti
           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;
                                  alamat_nasabah
 id_nasabah | nama_nasabah
           1 Sutopo
                                   Jl. Jendral Sudirman 12
           2 | Maryati
                                   Jl. MT. Haryono 31
                                    Jl. Hasanudin 81
           3 | Suparman
           4 | Kartika Padmasari
                                   Jl. Manggis 15
           5 | Budi Eko Prayogo
                                   Jl. Kantil 30
           6 | Satria Eka Jaya
                                   Jl. Slamet Riyadi 45
              Indri Hapsari
                                    Jl. Slamet Riyadi 34
           8 | Sari Murti
                                   Jl. Pangandaran 11
           9 | Canka Lokananta
                                   Jl. Tidar 86
                                   Jl. Merak 22
          10 | Budi Murtono
10 rows in set (0.00 sec)
```

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

Melakukan delete

7. a

```
mysql> select * from nasabah;
 id nasabah | nama nasabah
                                 alamat nasabah
                                  Jl. Jendral Sudirman 12
          1 Sutopo
          2 | Maryati
                                | Jl. MT. Haryono 31
                                  Jl. Hasanudin 81
          3 1
             Suparman
          4 | Kartika Padmasari
                                  Jl. Manggis 15
          5 | Budi Eko Prayogo
                                  Jl. Kantil 30
             Satria Eka Jaya
                                  Jl. Slamet Riyadi 45
          6 |
             Indri Hapsari
                                  Jl. Slamet Riyadi 34
          7 |
          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
                                  Jl. Manggis 15
          4
            | Kartika Padmasari
          5 | Budi Eko Prayogo
                                  Jl. Kantil 30
          6 | Satria Eka Jaya
                                  Jl. Slamet Riyadi 45
              Sari Murti
                                  Jl. Pangandaran 11
          8
          9 1
             Canka Lokananta
                                  Jl. Tidar 86
         10 | Budi Murtono
                                Jl. Merak 22
 rows in set (0.00 sec)
```

```
mysql> select * from cabang bank;
 kode cabang | nama cabang
                                          alamat cabang
              Bank Rut Unit Boyolali
                                           Jl. Ahmad Yani 45
              | Bank Rut Unit Klaten
                                          Jl. Suparman 23
 BRUK
              | Bank Rut Unit Magelang | Jl. P. Tendean 63
| Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18
                                         Jl. P. Tendean 63
 BRUM
 BRUS
              Bank Rut Unit Wonogiri
 BRUW
                                         Jl. Ahmad Yani 23
             | Bank Rut Unit Yogyakarta | Jl. Anggrek 21
 BRUY
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;
                                          | alamat cabang
kode cabang | nama cabang
              Bank Rut Unit Boyolali
                                         Jl. Ahmad Yani 45
 BRUB
 BRUK
              Bank Rut Unit Klaten
                                          Jl. Suparman 23
 BRUS
              | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18
              Bank Rut Unit Wonogiri
                                         Jl. Ahmad Yani 23
 BRUW
            | Bank Rut Unit Yogyakarta | Jl. Anggrek 21
 BRUY
 rows in set (0.00 sec)
```

Tugas

1. Tabel nasabah

```
ariaDB [perbankan]> select * from nasabah;
   id_nasabah | nama_nasabah
                                                                                  | alamat_nasabah
                                                                                    Jl. Jendral SUdirman 12
Jl. MT. Haryono 31
Jl. Hasanudin 81
Jl. Manggis 15
Jl. Kantil 30
Jl. Slamet Riyadi 45
Jl. Pangandaran 11
Jl. Tidar 86
Jl. Merak 22
Jl. Bebek 12
Jl. Ayam 77
Jl. Bango 69
Jl. Mop 5
Jl. Gagang 3
Jl. Sudiro 1
Jl. Murai 33
Jl. Meenco Raya 4
Jl. Kepodang 9
Jl. Kacer 45
                                   Sutopo
                                   Maryati
                                   Suparman
Kartika Padmasari
                                  Budi Eko Prayogo
Satria Eka Jaya
Sari Murti
Canka Lokananta
Budi Murtono
                       10
11
12
13
14
15
16
17
                                   Amin
                                  Amir
                                   Apip
Acil
                                    Ajeng
                                   Ayu
Abang
Aisyah
                       18
19
                                    Amar
                                   Agus
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"),

-> ("BRUF","Bank Rut Unit Rembang","Jl. Kasihan 2"),

-> ("BRUP","Bank Rut Unit Pati","Jl. Kretek 76"),

-> ("BRUB","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"),

-> ("BRUG","Bank Rut Unit Gunung Cemani","Jl. Margondi 11"),

-> ("BRUG","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
                                                      Bank Rut Unit Ampel
Bank Rut Unit Boyolali
Bank Rut Unit Gunung Cemani
Bank Rut Unit Demak
                                                                                                                                                               Jl. Ampel 311
Jl. Ahmad Yani 45
Jl. Margondi 11
Jl. Wali 44
Jl. Pasir Wetan 32
      BRUA
      BRUB
      BRUC
      BRUD
                                                     Bank Rut Unit Demak
Bank Rut Unit Gunung Kidul
Bank Rut Unit Klaten
Bank Rut Unit Lembang
Bank Rut Unit Pati
Bank Rut Unit Rembang
Bank Rut Unit Surakarta
Bank Rut Unit Subang
Bank Rut Unit Tegal
Bank Rut Unit Honogiri
Bank Rut Unit Wonogiri
Bank Rut Unit Yogyakarta
       BRUG
                                                                                                                                                              Jl. Pasir Wetan 32
Jl. Suparman 23
Jl. Djarum 3
Jl. Cikuning 9
Jl. Kretek 76
Jl. Kasihan 2
Jl. Slamet Riyadi 18
       BRUK
      BRUKU
      BRUL
      BRUP
       BRUR
       BRUS
       BRUSU
                                                                                                                                                                 Jl. Cicaheum 10
                                                                                                                                                               Jl. Raya Tegal 14
Jl. A. Yani 23
Jl. Anggrek 21
      BRUT
      BRUW
                                                       Bank Rut Unit Yogyakarta
      BRUY
   l5 rows in set (0.03 sec)
   MariaDB [perbankan]>
```

```
MariaDB [perbankan]> select * from rekening;
 no_rekening | kode_cabangFK | pin | saldo
              BRUS
                                    500000
                                    350000
         102
              BRUS
         103
              BRUS
                                    750000
         104
              BRUM
                            4444
                                    900000
                                   2000000
              BRUM
         106
              BRUS
                            6666
                                   3000000
         107
              BRUS
                                   1000000
              BRUB
                            0
                                   5000000
         108
                            9999
              BRUB
         109
              BRUY
                            1234
                                    550000
              BRUK
                                    150000
         112
              BRUK
                                    300000
              BRUY
                            8888
                                    255000
         114
              BRUP
                            1414
                                    20000
              BRUL
                                    340000
                                    530000
              BRUKU
                             1616
              BRUG
                            1717
                                    120000
                                    120000
         118
              BRUC
                            1818
         119
              BRUW
                            1919
                                    50000
                                    202000
         120
                            2020
              BRUT
                            2120
              BRUT
                                    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),
-> (19,121),

-> (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 |
                  2 | 3 | 3 | 4 |
                                      103
                                      105
                                      106
                                      101
                  4
                                      107
                  5 |
                                      102
                                      107
                  6 j
                                      109
                                      109
                                      111
                                      110
                 10
                                      108
                 10
                                      113
                                      114
                 12
                                      115
                 13
                                      116
                 14
                 15
                                      118
                 16
                                      119
                                      120
                 18
                                      121
                 19
                                      122
                 20
                 20
```

5. transaksi

```
MariaD8 [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) value

-> (31,114,11,"debit","2009-12-7",200000),
-> (32,115,12,"debit","2009-12-7",120000),
-> (33,116,13,"kredit","2009-12-7",120000),
-> (34,117,14,"kredit","2009-12-8",500000),
-> (35,118,15,"debit","2009-12-8",500000),
-> (36,119,16,"debit","2009-12-8",13200000),
-> (37,120,17,"kredit","2009-12-8",900000),
-> (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","2009-12-10",700000),
-> (42,115,20,"kredit","2009-12-10",700000),
-> (43,116,11,"kredit","2009-12-10",90000),
-> (44,117,12,"debit","2009-12-10",90000),
-> (45,118,12,"debit","2009-12-11",1000000),
-> (46,119,13,"debit","2009-12-11",1000000),
-> (47,120,13,"kredit","2009-12-11",1000000),
-> (48,121,14,"kredit","2009-12-11",900000),
-> (48,121,14,"kredit","2009-12-11",900000),
-> (49,122,15,"debit","2009-12-12",770000);
Query OK, 20 rows affected (0.12 sec)
Records: 20 Duplicates: 0 Warnings: 0
```

o_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
	101	4	kredit	2009-11-12	20000
4	106		debit	2009-11-13	50000
	107	5	kredit	2009-11-13	30000
	104	1	kredit	2009-11-15	200000
	110	9	kredit	2009-11-15	150000
8	102	5	debit	2009-11-16	20000
	105		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		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 21	106 103	2	kredit kredit	2009-11-27 2009-11-28	50000
22	103	3	kredit	2009-11-28	200000 100000
23	105	5	kredit debit	2009-11-28	20000
24	102	1	debit	2009-11-30	50000
25	103	2	debit	2009-12-01	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 j	11	kredit	2009-12-10	990000
44	110	12	debit	2009-12-10	90000
45	117	12	debit	2009-12-10	9000000
46	118	13	debit	2009-12-10	11000000
47	120	13	kredit	2009-12-11	10000000
48	120	14	kredit	2009-12-11	990000
49	122	15	debit	2009-12-12	690000
50	123	16	debit	2009-12-12	7770000

MariaDB [perbankan]>