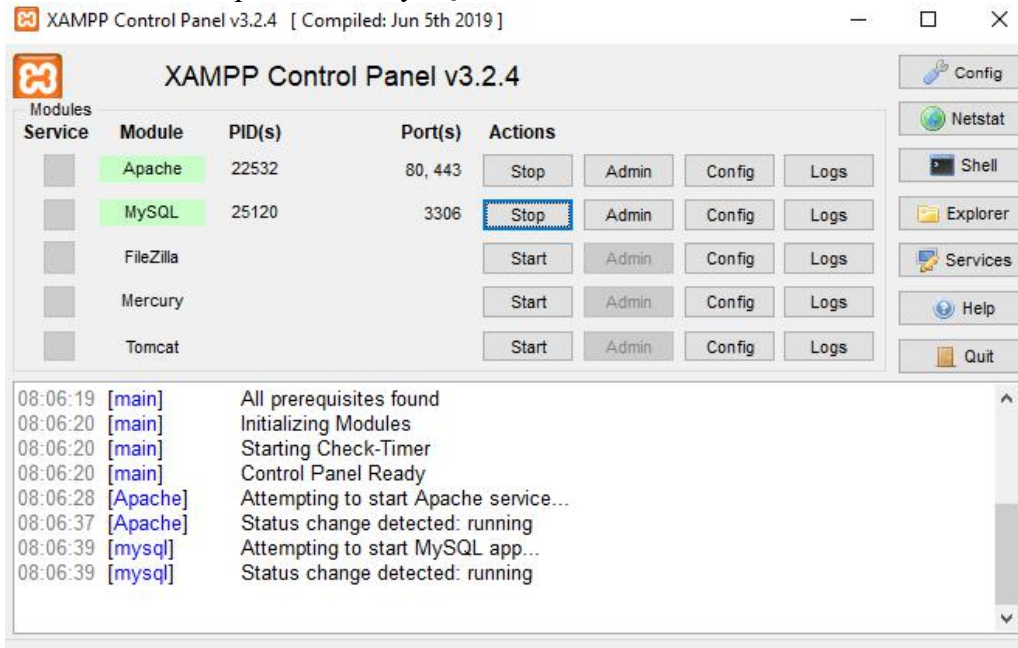


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NIM : L200180193
Kelas : G
Mata Kuliah : Praktikum Sistem Basis Data

Modul 5 : Data Multipulation Language (DML)

Langkah - langkah praktikum :

1. Jalankan XAMPP Control Panel.
2. Jalankan server Apache dan MySQL.



3. Buka command Promp dan login sebagai root ke MySQL seperti langkah pada Modul 1.

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\hnp>cd\
C:\>cd C:\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 10
Server version: 10.4.11-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.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| kuliah |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
7 rows in set (0.001 sec)
```

4. Pilih database perbankan dengan perintah 'use perbankan'. sehingga akan muncul pemberitahuan 'database changed'.
5. Kemuddian masukkan data-data berikut ini kedalam database perbankan.

a) Tabel : nasabah

```

Command Prompt - mysql -u root -p
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values (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 Martono', 'Jl.Merak 22');
Query OK, 10 rows affected (0.485 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 |
| 7 | Indri Hapsari | Jl.Sutoyo 5 |
| 8 | Sari Murti | Jl.Pangandaran 11 |
| 9 | Canka Lokananta | Jl.Tidar 86 |
| 10 | Budi Martono | Jl.Merak 22 |
+-----+-----+-----+
10 rows in set (0.002 sec)

MariaDB [perbankan]>

```

b) Tabel : cabang_bank

```

Command Prompt - mysql -u root -p
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) values ('BRUS', 'Bank Rut Unit Surakarta', 'Jl.Slamet Riyadi 18'), ('BRUM', 'Bank Rut Unit Magelang', 'Jl.P.Tendean 63'), ('BRUB', 'Bank Rut Unit Boyolali', 'Jl.Ahmad Yani 45')
-> ('BRUK', 'Bank Rut Unit Klaten', 'Jl.Suparman 3'), ('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl.Anggrek 21'), ('BRUW', 'Bank Rut Unit Wonogiri', 'Jl.Untung Surapati 12');
Query OK, 6 rows affected (0.286 sec)
Records: 6 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> 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 3 |
| 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 Surapati 12 |
| BRUY | Bank Rut Unit Yogyakarta | Jl.Anggrek 21 |
+-----+-----+-----+
6 rows in set (0.000 sec)

MariaDB [perbankan]>

```

c) Tabel : rekening

```

Command Prompt - mysql -u root -p
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo) values (101, 'BRUS', '1111', 500000), (102, 'BRUS', '2222', 350000),
-> (103, 'BRUS', '3333', 750000), (104, 'BRUM', '4444', 900000), (105, 'BRUM', '5555', 2000000), (106, 'BRUS', '6666', 3000000),
-> (107, 'BRUS', '7777', 1000000), (108, 'BRUB', '0000', 5000000), (109, 'BRUB', '9999', 0), (110, 'BRUY', '1234', 550000),
-> (111, 'BRUK', '4321', 150000), (112, 'BRUK', '0123', 300000), (113, 'BRUY', '8888', 255000);
Query OK, 13 rows affected (0.093 sec)
Records: 13 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 | 0000 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 0123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
+-----+-----+-----+-----+
13 rows in set (0.000 sec)

MariaDB [perbankan]>

```

d) Tabel : nasabah_has_rekening

```

Command Prompt - mysql -u root -p
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK, no_rekeningFK) values (1, 104), (2, 103), (3, 105),
(3, 106), (4, 101), (4, 107),
-> (5, 102), (5, 107), (6, 109), (7, 109), (8, 111), (9, 110), (10, 113), (8, 112), (10, 108);
Query OK, 15 rows affected (0.221 sec)
Records: 15 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 |
+-----+-----+
15 rows in set (0.000 sec)

MariaDB [perbankan]>

```

e) Tabel : transaksi

```

Command Prompt - mysql -u root -p
MariaDB [perbankan]> insert into transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah)
values
-> (NULL, 105, 3, 'debit', DEFAULT, 50000),
-> (NULL, 103, 2, 'debit', DEFAULT, 40000),
-> (NULL, 101, 4, 'kredit', DEFAULT, 20000),
-> (NULL, 106, 3, 'debit', DEFAULT, 50000),
-> (NULL, 107, 5, 'kredit', DEFAULT, 30000),
-> (NULL, 101, 1, 'kredit', DEFAULT, 20000),
-> (NULL, 110, 9, 'kredit', DEFAULT, 150000),
-> (NULL, 102, 5, 'debit', DEFAULT, 20000),
-> (NULL, 105, 3, 'kredit', DEFAULT, 50000),
-> (NULL, 107, 4, 'debit', DEFAULT, 100000),
-> (NULL, 103, 2, 'debit', DEFAULT, 100000),
-> (NULL, 104, 1, 'debit', DEFAULT, 50000),
-> (NULL, 107, 4, 'kredit', DEFAULT, 200000),
-> (NULL, 105, 3, 'debit', DEFAULT, 40000),
-> (NULL, 104, 1, 'kredit', DEFAULT, 100000),
-> (NULL, 101, 4, 'kredit', DEFAULT, 20000),
-> (NULL, 103, 2, 'debit', DEFAULT, 50000),
-> (NULL, 102, 5, 'debit', DEFAULT, 50000),
-> (NULL, 108, 10, 'debit', DEFAULT, 100000),
-> (NULL, 106, 3, 'kredit', DEFAULT, 50000),
-> (NULL, 103, 2, 'kredit', DEFAULT, 200000),
-> (NULL, 105, 3, 'kredit', DEFAULT, 100000),
-> (NULL, 102, 5, 'debit', DEFAULT, 20000),
-> (NULL, 104, 1, 'debit', DEFAULT, 50000),
-> (NULL, 103, 2, 'debit', DEFAULT, 40000),
-> (NULL, 101, 4, 'debit', DEFAULT, 50000),
-> (NULL, 103, 2, 'kredit', DEFAULT, 100000),
-> (NULL, 102, 5, 'kredit', DEFAULT, 200000),
-> (NULL, 109, 7, 'debit', DEFAULT, 100000),
-> (NULL, 110, 9, 'debit', DEFAULT, 20000);
Query OK, 30 rows affected (1.280 sec)
Records: 30 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from transaksi;
+-----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+-----+-----+-----+
| 1 | 3 | 105 | debit | 2020-03-26 06:23:54 | 50000 |
| 2 | 2 | 103 | debit | 2020-03-26 06:23:54 | 40000 |
| 3 | 4 | 101 | kredit | 2020-03-26 06:23:54 | 20000 |
| 4 | 3 | 106 | debit | 2020-03-26 06:23:54 | 50000 |
| 5 | 5 | 107 | kredit | 2020-03-26 06:23:54 | 30000 |
| 6 | 1 | 101 | kredit | 2020-03-26 06:23:54 | 20000 |
| 7 | 9 | 110 | kredit | 2020-03-26 06:23:54 | 150000 |
| 8 | 5 | 102 | debit | 2020-03-26 06:23:54 | 20000 |
| 9 | 3 | 105 | kredit | 2020-03-26 06:23:54 | 50000 |
| 10 | 4 | 107 | debit | 2020-03-26 06:23:54 | 100000 |
| 11 | 2 | 103 | debit | 2020-03-26 06:23:54 | 100000 |
| 12 | 1 | 104 | debit | 2020-03-26 06:23:54 | 50000 |
| 13 | 4 | 107 | kredit | 2020-03-26 06:23:54 | 200000 |
| 14 | 3 | 105 | debit | 2020-03-26 06:23:54 | 40000 |
| 15 | 1 | 104 | kredit | 2020-03-26 06:23:54 | 100000 |
| 16 | 4 | 101 | kredit | 2020-03-26 06:23:54 | 20000 |
| 17 | 2 | 103 | debit | 2020-03-26 06:23:54 | 50000 |
| 18 | 5 | 102 | debit | 2020-03-26 06:23:54 | 50000 |
| 19 | 10 | 108 | debit | 2020-03-26 06:23:54 | 100000 |
| 20 | 3 | 106 | kredit | 2020-03-26 06:23:54 | 50000 |
| 21 | 2 | 103 | kredit | 2020-03-26 06:23:54 | 200000 |
| 22 | 3 | 105 | kredit | 2020-03-26 06:23:54 | 100000 |
| 23 | 5 | 102 | debit | 2020-03-26 06:23:54 | 20000 |
| 24 | 1 | 104 | debit | 2020-03-26 06:23:54 | 50000 |
| 25 | 2 | 103 | debit | 2020-03-26 06:23:54 | 40000 |
| 26 | 4 | 101 | debit | 2020-03-26 06:23:54 | 50000 |
| 27 | 2 | 103 | kredit | 2020-03-26 06:23:54 | 100000 |
| 28 | 5 | 102 | kredit | 2020-03-26 06:23:54 | 200000 |
| 29 | 7 | 109 | debit | 2020-03-26 06:23:54 | 100000 |
| 30 | 9 | 110 | debit | 2020-03-26 06:23:54 | 20000 |
+-----+-----+-----+-----+-----+-----+

```

6. Lakukan update untuk kasus-kasus berikut ini:
- a) Nasabah dengan nama 'Indri Hapsari' pindah alamat ke 'Jl.Slamet Riyadi 34'.

```
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
7	Indri Hapsari	Jl.Sutoyo 5
8	Sari Murti	Jl.Pangandaran 11
9	Canka Lokananta	Jl.Tidar 86
10	Budi Martono	Jl.Merak 22

```
10 rows in set (0.028 sec)
```

```
MariaDB [perbankan]> update nasabah set alamat_nasabah = 'Jl.Slamet Riyadi 34'
-> where nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.229 sec)
Rows matched: 1 Changed: 1 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
7	Indri Hapsari	Jl.Slamet Riyadi 34
8	Sari Murti	Jl.Pangandaran 11
9	Canka Lokananta	Jl.Tidar 86
10	Budi Martono	Jl.Merak 22

- b) Cabang dengan kota 'BRUW' pindah ke alamat 'Jl.A.Yani 23'.

```
MariaDB [perbankan]> 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 3
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 (0.033 sec)
```

```
MariaDB [perbankan]> update cabang_bank set alamat_cabang = 'Jl.A.Yani 23'
-> where kode_cabang = 'BRUW';
Query OK, 1 row affected (0.229 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [perbankan]> 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 3
BRUM	Bank Rut Unit Magelang	Jl.P.Tendean 63
BRUS	Bank Rut Unit Surakarta	Jl.Slamet Riyadi 18
BRUW	Bank Rut Unit Wonogiri	Jl.A.Yani 23
BRUY	Bank Rut Unit Yogyakarta	Jl.Anggrek 21

```
6 rows in set (0.000 sec)
```


7. Lakukan penghapusan untu kasus-kasus berikut.

a) Nasabah dengan id '7' menutup rekeningnya

```
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
7	Indri Hapsari	Jl.Slamet Riyadi 34
8	Sari Murti	Jl.Pangandaran 11
9	Canka Lokananta	Jl.Tidar 86
10	Budi Martono	Jl.Merak 22

```
10 rows in set (0.001 sec)

MariaDB [perbankan]> delete from nasabah
-> where id_nasabah = 7;
Query OK, 1 row affected (0.196 sec)

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 Martono	Jl.Merak 22

```
9 rows in set (0.000 sec)
```

b) Cabang dengan nama cabang 'Bank Rut Unit Magelang' menutup kantornya

```
MariaDB [perbankan]> 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 3
BRUM	Bank Rut Unit Magelang	Jl.P.Tendean 63
BRUS	Bank Rut Unit Surakarta	Jl.Slamet Riyadi 18
BRUW	Bank Rut Unit Wonogiri	Jl.A.Yani 23
BRUY	Bank Rut Unit Yogyakarta	Jl.Anggrek 21

```
6 rows in set (0.000 sec)

MariaDB [perbankan]> delete from cabang_bank
-> where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.187 sec)

MariaDB [perbankan]> 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 3
BRUS	Bank Rut Unit Surakarta	Jl.Slamet Riyadi 18
BRUW	Bank Rut Unit Wonogiri	Jl.A.Yani 23
BRUY	Bank Rut Unit Yogyakarta	Jl.Anggrek 21

```
5 rows in set (0.000 sec)
```

Tugas

Masukkan beberapa record ke setiap tabel database yang telah anda buat pada modul 4. print out hasil implementasi rancangan tersebut dan analisis hasilnya. (Masing0masing 10 record untuk tabel master dan 20 record untuk tabel transaksi)

Tabel : nasabah

```
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values
-> (11, 'Bintang', 'Jl.Deposito 10'),
-> (12, 'Aviza', 'Jl.Giro 21'),
-> (13, 'Sekar', 'Jl.Taska 3'),
-> (14, 'Ulin', 'Jl.Tabanas 14'),
-> (15, 'Inung', 'Jl.Bunga 13'),
-> (16, 'Riska', 'Jl.Mawar 4'),
-> (17, 'Alfian', 'Jl.Melati 6'),
-> (18, 'Ainin', 'Jl.Merak 9'),
-> (19, 'Amar', 'Jl.Melon 5'),
-> (20, 'Khumaila', 'Jl.Jambu 32');
Query OK, 10 rows affected (0.180 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	Rudi Martono	Jl.Merak 22
11	Bintang	Jl.Deposito 10
12	Aviza	Jl.Giro 21
13	Sekar	Jl.Taska 3
14	Ulin	Jl.Tabanas 14
15	Inung	Jl.Bunga 13
16	Riska	Jl.Mawar 4
17	Alfian	Jl.Melati 6
18	Ainin	Jl.Merak 9
19	Amar	Jl.Melon 5
20	Khumaila	Jl.Jambu 32

```
19 rows in set (0.000 sec)
```

Tabel : cabang bank

```
MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) values
-> ('BRUG', 'Bank Rut Unit Grobogan', 'Jl.Sendiri 1'),
-> ('BRUT', 'Bank Rut Unit Tegal', 'Jl.Aja 2'),
-> ('BRUP', 'Bank Rut Unit Purwokerto', 'Jl.Mars 3'),
-> ('BRUR', 'Bank Rut Unit Rembang', 'Jl.Luar 4'),
-> ('BRUN', 'Bank Rut Unit Ngarangan', 'Jl.Angkasa 5'),
-> ('BRUA', 'Bank Rut Unit Ampel', 'Jl.Merkurius 6'),
-> ('BRUC', 'Bank Rut Unit Cilacap', 'Jl.Gemini 7'),
-> ('BRUD', 'Bank Rut Unit Demak', 'Jl.Cancer 8'),
-> ('BRUJ', 'Bank Rut Unit Jepara', 'Jl.Capricorn 9'),
-> ('BRUL', 'Bank Rut Unit Lamongan', 'Jl.Pisces 10');
Query OK, 10 rows affected (0.094 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.Merkurius 6
BRUB	Bank Rut Unit Boyolali	Jl.Ahmad Yani 45
BRUC	Bank Rut Unit Cilacap	Jl.Gemini 7
BRUD	Bank Rut Unit Demak	Jl.Cancer 8
BRUG	Bank Rut Unit Grobogan	Jl.Sendiri 1
BRUJ	Bank Rut Unit Jepara	Jl.Capricorn 9
BRUK	Bank Rut Unit Klaten	Jl.Suparman 3
BRUL	Bank Rut Unit Lamongan	Jl.Pisces 10
BRUN	Bank Rut Unit Ngarangan	Jl.Angkasa 5
BRUP	Bank Rut Unit Purwokerto	Jl.Mars 3
BRUR	Bank Rut Unit Rembang	Jl.Luar 4
BRUS	Bank Rut Unit Surakarta	Jl.Slamet Riyadi 18
BRUT	Bank Rut Unit Tegal	Jl.Aja 2
BRUW	Bank Rut Unit Wonogiri	Jl.A.Yani 23
BRUY	Bank Rut Unit Yogyakarta	Jl.Anggrek 21

```
15 rows in set (0.000 sec)
```

Tabel : rekening

```
MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo) values
-> (114, 'BRUA', '3210', 2000000),
-> (115, 'BRUL', '2106', 1500000),
-> (116, 'BRUC', '2000', 250000),
-> (117, 'BRUN', '2020', 300000),
-> (118, 'BRUD', '2212', 3000000),
-> (119, 'BRUP', '2012', 500000),
-> (120, 'BRUG', '2322', 4000000),
-> (121, 'BRUR', '4567', 200000),
-> (122, 'BRUJ', '7890', 250000),
-> (123, 'BRUT', '9876', 600000);
Query OK, 10 rows affected (0.351 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	0000	5000000
109	BRUB	9999	0
110	BRUY	1234	550000
111	BRUK	4321	150000
112	BRUK	0123	300000
113	BRUY	8888	255000
114	BRUA	3210	2000000
115	BRUL	2106	1500000
116	BRUC	2000	250000
117	BRUN	2020	300000
118	BRUD	2212	3000000
119	BRUP	2012	500000
120	BRUG	2322	4000000
121	BRUR	4567	200000
122	BRUJ	7890	250000
123	BRUT	9876	600000

```
23 rows in set (0.000 sec)
```

Tabel : nasabah has rekening

```
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK, no_rekeningFK) values
-> (11, 100), (12, 109),
-> (13, 104), (14, 103),
-> (15, 108), (16, 102),
-> (17, 107), (18, 101),
-> (19, 105), (20, 106);
Query OK, 10 rows affected (0.226 sec)
Records: 10 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	100
12	109
13	104
14	103
15	108
16	102
17	107
18	101
19	105
20	106

Tabel : transaksi

```
MariaDB [perbankan]> insert into transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) values
-> (NULL, 105, 11, 'debit', DEFAULT, 40000),
-> (NULL, 104, 11, 'kredit', DEFAULT, 100000),
-> (NULL, 101, 14, 'kredit', DEFAULT, 20000),
-> (NULL, 103, 12, 'debit', DEFAULT, 50000),
-> (NULL, 102, 15, 'debit', DEFAULT, 50000),
-> (NULL, 108, 20, 'debit', DEFAULT, 100000),
-> (NULL, 106, 23, 'kredit', DEFAULT, 50000),
-> (NULL, 103, 12, 'kredit', DEFAULT, 200000),
-> (NULL, 105, 13, 'kredit', DEFAULT, 100000),
-> (NULL, 102, 15, 'kredit', DEFAULT, 20000),
-> (NULL, 104, 11, 'debit', DEFAULT, 50000),
-> (NULL, 103, 12, 'debit', DEFAULT, 40000),
-> (NULL, 101, 14, 'kredit', DEFAULT, 50000),
-> (NULL, 103, 12, 'kredit', DEFAULT, 100000),
-> (NULL, 102, 15, 'kredit', DEFAULT, 200000),
-> (NULL, 104, 11, 'debit', DEFAULT, 50000),
-> (NULL, 103, 12, 'debit', DEFAULT, 40000),
-> (NULL, 101, 14, 'debit', DEFAULT, 50000),
-> (NULL, 109, 17, 'debit', DEFAULT, 100000),
-> (NULL, 110, 19, 'debit', DEFAULT, 20000);
Query OK, 20 rows affected (0.193 sec)
Records: 20 Duplicates: 0 Warnings: 0
```

```
MariaDB [perbankan]> select * from transaksi;
```

no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
1	3	105	debit	2020-03-26 06:23:54	50000
2	2	103	debit	2020-03-26 06:23:54	40000
3	4	101	kredit	2020-03-26 06:23:54	20000
4	3	106	debit	2020-03-26 06:23:54	50000
5	5	107	kredit	2020-03-26 06:23:54	30000
6	1	101	kredit	2020-03-26 06:23:54	20000
7	9	110	kredit	2020-03-26 06:23:54	150000
8	5	102	debit	2020-03-26 06:23:54	20000
9	3	105	kredit	2020-03-26 06:23:54	50000
10	4	107	debit	2020-03-26 06:23:54	100000
11	2	103	debit	2020-03-26 06:23:54	100000
12	1	104	debit	2020-03-26 06:23:54	50000
13	4	107	kredit	2020-03-26 06:23:54	200000
14	3	105	debit	2020-03-26 06:23:54	40000
15	1	104	kredit	2020-03-26 06:23:54	100000
16	4	101	kredit	2020-03-26 06:23:54	20000
17	2	103	debit	2020-03-26 06:23:54	50000
18	5	102	debit	2020-03-26 06:23:54	50000
19	10	108	debit	2020-03-26 06:23:54	100000
20	3	106	kredit	2020-03-26 06:23:54	50000
21	2	103	kredit	2020-03-26 06:23:54	200000
22	3	105	kredit	2020-03-26 06:23:54	100000
23	5	102	debit	2020-03-26 06:23:54	20000
24	1	104	debit	2020-03-26 06:23:54	50000
25	2	103	debit	2020-03-26 06:23:54	40000
26	4	101	debit	2020-03-26 06:23:54	50000
27	2	103	kredit	2020-03-26 06:23:54	100000
28	5	102	kredit	2020-03-26 06:23:54	200000
29	7	109	debit	2020-03-26 06:23:54	100000
30	9	110	debit	2020-03-26 06:23:54	20000
31	11	105	debit	2020-03-26 07:59:15	40000
32	11	104	kredit	2020-03-26 07:59:15	100000
33	14	101	kredit	2020-03-26 07:59:15	20000
34	12	103	debit	2020-03-26 07:59:15	50000
35	15	102	debit	2020-03-26 07:59:15	50000
36	20	108	debit	2020-03-26 07:59:15	100000
37	23	106	kredit	2020-03-26 07:59:15	50000
38	12	103	kredit	2020-03-26 07:59:15	200000
39	13	105	kredit	2020-03-26 07:59:15	100000
40	15	102	kredit	2020-03-26 07:59:15	20000
41	11	104	debit	2020-03-26 07:59:15	50000
42	12	103	debit	2020-03-26 07:59:15	40000
43	14	101	kredit	2020-03-26 07:59:15	50000
44	12	103	kredit	2020-03-26 07:59:15	100000
45	15	102	kredit	2020-03-26 07:59:15	200000
46	11	104	debit	2020-03-26 07:59:15	50000
47	12	103	debit	2020-03-26 07:59:15	40000
48	14	101	debit	2020-03-26 07:59:15	50000
49	17	109	debit	2020-03-26 07:59:15	100000
50	19	110	debit	2020-03-26 07:59:15	20000

```
50 rows in set (0.430 sec)
```