Nama: Aisyah Goevara

NIM : L200180034

Kelas: B

### Modul 5

# Data Manipulation Language (DML)

```
Microsoft Windows [Version 10.0.18362.418]
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C:\Users\asus>cd..

C:\Users\cd..

C:\vcd 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,
     -> 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)
          ∐i
                                  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,
-> 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'),
-> (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),
```

```
-> values(1, 105, 3, 'debit', '2009-11-10', 40000),
-> (2, 103, 2, 'debit', '2009-11-11', 50000),
-> (3, 101, 4, 'kredit', '2009-11-13', 50000),
-> (4, 106, 3, 'debit', '2009-11-13', 50000),
-> (5, 107, 5, 'kredit', '2009-11-13', 50000),
-> (6, 104, 1, 'kredit', '2009-11-15', 100000),
-> (7, 100, 9, 'kredit', '2009-11-15', 150000),
-> (9, 105, 2, 'kredit', '2009-11-15', 150000),
-> (10, 107, 4, 'debit', '2009-11-19', 100000),
-> (11, 103, 2, 'debit', '2009-11-19', 100000),
-> (12, 104, 1, 'kredit', '2009-11-19', 100000),
-> (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),
-> (16, 101, 4, 'kredit', '2009-11-22', 20000),
-> (17, 103, 2, 'debit', '2009-11-22', 50000),
-> (19, 104, 1, 'kredit', '2009-11-22', 20000),
-> (19, 106, 3, 'kredit', '2009-11-27', 50000),
-> (20, 106, 3, 'kredit', '2009-11-27', 50000),
-> (21, 103, 2, 'kredit', '2009-11-27', 50000),
-> (21, 103, 2, 'kredit', '2009-11-28', 100000),
-> (22, 105, 3, 'kredit', '2009-11-28', 100000),
-> (24, 104, 1, 'debit', '2009-11-28', 100000),
-> (27, 103, 2, 'kredit', '2009-11-28', 100000),
-> (27, 103, 2, 'kredit', '2009-11-28', 100000),
-> (29, 106, 3, 'kredit', '2009-11-28', 100000),
-> (20, 106, 3, 'kredit', '2009-11-28', 100000),
-> (21, 103, 2, 'kredit', '2009-11-28', 100000),
-> (22, 105, 3, 'kredit', '2009-12-15', 500000),
-> (29, 106, 3, 'kredit', '2009-12-15', 100000),
-> (29, 106, 3, 'kredit', '2009-12-15', 100000),
-> (29, 109, 7, 'debit', '2009-12-15', 100000),
-> (29, 109, 7, 'debit', '2009-12-15', 100000),
-> (29, 109, 7, 'debit', '2009-12-6', 200000),
-> (29, 109, 7, 'debit', '2009-12-6', 200000),
-> (29, 109, 7, 'debit', '2009-12-6', 200000),
-> (20, 100, 9, 'debit', '200
```

Hasil

```
MariaDB [perbankan5]> select * from nasabah;
 id_nasabah | nama_nasabah
                                  alamat_nasabah
                                  Jl.Jenderal Sudirman 12
              Sutopo
          2
              Maryati
                                  Jl. MT. Haryono 31
          3
              Suparman
                                  Jl. Hasanudin 81
          4
              Kartika Padmasari
                                  Jl. Manggis 15
          5
              Budi Eko Prayogo
                                  Jl. Kantil 30
              Satria Eka Jaya
                                  Jl. Slamet Riyadi 45
          6
              Indri Hapsari
                                  Jl. Sutoyo 5
          7
          8
              Sari Murti
                                  Jl. Pangandaran 11
          9
              Canka Lokananta
                                 Jl. Tidar 86
            Budi Murtono
                                  Jl. Merak 22
         10
10 rows in set (0.00 sec)
```

```
MariaDB [perbankan5]> select * from cabang_bank;
 kode_cabang | nama_cabang
                                         alamat_cabang
                                          Jl. Ahmad Yani 45
               Bank Rut Unit Boyolali
 BRUB
  BRUK
               Bank Rut Unit Klaten
                                          Jl. Suparman 23
              Bank Rut Unit Magelang
                                         Jl. P.Tendean 63
 BRUM
 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
 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
                             | 4444 | 900000
| 5555 | 2000000
         104 BRUM
         105
               BRUM
         106
               BRUS
                              6666 l
                                     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
                           103
                           105
                           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;
                                   alamat nasabah
  id nasabah | nama nasabah
                                   Jl. Jendral Sudirman 12
              Sutopo
           1 |
           2
               Maryati
                                   Jl. MT. Haryono 31
           3
               Suparman
                                   Jl. Hasanudin 81
           4
             | Kartika Padmasari
                                   Jl. Manggis 15
            | Budi Eko Prayogo
                                   Jl. Kantil 30
           5
             | Satria Eka Jaya
                                   Jl. Slamet Riyadi 45
           6
                                   Jl. Sutoyo 5
               Indri Hapsari
               Sari Murti
                                   Jl. Pangandaran 11
           8
           9
               Canka Lokananta
                                   Jl. Tidar 86
                                   Jl. Merak 22
          10 | Budi Murtono
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
                                   Jl. Jendral Sudirman 12
           1 Sutopo
           2 |
                                   Jl. MT. Haryono 31
               Maryati
             Suparman
                                   Jl. Hasanudin 81
           3
           4 | Kartika Padmasari
                                   Jl. Manggis 15
               Budi Eko Prayogo
                                   Jl. Kantil 30
           5
                                   Jl. Slamet Riyadi 45
               Satria Eka Jaya
           6
                                   Jl. Slamet Riyadi 34
               Indri Hapsari
                                   Jl. Pangandaran 11
           8
               Sari Murti
                                  Jl. Tidar 86
Jl. Merak 22
               Canka Lokananta
           9
          10 | Budi Murtono
10 rows in set (0.00 sec)
```

```
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
                                           Jl. P. Tendean 63
 BRUM
                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
 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
                Bank Rut Unit Surakarta
                                           Jl. Slamet Riyadi 18
 BRUS
                Bank Rut Unit Wonogiri
                                           Jl. Ahmad Yani 23
 BRUW
                                           Jl. Anggrek 21
 BRUY
                Bank Rut Unit Yogyakarta
 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
           3
                                   Jl. Hasanudin 81
              Suparman
                                   Jl. Manggis 15
           4
              Kartika Padmasari
           5
              Budi Eko Prayogo
                                   Jl. Kantil 30
              Satria Eka Jaya
                                   Jl. Slamet Riyadi 45
          6
                                   Jl. Slamet Riyadi 34
              Indri Hapsari
              Sari Murti
                                   Jl. Pangandaran 11
          8
          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
                                   Jl. MT. Haryono 31
              Maryati
           3
              Suparman
                                  Jl. Hasanudin 81
              Kartika Padmasari
                                   Jl. Manggis 15
           4
           5
              Budi Eko Prayogo
                                   Jl. Kantil 30
                                   Jl. Slamet Riyadi 45
          6
              Satria Eka Jaya
              Sari Murti
                                   Jl. Pangandaran 11
          8
                                   Jl. Tidar 86
              Canka Lokananta
           9
         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
 BRUB
                                          Jl. Suparman 23
 BRUK
               Bank Rut Unit Klaten
                                          Jl. P. Tendean 63
              | Bank Rut Unit Magelang
 BRUM
              | Bank Rut Unit Surakarta
                                          Jl. Slamet Riyadi 18
 BRUS
 BRUW
              | Bank Rut Unit Wonogiri
                                        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;
 kode_cabang | nama_cabang
                                         alamat_cabang
 BRUB
              | Bank Rut Unit Boyolali
                                          Jl. Ahmad Yani 45
              Bank Rut Unit Klaten
 BRUK
                                          Jl. Suparman 23
 BRUS
              | Bank Rut Unit Surakarta
                                         Jl. Slamet Riyadi 18
             Bank Rut Unit Wonogiri
                                        | Jl. Ahmad Yani 23
 BRUW
 BRUY
              Bank Rut Unit Yogyakarta | Jl. Anggrek 21
 rows in set (0.00 sec)
```

# **Tugas**

1. Tabel nasabah

```
MariaD8 [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah) values
-> (11,"Amin","Jl. Bebek 12"),
-> (12,"Amin","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
```

```
NariaDB [perbankan]> select * from nasabah;
  id_nasabah | nama_nasabah
                                                                                | alamat_nasabah
                                                                                  Jl. Jendral SUdirman
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
                                                                                    Jl. Jendral SUdirman 12
                                  Suparman
Kartika Padmasari
                                  Budi Eko Prayogo
Satria Eka Jaya
                                 Sari Murti
Canka Lokananta
Budi Murtono
Amin
                      10
11
12
13
14
15
16
17
                                  Amir
                                  Apip
Acil
                                 Ajeng
Ayu
Abang
Aisyah
                                  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"),
-> ("BRUR","Bank Rut Unit Rembang","Jl. Kasihan 2"),
-> ("BRUP","Bank Rut Unit Pati","Jl. Kretek 76"),
-> ("BRUL","Bank Rut Unit Lembang","Jl. Cikuning 9"),
-> ("BRUL","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
                                         Bank Rut Unit Ampel
Bank Rut Unit Boyolali
Bank Rut Unit Gunung Cemani
Bank Rut Unit Demak
Bank Rut Unit Gunung Kidul
Bank Rut Unit Klaten
                                                                                                                         Jl. Ampel 311
Jl. Ahmad Yani 45
      BRUA
      BRUB
                                                                                                                         Jl. Margondi 11
Jl. Wali 44
      BRUC
      BRUD
      BRUG
                                                                                                                           Jl. Pasir Wetan 32
      BRUK
                                                                                                                           Jl. Suparman 23
                                                                                                                         Jl. Djarum 3
Jl. Cikuning 9
Jl. Kretek 76
      BRUKU
                                           Bank Rut Unit Kudus
                                          Bank Rut Unit Lembang
Bank Rut Unit Pati
Bank Rut Unit Rembang
Bank Rut Unit Surakarta
Bank Rut Unit Subang
      BRID
                                                                                                                          Jl. Kasihan 2
Jl. Slamet Riyadi 18
Jl. Cicaheum 10
      BRUR
      BRUS
      BRUSU
      BRUT
                                           Bank Rut Unit Tegal
                                                                                                                           Jl. Raya Tegal 14
                                          Bank Rut Unit Wonogiri
Bank Rut Unit Yogyakarta
      BRUW
                                                                                                                           Jl. A. Yani 23
                                                                                                                         Jl. Anggrek 21
      BRUY
  15 rows in set (0.03 sec)
  MariaDB [perbankan]>
```

### 3. rekening

```
MariaDB [perbankan]> select * from rekening;
 no_rekening | kode_cabangFK | pin
                                 saldo
              BRUS
                             1111
                                    500000
                                    350000
         102
              BRUS
         103
              BRUS
                                    750000
         104
              BRUM
                             4444
                                    900000
                             5555
              BRUM
         105
                                    2000000
         106
              BRUS
                             6666
                                    3000000
         107
              BRUS
                                    1000000
                                    5000000
         108
              BRUB
                             0
                             9999
         109
              BRUB
                                        0
                             1234
                                    550000
              BRUY
              BRUK
                                    150000
              BRUK
                                    300000
              BRUY
                             8888
                                    255000
         114
              BRUP
                             1414
                                     20000
              BRUL
                                    340000
         116
              BRUKU
                             1616
                                    530000
              BRUG
                             1717
                                    120000
                             1818
                                    120000
         118
              BRUC
         119
              BRUW
                             1919
                                     50000
         120
              BRUT
                             2020
                                    202000
              BRUT
                                    234500
              BRUR
                             4565
                                     44500
              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 |
                                   103
                                   105
                                   106
                                   101
                                   107
                                   102
                                   107
                                   109
                                   109
                                   111
                                   110
               10
                                   108
               10
                                   113
                                   114
               12
13
                                   115
                                   116
               14
               15
                                   118
               16
                                   119
                                   120
               19
                                   122
                20
                20
```

## 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",120000),
-> (33,116,13,"kredit","2009-12-7",120000),
-> (34,117,14,"kredit","2009-12-8",500000),
-> (35,118,15,"debit","2009-12-8",31200000),
-> (35,118,15,"debit","2009-12-8",31200000),
-> (37,120,17,"kredit","2009-12-8",300000),
-> (38,121,18,"kredit","2009-12-8",300000),
-> (39,122,18,"debit","2009-12-8",300000),
-> (40,123,18,"debit","2009-12-9",5600000),
-> (44,114,19,"debit","2009-12-10",700000),
-> (42,115,20,"kredit","2009-12-10",700000),
-> (43,116,11,"kredit","2009-12-10",900000),
-> (44,117,12,"debit","2009-12-10",900000),
-> (44,117,12,"debit","2009-12-11",10000000),
-> (45,118,12,"debit","2009-12-11",10000000),
-> (47,120,13,"kredit","2009-12-11",10000000),
-> (48,121,14,"kredit","2009-12-11",9000000),
-> (48,121,14,"kredit","2009-12-11",9000000),
-> (48,121,14,"kredit","2009-12-11",9000000),
-> (49,122,15,"debit","2009-12-11",9000000),
-> (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
```

| riaDB [perbank | can]> select * fi | rom 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<br>  1     | debit  | 2009-11-21                   | 40000          |
| 15             | 104<br>101        | 1 4            | kredit<br>  kredit   | 2009-11-22                   | 100000         |
| 16  <br>17     | 103               | 1 2            | debit  | 2009-11-22                   | 20000<br>50000 |
| 18             | 102               | 5              | debit  | 2009-11-25                   | 50000          |
| 19             | 102               | 10             | debit  | 2009-11-25                   | 100000         |
| 20             | 106               | ] 3            | kredit   | 2009-11-20                   | 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 İ           | 116               | 11             | kredit   | i 2009-12-10 i               | 990000         |
| 44             |                   |                | to the second se |                              |                |
|                | 117               | 12             | debit  | 2009-12-10                   | 90000          |
| 45  <br>46     | 118  <br>119      | 12<br>13       | debit<br>  debit   | 2009-12-10  <br>  2009-12-11 | 9000000        |
| 47             | 120               | 13             | kredit   | 2009-12-11                   | 10000000       |
| 48             | 121               | 14             | kredit   | 2009-12-11                   | 990000         |
| 48  <br>49     | 121               | 15             | debit  | 2009-12-11                   | 690000         |
| 50 I           | 123               | 16             | debit  | 2009-12-12                   | 7770000        |
|                | 123               | 10             | +  | 2003-12-12  <br>             | 7770000        |
| rows in set (  | 0.00 sec)         |                |  |                              |                |

MariaDB [perbankan]>