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## **Modul 5**

### **Langkah praktikum :**

1. Jalankan XAMPP Control Panel
2. Jalankan server apache dan mysql
3. Buka cmd dan login sebagai root ke MySQL
4. Pilih database perbankan dengan perintah “use perbankan” sehingga muncul pemberitahuan “database changed”
5. Kemudian masukkan data – data ke dalam database perbankan

### **Tabel nasabah**

```
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(2, 'Maryati', 'Jl. MT. Haryono31');
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(3, 'Suparman', 'Jl. Hasanudin8 1');
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(4, 'Kartika Padmasari', 'Jl. Manggis 15');
Query OK, 1 row affected (0.055 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 (0.056 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 (0.056 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(7, 'Indri Hapsari', 'Jl. Sutoyo 5');
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(8, 'Sari Murti', 'Jl. Pangandaran 11');
Query OK, 1 row affected (0.055 sec)

MariaDB [perbankan]> SELECT *FROM nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 2 | Maryati | Jl. MT. Haryono31 |
| 3 | Suparman | Jl. Hasanudin8 1 |
| 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 (0.001 sec)
```

## Tabel rekening

```
Select Command Prompt - mysql -u root -p
ERROR 1054 (42S22): Unknown column 'kode_cabang' in 'field list'
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(101, 'BRUS', 1111, 500000);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(102, 'BRUS', 2222, 350000);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(103, 'BRUS', 3333, 750000);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(104, 'BRUM', 4444, 900000);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(105, 'BRUM', 5555, 2000000);
Query OK, 1 row affected (0.003 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(106, 'BRUS', 6666, 3000000);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(107, 'BRUS', 7777, 1000000);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(108, 'BRUB', 8888, 5000000);
Query OK, 1 row affected (0.055 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(109, 'BRUB', 9999, 0);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(110, 'BRUY', 1234, 550000);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(111, 'BRUK', 4321, 150000);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(112, 'BRUK', 0123, 300000);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(113, 'BRYK', 7878, 255000);
Query OK, 1 row affected (0.056 sec)

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 | 8888 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 0123 | 300000 |
| 113 | BRYK | 7878 | 255000 |
+-----+-----+-----+-----+
13 rows in set (0.001 sec)
```

## Tabel nasabah\_has\_rekening

```
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(7, 109);
Query OK, 1 row affected (0.055 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(8, 111);
Query OK, 1 row affected (0.055 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(9, 110);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(10, 113);
Query OK, 1 row affected (0.055 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(8, 112);
Query OK, 1 row affected (0.055 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(10, 108);
Query OK, 1 row affected (0.042 sec)

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 (0.001 sec)
```

## Tabel 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 (0.059 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 (0.056 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 (0.002 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUK', 'Bank Rut Unit Klaten', 'Jl. Superman 23');
Query OK, 1 row affected (0.057 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 (0.058 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 (0.056 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. Superman 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 (0.001 sec)
```

Tabel transaksi

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
-> VALUE(21, 103, 2, 'kredit', 2009-11-28, 200000);
Query OK, 1 row affected, 1 warning (0.055 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
-> VALUE(22, 105, 3, 'kredit', 2009-11-28, 100000);
Query OK, 1 row affected, 1 warning (0.056 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
-> VALUE(23, 102, 5, 'debit', 2009-11-30, 20000);
Query OK, 1 row affected, 1 warning (0.055 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
-> VALUE(24, 104, 1, 'debit', 2009-12-01, 50000);
Query OK, 1 row affected, 1 warning (0.056 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
-> VALUE(25, 103, 2, 'debit', 2009-12-02, 40000);
Query OK, 1 row affected, 1 warning (0.056 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
-> VALUE(26, 101, 4, 'debit', 2009-12-04, 50000);
Query OK, 1 row affected, 1 warning (0.056 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
-> VALUE(27, 103, 2, 'kredit', 2009-12-05, 100000);
Query OK, 1 row affected, 1 warning (0.056 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
-> VALUE(28, 102, 5, 'kredit', 2009-12-05, 200000);
Query OK, 1 row affected, 1 warning (0.055 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
-> VALUE(29, 109, 7, 'debit', 2009-12-05, 100000);
Query OK, 1 row affected, 1 warning (0.055 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
-> VALUE(30, 110, 9, 'debit', 2009-12-06, 20000);
Query OK, 1 row affected, 1 warning (0.055 sec)
```

```
MariaDB [perbankan]> SELECT *FROM transaksi;
```

no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
1	105	3	debit	0000-00-00 00:00:00	50000
2	103	2	debit	0000-00-00 00:00:00	40000
3	101	4	kredit	0000-00-00 00:00:00	20000
4	106	3	debit	0000-00-00 00:00:00	50000
5	107	5	kredit	0000-00-00 00:00:00	30000
6	104	1	kredit	0000-00-00 00:00:00	200000
7	110	9	kredit	0000-00-00 00:00:00	150000
8	102	5	debit	0000-00-00 00:00:00	20000
9	105	3	kredit	0000-00-00 00:00:00	50000
10	107	4	debit	0000-00-00 00:00:00	100000
11	103	2	debit	0000-00-00 00:00:00	100000
12	104	1	debit	0000-00-00 00:00:00	50000
13	107	4	kredit	0000-00-00 00:00:00	200000
14	105	3	debit	0000-00-00 00:00:00	400000
15	104	1	kredit	0000-00-00 00:00:00	100000
16	101	4	kredit	0000-00-00 00:00:00	20000
17	103	2	debit	0000-00-00 00:00:00	50000
18	102	5	debit	0000-00-00 00:00:00	50000
19	106	3	kredit	0000-00-00 00:00:00	100000
20	108	10	debit	0000-00-00 00:00:00	50000
21	103	2	kredit	0000-00-00 00:00:00	200000
22	105	3	kredit	0000-00-00 00:00:00	100000
23	102	5	debit	0000-00-00 00:00:00	20000
24	104	1	debit	0000-00-00 00:00:00	50000
25	103	2	debit	0000-00-00 00:00:00	40000
26	101	4	debit	0000-00-00 00:00:00	50000
27	103	2	kredit	0000-00-00 00:00:00	100000
28	102	5	kredit	0000-00-00 00:00:00	200000
29	109	7	debit	0000-00-00 00:00:00	100000
30	110	9	debit	0000-00-00 00:00:00	20000

30 rows in set (0.001 sec)



wish you were gay  
Billie Eilish



wish you were gay  
Billie Eilish



6. Lakukan update untuk kasus – kasus berikut

- a. Nasabah dengan nama “Indri Hapsari” pindah ke alamat “Jl. Slamet Riyadi 34”
- b. Cabang dengan kode “BRUW” pindah ke alamat “Jl. Ahmad Yani 23”

```
MariaDB [perbankan]> UPDATE nasabah
  -> SET alamat_nasabah = 'Jl.Slamet Riyadi 34'
  -> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.056 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+-----+
5 rows in set (0.001 sec)

MariaDB [perbankan]> UPDATE cabang_bank
  -> SET alamat_cabang = 'Jl. Ahmad Yani 23'
  -> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.057 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

7. Lakukan penghapusan untuk kasus – kasus berikut

- a. Nasabah dengan id 7 menutup rekeningnya
- b. Cabang dengan nama\_cabang “Bank Rut Unit Magelang” menutup kantornya

```
MariaDB [perbankan]> DELETE FROM nasabah
  -> WHERE id_nasabah = 7;
Query OK, 1 row affected (0.055 sec)

MariaDB [perbankan]> DELETE FROM cabang_bank
  -> WHERE nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.058 sec)

MariaDB [perbankan]>
```

## Tugas :

Masukkan beberapa record ke setiap table dalam database!

### Insert record nasabah

```
MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah,nama_nasabah,alamat_nasabah) VALUES (12,'Dila','Wonogiri');
Query OK, 1 row affected (0.087 sec)

MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah,nama_nasabah,alamat_nasabah) VALUES (13,'Retno','Wonogiri');
Query OK, 1 row affected (0.099 sec)

MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah,nama_nasabah,alamat_nasabah) VALUES (14,'Chaterina','Wonogiri');
Query OK, 1 row affected (0.082 sec)

MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah,nama_nasabah,alamat_nasabah) VALUES (15,'Siti','Wonogiri');
Query OK, 1 row affected (0.083 sec)

MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah,nama_nasabah,alamat_nasabah) VALUES (16,'Srinatun','Wonogiri');
Query OK, 1 row affected (0.085 sec)

MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah,nama_nasabah,alamat_nasabah) VALUES (17,'Hanifah','Solo');
Query OK, 1 row affected (0.333 sec)

MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah,nama_nasabah,alamat_nasabah) VALUES (18,'Damar','Solo');
Query OK, 1 row affected (0.088 sec)

MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah,nama_nasabah,alamat_nasabah) VALUES (19,'Rohana','Solo');
Query OK, 1 row affected (0.096 sec)

MariaDB [perbankan]> INSERT INTO nasabah (id_nasabah,nama_nasabah,alamat_nasabah) VALUES (20,'Saidah','Solo');
Query OK, 1 row affected (0.087 sec)

MariaDB [perbankan]>

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 | Pasha | Wonogiri |
| 12 | Dila | Wonogiri |
| 13 | Retno | Wonogiri |
| 14 | Chaterina | Wonogiri |
| 15 | Siti | Wonogiri |
| 16 | Srinatun | Wonogiri |
| 17 | Hanifah | Solo |
| 18 | Damar | Solo |
| 19 | Rohana | Solo |
| 20 | Saidah | Solo |
+-----+-----+-----+
19 rows in set (0.001 sec)

MariaDB [perbankan]>
```

## Insert record rekening

```
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (114,BRUA,2345,500000);
ERROR 1054 (42S22): Unknown column 'BRUA' in 'field list'
MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (114,'BRUA',2345,500000);
Query OK, 1 row affected (0.063 sec)

MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (115,'BRUN',5345,100000);
Query OK, 1 row affected (0.052 sec)

MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (116,'BRUJ',5395,900000);
Query OK, 1 row affected (0.120 sec)

MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (117,'BRUK',5394,560000);
Query OK, 1 row affected (0.090 sec)

MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (118,'BRUL',5332,890000);
Query OK, 1 row affected (0.085 sec)

MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (119,'BRUM',5123,230000);
Query OK, 1 row affected (0.094 sec)

MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (120,'BRUY',3243,600000);
Query OK, 1 row affected (0.088 sec)

MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (120,'BRUY',1233,750000);
ERROR 1062 (23000): Duplicate entry '120' for key 'PRIMARY'
MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (121,'BRUN',1233,750000);
Query OK, 1 row affected (0.085 sec)

MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (122,'BRUB',1457,670000);
Query OK, 1 row affected (0.088 sec)

MariaDB [perbankan]> INSERT INTO rekening (no_rekening,kode_cabangFK,pin,saldo) VALUES (123,'BRUN',1534,320000);
Query OK, 1 row affected (0.073 sec)
```

```
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 | BRUA | 2345 | 500000 |
| 115 | BRUN | 5345 | 100000 |
| 116 | BRUJ | 5395 | 900000 |
| 117 | BRUK | 5394 | 560000 |
| 118 | BRUL | 5332 | 890000 |
| 119 | BRUM | 5123 | 230000 |
| 120 | BRUY | 3243 | 600000 |
| 121 | BRUN | 1233 | 750000 |
| 122 | BRUB | 1457 | 670000 |
| 123 | BRUM | 1534 | 320000 |
+-----+-----+-----+-----+
23 rows in set (0.073 sec)
```

## Insert record nasabah\_has\_rekening

```
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK,no_rekeningFK) VALUES (11,114);
Query OK, 1 row affected (0.107 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK,no_rekeningFK) VALUES (12,115);
Query OK, 1 row affected (0.047 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK,no_rekeningFK) VALUES (13,116);
Query OK, 1 row affected (0.116 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK,no_rekeningFK) VALUES (14,117);
Query OK, 1 row affected (0.043 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK,no_rekeningFK) VALUES (15,118);
Query OK, 1 row affected (0.081 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK,no_rekeningFK) VALUES (16,119);
Query OK, 1 row affected (0.090 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK,no_rekeningFK) VALUES (17,120);
Query OK, 1 row affected (0.089 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK,no_rekeningFK) VALUES (18,121);
Query OK, 1 row affected (0.054 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK,no_rekeningFK) VALUES (19,122);
Query OK, 1 row affected (0.079 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening (id_nasabahFK,no_rekeningFK) VALUES (20,123);
Query OK, 1 row affected (0.084 sec)
```

```
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	114
12	115
13	116
14	117
15	118
16	119
17	120
18	121
19	122
20	123

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

```
MariaDB [perbankan]>
```



## Insert record transaksi

Command Prompt - mysql -u root -p

```
MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (31, 114, 11,'debit','2020-03-26',90000);
Query OK, 1 row affected (0.110 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (32, 115, 12,'debit','2020-03-26',100000);
Query OK, 1 row affected (0.130 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (33, 116, 13,'debit','2020-03-26',430000);
Query OK, 1 row affected (0.102 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (34, 117, 14,'debit','2020-03-27',4650000);
Query OK, 1 row affected (0.066 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (35, 118, 15,'debit','2020-03-27',7890000);
Query OK, 1 row affected (0.098 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (36, 118, 15,'kredit','2020-03-28',7890000);
Query OK, 1 row affected (0.132 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (37, 117, 14,'kredit','2020-03-28',4650000);
Query OK, 1 row affected (0.101 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (38, 116, 13,'kredit','2020-03-28',430000);
Query OK, 1 row affected (0.110 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (39, 115, 12,'kredit','2020-03-28',100000);
Query OK, 1 row affected (0.109 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (40, 114, 11,'kredit','2020-03-28',90000);
Query OK, 1 row affected (0.106 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (41, 119, 16,'debit','2020-03-29',100000);
Query OK, 1 row affected (0.111 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (42, 119, 16,'kredit','2020-03-30',100000);
Query OK, 1 row affected (0.077 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (43, 120, 17,'debit','2020-03-30',200000);
Query OK, 1 row affected (0.278 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (44, 120, 17,'kredit','2020-03-31',200000);
Query OK, 1 row affected (0.069 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (45, 121, 18,'debit','2020-03-31',300000);
Query OK, 1 row affected (0.089 sec)
```

Command Prompt - mysql -u root -p

```
MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (46, 121, 18,'kredit','2020-04-01',300000);
Query OK, 1 row affected (0.076 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (47, 122, 19,'debit','2020-04-01',400000);
Query OK, 1 row affected (0.078 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (48, 122, 19,'kredit','2020-04-02',400000);
Query OK, 1 row affected (0.312 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (49, 122, 19,'debit','2020-04-02',500000);
Query OK, 1 row affected (0.089 sec)

MariaDB [perbankan]> INSERT INTO transaksi (no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES (50, 123, 20,'kredit','2020-04-03',500000);
Query OK, 1 row affected (0.055 sec)
```

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	11	114	debit	2020-03-26 00:00:00	90000
32	12	115	debit	2020-03-26 00:00:00	100000
33	13	116	debit	2020-03-26 00:00:00	430000
34	14	117	debit	2020-03-27 00:00:00	4650000
35	15	118	debit	2020-03-27 00:00:00	7890000
36	15	118	kredit	2020-03-28 00:00:00	7890000
37	14	117	kredit	2020-03-28 00:00:00	4650000
38	13	116	kredit	2020-03-28 00:00:00	430000
39	12	115	kredit	2020-03-28 00:00:00	100000
40	11	114	kredit	2020-03-28 00:00:00	90000
41	16	119	debit	2020-03-29 00:00:00	100000
42	16	119	kredit	2020-03-30 00:00:00	100000
43	17	120	debit	2020-03-30 00:00:00	200000
44	17	120	kredit	2020-03-31 00:00:00	200000
45	18	121	debit	2020-03-31 00:00:00	300000
46	18	121	kredit	2020-04-01 00:00:00	300000
47	19	122	debit	2020-04-01 00:00:00	400000
48	19	122	kredit	2020-04-02 00:00:00	400000
49	19	122	debit	2020-04-02 00:00:00	500000
50	20	123	kredit	2020-04-03 00:00:00	500000

50 rows in set (0.001 sec)

MariaDB [perbankan]>