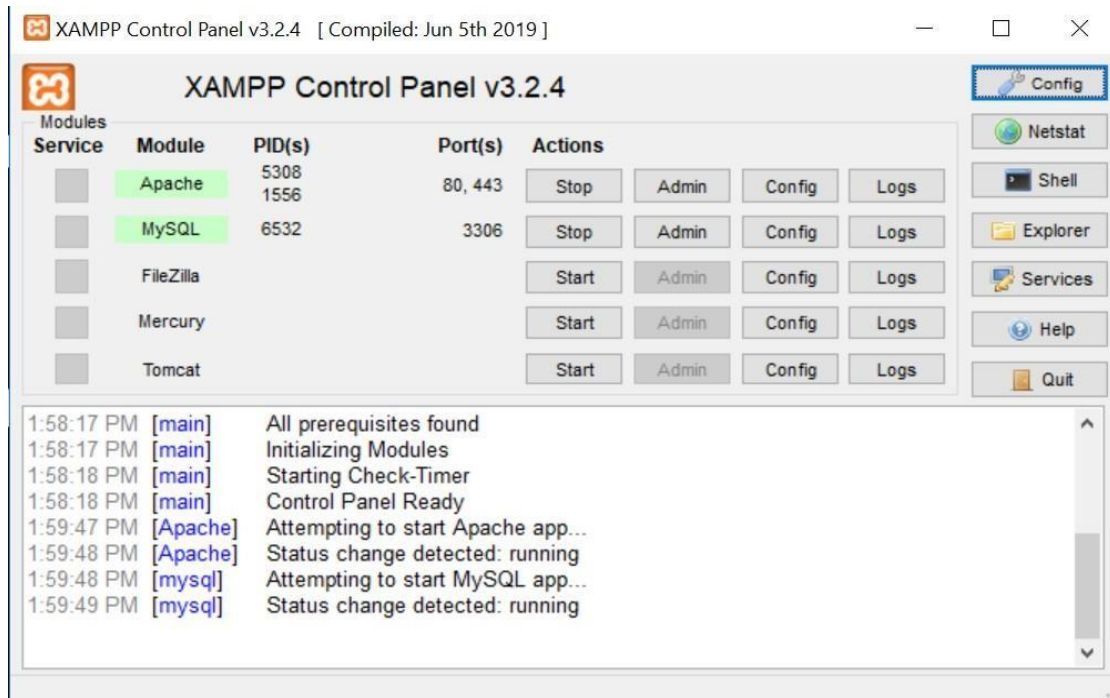**Nama : Bayu Prayitno**
Aji NIM : L200180054
Kelas : C

MODUL 5

- **Kegiatan**

1. Jalankan server XAMPP Control Panel.

2. Buka command Prompt dan login sebagai root ke MySQL

3. Pilih database perbankan dengan perintah "use perbankan". Sehingga akan muncul pemberitahuan "database changed".

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

MariaDB [(none)]> use perbankan;
```

```
Command Prompt - mysql  -u root -p

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> insert into nasabah(id n
```

4. Masukkan data-data berikut:
   - 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');
ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(5,'Budi Eko Prayogo','Jl.Kantil 30');
Query OK, 1 row affected (0.161 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(6,'Satria Eka Jaya','Jl.Slamet Riyadi 45');
Query OK, 1 row affected (0.127 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(7,'Indri Hapsari','Jl.Sutoyo 5');
Query OK, 1 row affected (0.182 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(8,'Sari Murti','Jl.Pangandaran 11');
Query OK, 1 row affected (0.128 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(9,'Canka Lokananta','Jl.Tidar 86');
Query OK, 1 row affected (0.141 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(10,'Budi Murtono','Jl.Merak 22');
Query OK, 1 row affected (0.040 sec)
```

   - cabang_bank

```
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUS','Bank Rut Unit Surakarta','Jl.Slamet Riyadi 18');
Query OK, 1 row affected (0.123 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUM','Bank Rut Unit Magelang','Jl.P. Tendean 63');
Query OK, 1 row affected (0.138 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUB','Bank Rut Unit Boyolali','Jl.Ahmad Yani 45');
Query OK, 1 row affected (0.124 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUK','Bank Rut Unit Klaten','Jl.Suparman 23');
Query OK, 1 row affected (0.124 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUY','Bank Rut Unit Yogyakarta','Jl.Anggrek 21');
Query OK, 1 row affected (0.046 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUW','Bank Rut Unit Wonogiri','Jl.Untung Suropati 12');
Query OK, 1 row affected (0.031 sec)
```

- rekening

```
MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(102,'BRUS',2222,350000);
Query OK, 1 row affected (0.146 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(103,'BRUS',3333,750000);
Query OK, 1 row affected (0.050 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(104,'BRUM',4444,900000);
Query OK, 1 row affected (0.062 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(105,'BRUM',5555,2000000);
Query OK, 1 row affected (0.058 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(106,'BRUS',6666,3000000);
Query OK, 1 row affected (0.141 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(107,'BRUS',7777,1000000);
Query OK, 1 row affected (0.060 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(108,'BRUB',0000,5000000);
Query OK, 1 row affected (0.067 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(109,'BRUB',9999,0);
Query OK, 1 row affected (0.039 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(110,'BRUY',1234,550000);
Query OK, 1 row affected (0.074 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(111,'BRUK',4321,150000);
Query OK, 1 row affected (0.059 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(112,'BRUK',0123,300000);
Query OK, 1 row affected (0.140 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(113,'BRUY',8888,255000);
Query OK, 1 row affected (0.069 sec)
```

- nasabah_has_rekening

```
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(1,104);
Query OK, 1 row affected (0.428 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(2,103);
Query OK, 1 row affected (0.065 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(3,105);
Query OK, 1 row affected (0.052 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(3,106);
Query OK, 1 row affected (0.151 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,101);
Query OK, 1 row affected (0.046 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,107);
Query OK, 1 row affected (0.144 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(5,102);
Query OK, 1 row affected (0.052 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(5,107);
Query OK, 1 row affected (0.096 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(6,109);
Query OK, 1 row affected (0.044 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(7,109);
Query OK, 1 row affected (0.132 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(8,111);
Query OK, 1 row affected (0.261 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(9,110);
Query OK, 1 row affected (0.136 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(10,113);
Query OK, 1 row affected (0.128 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(8,112);
Query OK, 1 row affected (0.156 sec)
```

- transaksi

```
MariaDB [perbankan]> 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),
    -> (7,110,9,'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','2009-12-1',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 (0.335 sec)
Records: 30  Duplicates: 0  Warnings: 0
```

5. Lakukan update untuk kasus-kasus berikut ini
   - nasabah dengan nama "Indri Hapsari" pindah alamat ke "Jalan Slamet Riyadi No.34"

```
Command Prompt - mysql  -u root -p
Query OK, 30 rows affected (0.335 sec)
Records: 30  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 Murtono     | Jl.Merak 22           |
+-----------+------------------+-----------------------+
10 rows in set (0.193 sec)

MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl.Slamet Riyadi 34' where nama_nasabah='Indri Hapsari';
Query OK, 1 row affected (0.090 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 Murtono     | Jl.Merak 22           |
+-----------+------------------+-----------------------+
10 rows in set (0.000 sec)
```

- cabang dengan kode "BRUW" pindah ke alamat "jalan A. Yani No.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 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 (0.122 sec)

MariaDB [perbankan]> update cabang_bank set alamat_cabang='Jl.A. Yani 23' where kode_cabang='BRUW';
Query OK, 1 row affected (0.185 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 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.A. Yani 23        |
| BRUY        | Bank Rut Unit Yogyakarta | Jl.Anggrek 21        |
+-------------+--------------------------+----------------------+
6 rows in set (0.000 sec)
```

6. Lakukan penghapusan untuk kasus-kasus berikut ini.
- 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 Murtono     | Jl.Merak 22            |
+------------+------------------+------------------------+
10 rows in set (0.001 sec)

MariaDB [perbankan]> delete from nasabah where id_nasabah=7;
Query OK, 1 row affected (0.149 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 Murtono     | Jl.Merak 22            |
+------------+------------------+------------------------+
9 rows in set (0.000 sec)
```

- 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 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.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 (0.151 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 23      |
| 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 (0.001 sec)

MariaDB [perbankan]>
```

- **Tugas**
1. Melakukan Record
   - nasabah

```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)value
    -> (11,'Rifqi','Jl.Kenangan 19'),
    -> (12,'Adit','Jl.Tanjung 3'),
    -> (13,'Mahendra','Jl.Anyar 12'),
    -> (14,'Djum','Jl.Layang 17'),
    -> (15,'Kuntet','Jl.panjang 45'),
    -> (16,'Kirun','Jl.panjang 23'),
    -> (17,'Cahyo','Jl.Anyar 7'),
    -> (18,'Purwo','Jl.Lari 30'),
    -> (19,'Nur','Jl.Santai 22'),
    -> (20,'Narto','Jl.Cepat 11');
Query OK, 10 rows affected (0.044 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 | Rifqi            | Jl.Kenangan 19       |
|         12 | Adit             | Jl.Tanjung 3         |
|         13 | Mahendra         | Jl.Anyar 12          |
|         14 | Djum             | Jl.Layang 17         |
|         15 | Kuntet           | Jl.panjang 45        |
|         16 | Kirun            | Jl.panjang 23        |
|         17 | Cahyo            | Jl.Anyar 7           |
|         18 | Purwo            | Jl.Lari 30           |
|         19 | Nur              | Jl.Santai 22         |
|         20 | Narto            | Jl.Cepat 11          |
+------------+------------------+----------------------+
19 rows in set (0.000 sec)
```

- cabang_bank

```
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values
    -> ('BRUP','Bank Rut Unit Pati','Jl. Bersama 4'),
    -> ('BRUN','Bank Rut Unit Nabawi','Jl. Sastro 12'),
    -> ('BRUA','Bank Rut Unit Aceh','Jl. Panjang 34'),
    -> ('BRUC','Bank Rut Unit Cirebon','Jl. Soekarno 12'),
    -> ('BRUH','Bank Rut Unit Hutan','Jl. Pahlawan 2'),
    -> ('BRUD','Bank Rut Unit Dawe','Jl. Jalan 1'),
    -> ('BRUF','Bank Rut Unit Fak','Jl. Kedung 15'),
    -> ('BRUG','Bank Rut Unit Gondo','Jl. Lingkar 45'),
    -> ('BRUJ','Bank Rut Unit Jakarta','Jl. Pahlawan 12'),
    -> ('BRUL','Bank Rut Unit Loram','Jl. Kita 12');
Query OK, 10 rows affected (0.027 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
+-------------+------------------------+---------------------+
| kode_cabang | nama_cabang            | alamat_cabang       |
+-------------+------------------------+---------------------+
| BRUA        | Bank Rut Unit Aceh     | Jl. Panjang 34      |
| BRUB        | Bank Rut Unit Boyolali | Jl.Ahmad Yani 45    |
| BRUC        | Bank Rut Unit Cirebon  | Jl. Soekarno 12     |
| BRUD        | Bank Rut Unit Dawe     | Jl. Jalan 1         |
| BRUF        | Bank Rut Unit Fak      | Jl. Kedung 15       |
| BRUG        | Bank Rut Unit Gondo    | Jl. Lingkar 45      |
| BRUH        | Bank Rut Unit Hutan    | Jl. Pahlawan 2      |
| BRUJ        | Bank Rut Unit Jakarta  | Jl. Pahlawan 12     |
| BRUK        | Bank Rut Unit Klaten   | Jl.Suparman 23      |
| BRUL        | Bank Rut Unit Loram    | Jl. Kita 12         |
| BRUN        | Bank Rut Unit Nabawi   | Jl. Sastro 12       |
| BRUP        | Bank Rut Unit Pati     | Jl. Bersama 4       |
| 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      |
+-------------+------------------------+---------------------+
15 rows in set (0.001 sec)
```

- rekening

```
MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values
    -> (114,'BRUW',3456,2000000),
    -> (115,'BRUP',2444,2560000),
    -> (116,'BRUS',4567,1260000),
    -> (117,'BRUY',6789,5210000);
Query OK, 4 rows affected (0.044 sec)
Records: 4  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values
    -> (118,'BRUK',7890,2210000),
    -> (119,'BRUP',7645,3210000),
    -> (120,'BRUL',6543,4210000),
    -> (121,'BRUN',8765,6710000),
    -> (122,'BRUJ',4680,7710000),
    -> (123,'BRUW',1357,9210000);
Query OK, 6 rows affected (0.033 sec)
Records: 6  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 | BRUW          | 3456 | 2000000 |
|         115 | BRUP          | 2444 | 2560000 |
|         116 | BRUS          | 4567 | 1260000 |
|         117 | BRUY          | 6789 | 5210000 |
|         118 | BRUK          | 7890 | 2210000 |
|         119 | BRUP          | 7645 | 3210000 |
```

```
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 | BRUW         | 3456 |  2000000 |
|         115 | BRUP         | 2444 |  2560000 |
|         116 | BRUS         | 4567 |  1260000 |
|         117 | BRUY         | 6789 |  5210000 |
|         118 | BRUK         | 7890 |  2210000 |
|         119 | BRUP         | 7645 |  3210000 |
|         120 | BRUL         | 6543 |  4210000 |
|         121 | BRUN         | 8765 |  6710000 |
|         122 | BRUJ         | 4680 |  7710000 |
|         123 | BRUW         | 1357 |  9210000 |
+-------------+--------------+------+----------+
23 rows in set (0.001 sec)
```

- nasabah_has_rekening

```
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)value
    -> (11,115),
    -> (12,116),
    -> (13,118),
    -> (14,119),
    -> (15,120),
    -> (16,1117),
    -> (17,117),
    -> (18,122),
    -> (19,121),
    -> (20,124);
Query OK, 10 rows affected (0.114 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 |          115 |
|          12 |          116 |
|          13 |          118 |
|          14 |          119 |
|          15 |          120 |
|          16 |         1117 |
|          17 |          117 |
|          18 |          122 |
|          19 |          121 |
|          20 |          124 |
+-------------+--------------+
25 rows in set (0.001 sec)
```

- transaksi

```
MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)value
    -> (31,104,19,'debit','2020-03-01',200000),
    -> (32,105,9,'debit','2020-03-01',230000),
    -> (33,1117,20,'debit','2020-03-02',130000),
    -> (34,117,10,'debit','2020-03-02',430000),
    -> (35,112,2,'debit','2020-03-03',530000),
    -> (36,111,4,'debit','2020-03-03',1230000),
    -> (37,119,2,'debit','2020-03-03',2330000),
    -> (38,109,13,'debit','2020-03-03',3130000),
    -> (39,102,3,'debit','2020-03-04',530000),
    -> (40,122,8,'Kredit','2020-03-06',240000),
    -> (41,121,6,'Kredit','2020-03-07',740000),
    -> (42,105,1,'Kredit','2020-03-08',950000),
    -> (43,108,9,'Kredit','2020-03-010',6750000),
    -> (44,117,13,'Kredit','2020-03-012',8750000),
    -> (45,118,12,'Kredit','2020-03-015',2550000),
    -> (46,120,14,'Kredit','2020-03-017',1550000),
    -> (47,124,15,'Kredit','2020-03-019',2550000),
    -> (48,113,17,'Debit','2020-03-21',3550000),
    -> (49,112,18,'Debit','2020-03-22',4250000),
    -> (50,111,19,'Debit','2020-03-29',250000);
Query OK, 20 rows affected (0.041 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          | 2009-11-10 00:00:00 |   50000 |
|            2 |           2 |          103 | debit          | 2009-11-10 00:00:00 |   40000 |
|            3 |           4 |          101 | kredit         | 2009-11-12 00:00:00 |   20000 |
|            4 |           3 |          106 | debit          | 2009-11-13 00:00:00 |   50000 |
|            5 |           5 |          107 | kredit         | 2009-11-13 00:00:00 |   30000 |
|            6 |           1 |          104 | kredit         | 2009-11-15 00:00:00 |  200000 |
|            7 |           9 |          110 | kredit         | 2009-11-15 00:00:00 |  150000 |
|            8 |           5 |          102 | debit          | 2009-11-16 00:00:00 |   20000 |
|            9 |           3 |          105 | kredit         | 2009-11-18 00:00:00 |   50000 |
|           10 |           4 |          107 | debit          | 2009-11-19 00:00:00 |  100000 |
|           11 |           2 |          103 | debit          | 2009-11-19 00:00:00 |  100000 |
|           12 |           1 |          104 | debit          | 2009-11-19 00:00:00 |   50000 |
|           13 |           4 |          107 | kredit         | 2009-11-20 00:00:00 |  200000 |
|           14 |           3 |          105 | debit          | 2009-11-21 00:00:00 |   40000 |
|           15 |           1 |          104 | kredit         | 2009-11-22 00:00:00 |  100000 |
|           16 |           4 |          101 | kredit         | 2009-11-22 00:00:00 |   20000 |
|           17 |           2 |          103 | debit          | 2009-11-22 00:00:00 |   50000 |
|           18 |           5 |          102 | debit          | 2009-11-25 00:00:00 |   50000 |
|           19 |          10 |          108 | debit          | 2009-11-26 00:00:00 |  100000 |
|           20 |           3 |          106 | kredit         | 2009-11-27 00:00:00 |   50000 |
|           21 |           2 |          103 | kredit         | 2009-11-28 00:00:00 |  200000 |
|           22 |           3 |          105 | kredit         | 2009-11-28 00:00:00 |  100000 |
|           23 |           5 |          102 | debit          | 2009-11-30 00:00:00 |   20000 |
|           24 |           1 |          104 | debit          | 2009-12-01 00:00:00 |   50000 |
|           25 |           2 |          103 | debit          | 2009-12-02 00:00:00 |   40000 |
|           26 |           4 |          101 | debit          | 2009-12-04 00:00:00 |   50000 |
|           27 |           2 |          103 | kredit         | 2009-12-05 00:00:00 |  100000 |
|           28 |           5 |          102 | kredit         | 2009-12-05 00:00:00 |  200000 |
|           29 |           7 |          109 | debit          | 2009-12-05 00:00:00 |  100000 |
|           30 |           9 |          110 | debit          | 2009-12-06 00:00:00 |   20000 |
|           31 |          19 |          104 | debit          | 2020-03-01 00:00:00 |  200000 |
|           32 |           9 |          105 | debit          | 2020-03-01 00:00:00 |  230000 |
|           33 |          20 |         1117 | debit          | 2020-03-02 00:00:00 |  130000 |
|           34 |          10 |          117 | debit          | 2020-03-02 00:00:00 |  430000 |
|           35 |           2 |          112 | debit          | 2020-03-03 00:00:00 |  530000 |
|           36 |           4 |          111 | debit          | 2020-03-03 00:00:00 | 1230000 |
|           37 |           2 |          119 | debit          | 2020-03-03 00:00:00 | 2330000 |
```

2. Melakukan perintah
   - insert

```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(21,'Jayadi','Jl. Angkring 1');
Query OK, 1 row affected (0.117 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 Murtono     | Jl.Merak 22          |
|         11 | Rifqi            | Jl.Kenangan 19       |
|         12 | Adit             | Jl.Tanjung 3         |
|         13 | Mahendra         | Jl.Anyar 12          |
|         14 | Djum             | Jl.Layang 17         |
|         15 | Kuntet           | Jl.panjang 45        |
|         16 | Kirun            | Jl.panjang 23        |
|         17 | Cahyo            | Jl.Anyar 7           |
|         18 | Purwo            | Jl.Lari 30           |
|         19 | Nur              | Jl.Santai 22         |
|         20 | Narto            | Jl.Cepat 11          |
|         21 | Jayadi           | Jl. Angkring 1       |
+------------+------------------+----------------------+
20 rows in set (0.000 sec)
```

- update

```
MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl.Satu 12' where id_nasabah=21;
Query OK, 1 row affected (0.120 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  |
|          8 | Sari Murti       | Jl.Pangandaran 11    |
|          9 | Canka Lokananta  | Jl.Tidar 86          |
|         10 | Budi Murtono     | Jl.Merak 22          |
|         11 | Rifqi            | Jl.Kenangan 19       |
|         12 | Adit             | Jl.Tanjung 3         |
|         13 | Mahendra         | Jl.Anyar 12          |
|         14 | Djum             | Jl.Layang 17         |
|         15 | Kuntet           | Jl.panjang 45        |
|         16 | Kirun            | Jl.panjang 23        |
|         17 | Cahyo            | Jl.Anyar 7           |
|         18 | Purwo            | Jl.Lari 30           |
|         19 | Nur              | Jl.Santai 22         |
|         20 | Narto            | Jl.Cepat 11          |
|         21 | Jayadi           | Jl.Satu 12           |
+------------+------------------+----------------------+
20 rows in set (0.000 sec)
```

- delete

```
MariaDB [perbankan]> delete from nasabah where id_nasabah=21;
Query OK, 1 row affected (0.119 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 Murtono     | Jl.Merak 22          |
|         11 | Rifqi            | Jl.Kenangan 19       |
|         12 | Adit             | Jl.Tanjung 3         |
|         13 | Mahendra         | Jl.Anyar 12          |
|         14 | Djum             | Jl.Layang 17         |
|         15 | Kuntet           | Jl.panjang 45        |
|         16 | Kirun            | Jl.panjang 23        |
|         17 | Cahyo            | Jl.Anyar 7           |
|         18 | Purwo            | Jl.Lari 30           |
|         19 | Nur              | Jl.Santai 22         |
|         20 | Narto            | Jl.Cepat 11          |
+------------+------------------+----------------------+
19 rows in set (0.000 sec)

MariaDB [perbankan]> _
```