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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 muncu;
pemberitahuan "database changed"

5. Kemudian masukkan data – data ke dalam database perbankan

Tabel nasabah

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          | 123  |  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. Suparman 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. 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 (0.001 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)
```

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)                                                              d
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 (0.082 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,'BRUW',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 | BRUW         | 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]>
```