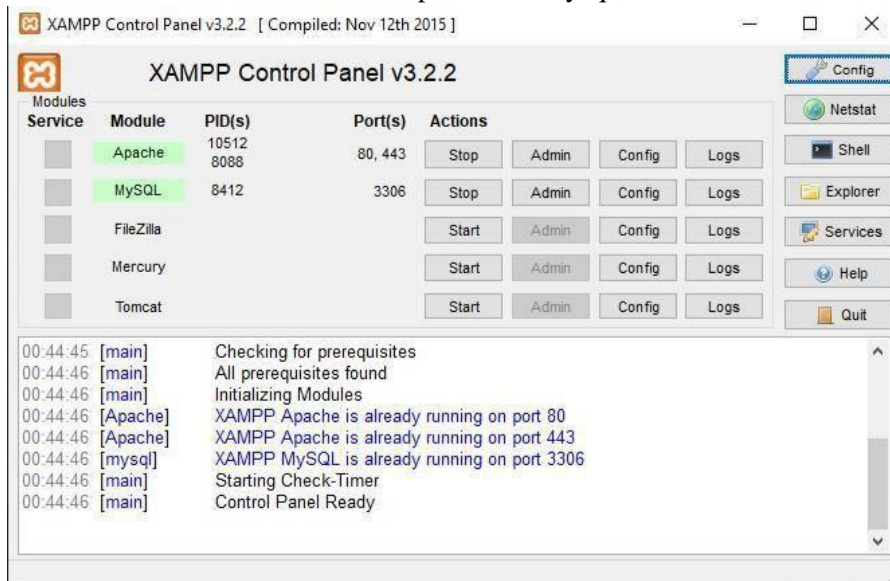Nama   : Kemas Muhammad Kevin
NIM   : L200184033
Kelas   : H

Modul   5

LATIHAN :

1. Buka XAMPP , lalu aktifkan server apache dan mysql,

2. setelah itu masuk ke cmd dan login sebagai root ke mysql

3. tampilkan table database, lalu pilih/ masuk ke databse perbankan


```
MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| boking             |
| datakost           |
| gayo               |
| information_schema |
| kuliner            |
| laravel            |
| latihan_crud       |
| login              |
| mylink             |
| mysql              |
| perbankan          |
| percobaan          |
| performance_schema |
| phpmyadmin         |
| sma 1 dayun        |
| test               |
| university         |
+--------------------+
17 rows in set (0.18 sec)

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

4. kemudian masukan data yang diperintahkan

❖ insert table nasabah


```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(1,'Sutopo','Jl. Jendral Sudirman 12');
Query OK, 1 row affected (0.21 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(2,'Maryati','Jl. MT.Haryono 31');
Query OK, 1 row affected (0.13 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(3,'Suparman','Jl. Hasanudin 81');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(4,'Kartika Padmasari','Jl. Manggis 15');
Query OK, 1 row affected (0.13 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(5,'Budi Eko Prayogo','Jl. Kantil 30');
Query OK, 1 row affected (0.06 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 (0.17 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(7,'Indri Hapsari','Jl. Sutoyo 5');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(8,'Sari Murti','Jl. Pangandaran 11');
Query OK, 1 row affected (0.17 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(9,'Canka Loknanta','Jl. Tidar 86');
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(10,'Budi Murtono','Jl. Merak 22');
Query OK, 1 row affected (0.10 sec)
```

❖ insert table cabang_bank


```
Command Prompt - mysql  -u root -p
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 (0.10 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 (0.17 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 (0.10 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 (0.11 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 (0.04 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 (0.06 sec)

MariaDB [perbankan]> insert into rekening/\values('');
```

❖ insert table rekening

❖ insert table nasabah_has_rekening

❖ insert table transaksi


```
Query OK, 1 row affected (0.17 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(1,105,3,'debit','2019-11-10',50000);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(2,103,2,'debit','2019-11-10',40000);
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(3,101,4,'kredit','2019-11-12',20000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(4,106,3,'debit','2019-11-13',30000);
Query OK, 1 row affected (0.17 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(5,107,5,'kredit','2019-11-13',30000);
Query OK, 1 row affected (0.21 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(6,104,1,'kredit','2019-11-15',200000);
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(7,110,9,'kredit','2019-11-15',150000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(8,102,5,'debit','2019-11-16',20000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(9,105,3,'kredit','2019-11-18',50000);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(10,107,4,'debit','2019-11-19',100000);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(11,103,2,'debit','2019-11-19',100000);
Query OK, 1 row affected (0.12 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(12,104,1,'debit','2019-11-19',50000);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(13,107,4,'kredit','2019-11-20',200000);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(14,105,3,'debit','2019-11-21',40000);
Query OK, 1 row affected (0.06 sec)
```

```
MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(14,105,3,'debit','2019-11-21',40000);
Query OK, 1 row affected (0.06 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(15,104,1,'kredit','2019-11-22',100000);
Query OK, 1 row affected (0.19 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(16,101,4,'kredit','2019-11-22',20000);
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(17,103,2,'debit','2019-11-22',50000);
Query OK, 1 row affected (0.18 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(18,102,5,'debit','2019-11-25',50000);
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(19,108,10,'debit','2019-11-26',100000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(20,106,3,'kredit','2019-11-27',50000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(21,103,2,'kredit','2019-11-28',200000);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(22,105,3,'kredit','2019-11-28',100000);
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(23,102,5,'debit','2019-11-30',20000);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(24,104,1,'debit','2019-11-1',50000);
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(25,103,2,'debit','2019-11-2',40000);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(26,101,4,'debit','2019-12-4',50000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(27,103,2,'kredit','2019-12-5',100000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]>
```

```
MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(28,102,5,'kredit','2019-12-5',200000);
Query OK, 1 row affected (0.33 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(29,109,7,'debit','2019-12-5',100000);
Query OK, 1 row affected (0.09 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(30,110,9,'debit','2019-12-6',20000);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]>
```

5. Lakukan update untuk kasus berikut

☐

Nasabah dengan nama "Indri Hapsari " pindah alamat ke "Jalan Slamet Riyadi No.34" * Sebelum

```
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 Loknanta   | Jl. Tidar 86             |
|         10 | Budi Murtono     | Jl. Merak 22             |
+------------+------------------+--------------------------+
10 rows in set (0.05 sec)

MariaDB [perbankan]>
```

☐ *Sesudah

```
30 rows in set (0.00 sec)

MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl. Slamet Riyadi 34' where nama_nasabah='Indri Hapsari';
Query OK, 1 row affected (0.13 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 Loknanta   | Jl. Tidar 86             |
|         10 | Budi Murtono     | Jl. Merak 22             |
+------------+------------------+--------------------------+
10 rows in set (0.00 sec)

MariaDB [perbankan]>
```

□

Cabang dengan kode "BRUW" pindah ke alamat "Jalan A. Yani No.23"

- Sebelum

- Sesudah

6. Lakukan penghapusan untuk kasus berik ut

   □ Nasabah dengan id "7" menutup rekeningnya

   ● Sebelum

```
30 rows in set (0.00 sec)

MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl. Slamet Riyadi 34' where nama_nasabah='Indri Hapsari';
Query OK, 1 row affected (0.13 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 Loknanta  | Jl. Tidar 86          |
|        10 | Budi Murtono    | Jl. Merak 22          |
+-----------+------------------+------------------------+
10 rows in set (0.00 sec)

MariaDB [perbankan]>
```

   ● Sesudah

```
MariaDB [perbankan]> delete from nasabah where id_nasabah=7;
Query OK, 1 row affected (0.08 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 Loknanta  | Jl. Tidar 86          |
|        10 | Budi Murtono    | Jl. Merak 22          |
+-----------+------------------+------------------------+
9 rows in set (0.00 sec)

MariaDB [perbankan]>
```

◻ Cabang dengan nama_cabang "Bank Rut Unit Magelang" menutup Kantornya

- Sebelum

```
MariaDB [perbankan]> update cabang_bank set  alamat_cabang='Jl. A. Yani 23' where kode_cabang='BRUW';
Query OK, 1 row affected (0.11 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 (0.00 sec)

MariaDB [perbankan]>
```

- Sesudah

```
MariaDB [perbankan]> delete from cabang_bank where nama_cabang='Bank Rut Unit Magelang';
Query OK, 1 row affected (0.16 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 (0.00 sec)

MariaDB [perbankan]> _
```

Tugas

1. Record tabel nasabah

```
(14, suherman , Jl.   at line 5
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values
    -> (11,'khoir','Jl. Mawar 10'),
    -> (12,'khoirudin','Jl. Mawar 20'),
    -> (13,'conv','Jl. Melati 20'),
    -> (14,'suherman','Jl. Melati 30'),
    -> (15,'rohmad','Jl. Sudirman 30'),
    -> (16,'idfi','Jl. Soeharto 12'),
    -> (17,'sari','Jl. Soeharto 15'),
    -> (18,'lia','Jl. Soekarno 13'),
    -> (19,'asri','Jl. broto 8'),
    -> (20,'ikhsani','Jl. gatot 9');
Query OK, 10 rows affected (0.20 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 Loknanta   | Jl. Tidar 86         |
|         10 | Budi Murtono     | Jl. Merak 22         |
|         11 | khoir            | Jl. Mawar 10         |
|         12 | khoirudin        | Jl. Mawar 20         |
|         13 | conv             | Jl. Melati 20        |
|         14 | suherman         | Jl. Melati 30        |
|         15 | rohmad           | Jl. Sudirman 30      |
|         16 | idfi             | Jl. Soeharto 12      |
|         17 | sari             | Jl. Soeharto 15      |
|         18 | lia              | Jl. Soekarno 13      |
|         19 | asri             | Jl. broto 8          |
|         20 | ikhsani          | Jl. gatot 9          |
+------------+------------------+----------------------+
19 rows in set (0.04 sec)
```

2. Record tabel cabang_bank

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values
    -> ('BRUA','Bank Rut Unit Andalas','Jl. Sugeng 16'),
    -> ('BRUP','Bank Rut Unit Padang','Jl. Ampera 13'),
    -> ('BRUT','Bank Rut Unit Tegal','Jl. Soepomo 15'),
    -> ('BRUN','Bank Rut Unit Ngawi','Jl. Anggrek 19'),
    -> ('BRUC','Bank Rut Unit Cikampek','Jl. Soeharto 17'),
    -> ('BRUL','Bank Rut Unit Lord','Jl. Mawar 18'),
    -> ('BRUD','Bank Rut Unit Dilo','Jl. Sudirman 12'),
    -> ('BRUF','Bank Rut Unit Fasio','Jl. Soeharto 11'),
    -> ('BRUG','Bank Rut Unit Gempolo','Jl. Melati 13'),
    -> ('BRUH','Bank Rut Unit Hasbon','Jl. Hangtuah 15');
Query OK, 10 rows affected (0.14 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
+-------------+-------------------------+----------------------+
| kode_cabang | nama_cabang             | alamat_cabang        |
+-------------+-------------------------+----------------------+
| BRUA        | Bank Rut Unit Andalas   | Jl. Sugeng 16        |
| BRUB        | Bank Rut Unit Boyolali  | Jl. Ahmad Yani 45    |
| BRUC        | Bank Rut Unit Cikampek  | Jl. Soeharto 17      |
| BRUD        | Bank Rut Unit Dilo      | Jl. Sudirman 12      |
| BRUF        | Bank Rut Unit Fasio     | Jl. Soeharto 11      |
| BRUG        | Bank Rut Unit Gempolo   | Jl. Melati 13        |
| BRUH        | Bank Rut Unit Hasbon    | Jl. Hangtuah 15      |
| BRUK        | Bank Rut Unit Klaten    | Jl. Suparman 23      |
| BRUL        | Bank Rut Unit Lord      | Jl. Mawar 18         |
| BRUN        | Bank Rut Unit Ngawi     | Jl. Anggrek 19       |
| BRUP        | Bank Rut Unit Padang    | Jl. Ampera 13        |
| BRUS        | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUT        | Bank Rut Unit Tegal     | Jl. Soepomo 15       |
| BRUW        | Bank Rut Unit Wonogiri  | Jl. A. Yani 23       |
| BRUY        | Bank Rut Unit Yogyakarta| Jl. Anggrek 21       |
+-------------+-------------------------+----------------------+
15 rows in set (0.00 sec)

MariaDB [perbankan]> _
```

3. Record tabel rekening

```
Command Prompt - mysql -u root -p
+-------------+--------------------------------+----------------------+
15 rows in set (0.00 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values
    -> (114,'BRUA',2345,1000000),
    -> (115,'BRUB',3456,2000000),
    -> (116,'BRUB',4567,3000000),
    -> (117,'BRUS',5678,4000000),
    -> (118,'BRUG',6789,5000000),
    -> (119,'BRUA',7890,6000000),
    -> (120,'BRUY',1357,7000000),
    -> (121,'BRUK',2468,8000000),
    -> (122,'BRUF',1290,9000000),
    -> (123,'BRUH',1290,10000000);
Query OK, 10 rows affected (0.12 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankan]> select * from rekening;
+-------------+--------------+---------+----------+
| no_rekening | kode_cabang  | pin     | saldo    |
+-------------+--------------+---------+----------+
|         101 | BRUS         | 1111    |   500000 |
|         102 | BRUS         | 2222    |   350000 |
|         103 | BRUS         | 3333    |   750000 |
|         104 | BRUM         | 4444    |   900000 |
|         105 | BRUM         | 55555   |  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 | BRUA         | 2345    |  1000000 |
|         115 | BRUB         | 3456    |  2000000 |
|         116 | BRUB         | 4567    |  3000000 |
|         117 | BRUS         | 5678    |  4000000 |
|         118 | BRUG         | 6789    |  5000000 |
|         119 | BRUA         | 7890    |  6000000 |
|         120 | BRUY         | 1357    |  7000000 |
|         121 | BRUK         | 2468    |  8000000 |
|         122 | BRUF         | 1290    |  9000000 |
|         123 | BRUH         | 1290    | 10000000 |
+-------------+--------------+---------+----------+
23 rows in set (0.00 sec)

MariaDB [perbankan]>
```

4. Record tabel 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);
Query OK, 10 rows affected (0.09 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 |           106 |
|            4 |           107 |
|            5 |           102 |
|            5 |           107 |
|            6 |           109 |
|            7 |           109 |
|            8 |           111 |
|            8 |           112 |
|            9 |           110 |
|           10 |           108 |
|           10 |           113 |
|           11 |           114 |
|           12 |           115 |
|           13 |           116 |
|           14 |           117 |
|           15 |           118 |
|           16 |           119 |
|           17 |           120 |
|           18 |           121 |
|           19 |           122 |
|           20 |           123 |
+--------------+---------------+
26 rows in set (0.00 sec)

MariaDB [perbankan]> _
```

5. Record transaksi

```
MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values
    -> (31,114,11,'debit','2020-01-11',100000),
    -> (32,114,11,'kredit','2020-01-11',50000),
    -> (33,115,12,'debit','2020-01-22',200000),
    -> (34,115,12,'kredit','2020-01-24',50000),
    -> (35,116,13,'debit','2020-01-26',300000),
    -> (36,116,13,'kredit','2020-01-28',50000),
    -> (37,117,14,'debit','2020-02-01',400000),
    -> (38,117,14,'kredit','2020-02-03',50000),
    -> (39,118,15,'debit','2020-02-05',500000),
    -> (40,118,15,'kredit','2020-02-07',50000),
    -> (41,119,16,'debit','2020-02-09',600000),
    -> (42,119,16,'kredit','2020-02-11',50000),
    -> (43,120,17,'debit','2020-02-13',700000),
    -> (44,120,17,'kredit','2020-02-15',50000),
    -> (45,121,18,'debit','2020-02-17',800000),
    -> (46,121,18,'kredit','2020-02-19',50000),
    -> (47,122,19,'debit','2020-03-05',900000),
    -> (48,122,19,'kredit','2020-03-25',50000),
    -> (49,123,20,'debit','2020-03-09',1000000),
    -> (50,123,20,'kredit','2020-03-29',500000);
Query OK, 20 rows affected (0.11 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           | 2019-11-10 00:00:00 |   50000 |
|            2 |            2 |          103 | debit           | 2019-11-10 00:00:00 |   40000 |
|            3 |            4 |          101 | kredit          | 2019-11-12 00:00:00 |   20000 |
|            4 |            3 |          106 | debit           | 2019-11-13 00:00:00 |   30000 |
|            5 |            5 |          107 | kredit          | 2019-11-13 00:00:00 |   30000 |
|            6 |            1 |          104 | kredit          | 2019-11-15 00:00:00 |  200000 |
|            7 |            9 |          110 | kredit          | 2019-11-15 00:00:00 |  150000 |
|            8 |            5 |          102 | debit           | 2019-11-16 00:00:00 |   20000 |
|            9 |            3 |          105 | kredit          | 2019-11-18 00:00:00 |   50000 |
|           10 |            4 |          107 | debit           | 2019-11-19 00:00:00 |  100000 |
|           11 |            2 |          103 | debit           | 2019-11-19 00:00:00 |  100000 |
|           12 |            1 |          104 | debit           | 2019-11-19 00:00:00 |   50000 |
|           13 |            4 |          107 | kredit          | 2019-11-20 00:00:00 |  200000 |
|           14 |            3 |          105 | debit           | 2019-11-21 00:00:00 |   40000 |
|           15 |            1 |          104 | kredit          | 2019-11-22 00:00:00 |  100000 |
|           16 |            4 |          101 | kredit          | 2019-11-22 00:00:00 |   20000 |
|           17 |            2 |          103 | debit           | 2019-11-22 00:00:00 |   50000 |
|           18 |            5 |          102 | debit           | 2019-11-25 00:00:00 |   50000 |
|           19 |           10 |          108 | debit           | 2019-11-26 00:00:00 |  100000 |
|           20 |            3 |          106 | kredit          | 2019-11-27 00:00:00 |   50000 |
|           21 |            2 |          103 | kredit          | 2019-11-28 00:00:00 |  200000 |
|           22 |            3 |          105 | kredit          | 2019-11-28 00:00:00 |  100000 |
|           23 |            5 |          102 | debit           | 2019-11-30 00:00:00 |   20000 |
|           24 |            1 |          104 | debit           | 2019-12-01 00:00:00 |   50000 |
|           25 |            2 |          103 | debit           | 2019-12-02 00:00:00 |   40000 |
|           26 |            4 |          101 | debit           | 2019-12-04 00:00:00 |   50000 |
|           27 |            2 |          103 | kredit          | 2019-12-05 00:00:00 |  100000 |
|           28 |            5 |          102 | kredit          | 2019-12-05 00:00:00 |  200000 |
|           29 |            7 |          109 | debit           | 2019-12-05 00:00:00 |  100000 |
|           30 |            9 |          110 | debit           | 2019-12-06 00:00:00 |   20000 |
|           31 |           11 |          114 | debit           | 2020-01-11 00:00:00 |  100000 |
|           32 |           11 |          114 | kredit          | 2020-01-11 00:00:00 |   50000 |
|           33 |           12 |          115 | debit           | 2020-01-22 00:00:00 |  200000 |
|           34 |           12 |          115 | kredit          | 2020-01-24 00:00:00 |   50000 |
|           35 |           13 |          116 | debit           | 2020-01-26 00:00:00 |  300000 |
|           36 |           13 |          116 | kredit          | 2020-01-28 00:00:00 |   50000 |
|           37 |           14 |          117 | debit           | 2020-02-01 00:00:00 |  400000 |
|           38 |           14 |          117 | kredit          | 2020-02-03 00:00:00 |   50000 |
|           39 |           15 |          118 | debit           | 2020-02-05 00:00:00 |  500000 |
|           40 |           15 |          118 | kredit          | 2020-02-07 00:00:00 |   50000 |
|           41 |           16 |          119 | debit           | 2020-02-09 00:00:00 |  600000 |
|           42 |           16 |          119 | kredit          | 2020-02-11 00:00:00 |   50000 |
|           43 |           17 |          120 | debit           | 2020-02-13 00:00:00 |  700000 |
|           44 |           17 |          120 | kredit          | 2020-02-15 00:00:00 |   50000 |
|           45 |           18 |          121 | debit           | 2020-02-17 00:00:00 |  800000 |
|           46 |           18 |          121 | kredit          | 2020-02-19 00:00:00 |   50000 |
|           47 |           19 |          122 | debit           | 2020-03-05 00:00:00 |  900000 |
|           48 |           19 |          122 | kredit          | 2020-03-25 00:00:00 |   50000 |
|           49 |           20 |          123 | debit           | 2020-03-09 00:00:00 | 1000000 |
|           50 |           20 |          123 | kredit          | 2020-03-29 00:00:00 |  500000 |
+--------------+--------------+--------------+-----------------+---------------------+---------+
50 rows in set (0.00 sec)
```