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Modul 5

Data Manipulation Language (DML)

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.418]
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C:\Users\asus>cd..

C:\Users>cd..

C:\>cd xampp\mysql\bin

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 5
Server version: 10.1.36-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

Command Prompt - mysql -u root -p

```
MariaDB [(none)]> create database perbankan5;  
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [(none)]> use perbankan5;  
Database changed
```

```
MariaDB [perbankan5]> CREATE TABLE nasabah(  
  -> id_nasabah INTEGER PRIMARY KEY,  
  -> nama_nasabah VARCHAR(45) NOT NULL,  
  -> alamat_nasabah VARCHAR(255) NOT NULL  
  -> );  
Query OK, 0 rows affected (0.02 sec)
```

```
MariaDB [perbankan5]> CREATE TABLE cabang_bank(  
  -> kode_cabang VARCHAR(20) PRIMARY KEY,  
  -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,  
  -> alamat_cabang VARCHAR(255) NOT NULL  
  -> );  
Query OK, 0 rows affected (0.01 sec)
```

```
MariaDB [perbankan5]> CREATE TABLE rekening(  
  -> no_rekening INTEGER PRIMARY KEY,  
  -> kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cabang) ON DELETE CASCADE ON UPDATE CASCADE,  
  -> pin VARCHAR(45) NOT NULL,  
  -> saldo INTEGER DEFAULT 0 NOT NULL  
  -> );  
Query OK, 0 rows affected (0.01 sec)
```

```
MariaDB [perbankan5]> CREATE TABLE nasabah_has_rekening(  
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE,  
  -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE  
  -> );  
Query OK, 0 rows affected (0.01 sec)
```

```
MariaDB [perbankan5]> CREATE TABLE transaksi(  
  -> no_transaksi SERIAL PRIMARY KEY,  
  -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,  
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE,  
  -> jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,  
  -> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,  
  -> jumlah INTEGER NOT NULL CHECK (jumlah>=20000)  
  -> );
```

```
MariaDB [perbankan5]> CREATE TABLE transaksi(  
  -> no_transaksi SERIAL PRIMARY KEY,  
  -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,  
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE,  
  -> jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,  
  -> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,  
  -> jumlah INTEGER NOT NULL CHECK (jumlah>=20000)  
  -> );
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
MariaDB [perbankan5]> use perbankan5;  
Database changed
```

```
MariaDB [perbankan5]> Insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah)  
  -> values(1, 'Sutopo', 'Jl.Jenderal 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');
```

```
Query OK, 10 rows affected (0.01 sec)
```

```
Records: 10 Duplicates: 0 Warnings: 0
```

```

MariaDB [perbankan5]> Insert into nasabah_has_rekening(id_nasabahFK, no_rekeningFK)
-> values(1, 104),
-> (2, 103),
-> (3, 105),
-> (3, 106),
-> (4, 101),
-> (4, 107),
-> (5, 102),
-> (5, 107),
-> (6, 109),
-> (7, 109),
-> (8, 111),
-> (9, 110),
-> (10, 113),
-> (8, 112),
-> (10, 108);

```

Query OK, 15 rows affected (0.01 sec)
Records: 15 Duplicates: 0 Warnings: 0

```

MariaDB [perbankan5]> 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, 100, 9, 'kredit', '2009-11-15', 150000),
-> (8, 102, 5, 'debit', '2009-11-16', 20000),
-> (9, 105, 2, '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', '2009-11-20', 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 (0.01 sec)
Records: 30 Duplicates: 0 Warnings: 0

```

-> (113, 'BRUY', 8888, 255000);

```

Query OK, 13 rows affected (0.01 sec)
Records: 13 Duplicates: 0 Warnings: 0

```
MariaDB [perbankan5]> select * from nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah
1	Sutopo	Jl.Jenderal 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 (0.00 sec)
```

```
MariaDB [perbankan5]> 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 (0.00 sec)
```

```
MariaDB [perbankan5]> 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

```
13 rows in set (0.00 sec)
```



```
MariaDB [perbankan5]> 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
9	110
10	113
8	112
10	108

```
15 rows in set (0.00 sec)
```

```
MariaDB [perbankan5]> select * from transaksi;
```

no_transaksi	no_rekeningFK	id_nasabahFK	jenis_transaksi	tanggal	jumlah
1	105	3	debit	2009-11-10 00:00:00	50000
2	103	2	debit	2009-11-10 00:00:00	40000
3	101	4	kredit	2009-11-12 00:00:00	20000
4	106	3	debit	2009-11-13 00:00:00	50000
5	107	5	kredit	2009-11-13 00:00:00	30000
6	104	1	kredit	2009-11-15 00:00:00	200000
7	100	9	kredit	2009-11-15 00:00:00	150000
8	102	5	debit	2009-11-16 00:00:00	20000
9	105	2	kredit	2009-11-18 00:00:00	50000
10	107	4	debit	2009-11-19 00:00:00	100000
11	103	2	debit	2009-11-19 00:00:00	100000
12	104	1	debit	2009-11-20 00:00:00	50000
13	107	4	kredit	2009-11-20 00:00:00	200000
14	105	3	debit	2009-11-21 00:00:00	40000
15	104	1	kredit	2009-11-22 00:00:00	100000
16	101	4	kredit	2009-11-22 00:00:00	20000
17	103	2	debit	2009-11-22 00:00:00	50000
18	102	5	debit	2009-11-25 00:00:00	50000
19	108	10	debit	2009-11-26 00:00:00	100000
20	106	3	kredit	2009-11-27 00:00:00	50000
21	103	2	kredit	2009-11-28 00:00:00	200000
22	105	3	kredit	2009-11-28 00:00:00	100000
23	102	5	debit	2009-11-30 00:00:00	20000
24	104	1	debit	2009-12-01 00:00:00	50000
25	103	2	debit	2009-12-02 00:00:00	40000
26	101	4	debit	2009-12-04 00:00:00	50000
27	103	2	kredit	2009-12-05 00:00:00	100000
28	102	5	kredit	2009-12-05 00:00:00	200000
29	109	7	debit	2009-12-05 00:00:00	100000
30	110	9	debit	2009-12-06 00:00:00	20000

```
30 rows in set (0.00 sec)
```

Melakukan Update

6. a

```
mysql> 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 (0.00 sec)
```

```
mysql> update nasabah
-> set alamat_nasabah = 'Jl. Slamet Riyadi 34'
-> where nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.23 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> 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 (0.00 sec)
```

b.

```
mysql> 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 (0.00 sec)
```

```
mysql> update cabang_bank
-> set alamat_cabang = 'Jl. Ahmad Yani 23'
-> where kode_cabang = 'BRUW';
Query OK, 1 row affected (0.09 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> 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. Ahmad Yani 23
BRUY	Bank Rut Unit Yogyakarta	Jl. Anggrek 21

```
6 rows in set (0.00 sec)
```

Melakukan delete

7. a

```
mysql> 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 (0.00 sec)
```

```
mysql> delete from nasabah
```

```
-> where id_nasabah = 7;
```

```
Query OK, 1 row affected (0.09 sec)
```

```
mysql> 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 (0.00 sec)
```

7. b


```
mysql> 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. Ahmad Yani 23
BRUY	Bank Rut Unit Yogyakarta	Jl. Anggrek 21

```
6 rows in set (0.00 sec)
```

```
mysql> delete from cabang_bank
-> where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.10 sec)
```

```
mysql> 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. Ahmad Yani 23
BRUY	Bank Rut Unit Yogyakarta	Jl. Anggrek 21

```
5 rows in set (0.00 sec)
```

Tugas

1. Tabel nasabah

```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah) values
-> (11,"Amin","Jl. Bebek 12"),
-> (12,"Amir","Jl. Ayam 77"),
-> (13,"Apip","Jl. Bango 69"),
-> (14,"Acil","Jl. Mop 5"),
-> (15,"Ajeng","Jl. Gagang 3"),
-> (16,"Ayu","Jl. Sudiro 1"),
-> (17,"Abang","Jl. Murai 33"),
-> (18,"Aisyah","Jl. Meenco Raya 4"),
-> (19,"Amar","Jl. Kepodang 9"),
-> (20,"Agus","Jl. Kacer 45");
Query OK, 10 rows affected (0.15 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	Amin	Jl. Bebek 12
12	Amir	Jl. Ayam 77
13	Apip	Jl. Bango 69
14	Acil	Jl. Mop 5
15	Ajeng	Jl. Gagang 3
16	Ayu	Jl. Sudiro 1
17	Abang	Jl. Murai 33
18	Aisyah	Jl. Meenco Raya 4
19	Amar	Jl. Kepodang 9
20	Agus	Jl. Kacer 45

```
19 rows in set (0.00 sec)
```

2. cabang bank

```
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang) values
-> ("BRUT","Bank Rut Unit Tegal","Jl. Raya Tegal 14"),
-> ("BRUR","Bank Rut Unit Rembang","Jl. Kasihan 2"),
-> ("BRUP","Bank Rut Unit Pati","Jl. Kretek 76"),
-> ("BRUL","Bank Rut Unit Lembang","Jl. Cikuning 9"),
-> ("BRUKU","Bank Rut Unit Kudus","Jl. Djarum 3"),
-> ("BRUSU","Bank Rut Unit Subang","Jl. Cicaheum 10"),
-> ("BRUG","Bank Rut Unit Gunung Kidul","Jl. Pasir Wetan 32"),
-> ("BRUC","Bank Rut Unit Gunung Cemani","Jl. Margondi 11"),
-> ("BRUA","Bank Rut Unit Ampel","Jl. Ampel 311"),
-> ("BRUD","Bank Rut Unit Demak","Jl. Wali 44");
Query OK, 10 rows affected (0.08 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

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

kode_cabang	nama_cabang	alamat_cabang
BRUA	Bank Rut Unit Ampel	Jl. Ampel 311
BRUB	Bank Rut Unit Boyolali	Jl. Ahmad Yani 45
BRUC	Bank Rut Unit Gunung Cemani	Jl. Margondi 11
BRUD	Bank Rut Unit Demak	Jl. Wali 44
BRUG	Bank Rut Unit Gunung Kidul	Jl. Pasir Wetan 32
BRUK	Bank Rut Unit Klaten	Jl. Suparman 23
BRUKU	Bank Rut Unit Kudus	Jl. Djarum 3
BRUL	Bank Rut Unit Lembang	Jl. Cikuning 9
BRUP	Bank Rut Unit Pati	Jl. Kretek 76
BRUR	Bank Rut Unit Rembang	Jl. Kasihan 2
BRUS	Bank Rut Unit Surakarta	Jl. Slamet Riyadi 18
BRUSU	Bank Rut Unit Subang	Jl. Cicaheum 10
BRUT	Bank Rut Unit Tegal	Jl. Raya Tegal 14
BRUW	Bank Rut Unit Wonogiri	Jl. A. Yani 23
BRUY	Bank Rut Unit Yogyakarta	Jl. Anggrek 21

```
15 rows in set (0.03 sec)
```

```
MariaDB [perbankan]>
```

3. rekening

```

MariaDB [perbankan]> insert into rekening (no_rekening,kode_cabangFK,pin,saldo) values
-> (114,"BRUP",1414,20000),
-> (115,"BRUL",1515,340000),
-> (116,"BRUKU",1616,530000),
-> (117,"BRUG",1717,120000),
-> (118,"BRUC",1818,120000),
-> (119,"BRUW",1919,50000),
-> (120,"BRUT",2020,202000),
-> (121,"BRUT",2120,234500),
-> (122,"BRUR",4565,44500),
-> (123,"BRUA",2332,45200);
Query OK, 10 rows affected (0.09 sec)
Records: 10  Duplicates: 0  Warnings: 0

```

```

MariaDB [perbankan]> select * from rekening;
+-----+-----+-----+-----+
| no_rekening | kode_cabangFK | pin | saldo |
+-----+-----+-----+-----+
| 101 | BRUS | 1111 | 500000 |
| 102 | BRUS | 2222 | 350000 |
| 103 | BRUS | 3333 | 750000 |
| 104 | BRUM | 4444 | 900000 |
| 105 | BRUM | 5555 | 2000000 |
| 106 | BRUS | 6666 | 3000000 |
| 107 | BRUS | 7777 | 1000000 |
| 108 | BRUB | 0 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
| 114 | BRUP | 1414 | 20000 |
| 115 | BRUL | 1515 | 340000 |
| 116 | BRUKU | 1616 | 530000 |
| 117 | BRUG | 1717 | 120000 |
| 118 | BRUC | 1818 | 120000 |
| 119 | BRUW | 1919 | 50000 |
| 120 | BRUT | 2020 | 202000 |
| 121 | BRUT | 2120 | 234500 |
| 122 | BRUR | 4565 | 44500 |
| 123 | BRUA | 2332 | 45200 |
+-----+-----+-----+-----+
23 rows in set (0.00 sec)

MariaDB [perbankan]>

```

4. 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),
  -> (20,121);
Query OK, 11 rows affected (0.11 sec)
Records: 11  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 |          114 |
|         12 |          115 |
|         13 |          116 |
|         14 |          117 |
|         15 |          118 |
|         16 |          119 |
|         17 |          120 |
|         18 |          121 |
|         19 |          122 |
|         20 |          121 |
|         20 |          123 |
+-----+-----+

```

5. transaksi

```
MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) value
s
-> (31,114,11,"debit","2009-12-7",200000),
-> (32,115,12,"debit","2009-12-7",40000),
-> (33,116,13,"kredit","2009-12-7",120000),
-> (34,117,14,"kredit","2009-12-7",100000),
-> (35,118,15,"debit","2009-12-8",500000),
-> (36,119,16,"debit","2009-12-8",13200000),
-> (37,120,17,"kredit","2009-12-8",100000),
-> (38,121,18,"kredit","2009-12-8",900000),
-> (39,122,18,"debit","2009-12-8",300000),
-> (40,123,18,"debit","2009-12-9",5600000),
-> (41,114,19,"debit","2009-12-9",600000),
-> (42,115,20,"kredit","2009-12-10",700000),
-> (43,116,11,"kredit","2009-12-10",990000),
-> (44,117,12,"debit","2009-12-10",90000),
-> (45,118,12,"debit","2009-12-10",9000000),
-> (46,119,13,"debit","2009-12-11",11000000),
-> (47,120,13,"kredit","2009-12-11",10000000),
-> (48,121,14,"kredit","2009-12-11",990000),
-> (49,122,15,"debit","2009-12-12",690000),
-> (50,123,16,"debit","2009-12-12",7770000);
Query OK, 20 rows affected (0.12 sec)
Records: 20 Duplicates: 0 Warnings: 0
```

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

no_transaksi	no_rekeningFK	id_nasabahFK	jenis_transaksi	tanggal	jumlah
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	2009-12-01	50000
25	103	2	debit	2009-12-02	40000
26	101	4	debit	2009-12-04	50000
27	103	2	kredit	2009-12-05	100000
28	102	5	kredit	2009-12-05	200000
29	109	7	debit	2009-12-05	100000
30	110	9	debit	2009-12-06	20000
31	114	11	debit	2009-12-07	200000
32	115	12	debit	2009-12-07	40000
33	116	13	kredit	2009-12-07	120000
34	117	14	kredit	2009-12-07	100000
35	118	15	debit	2009-12-08	500000
36	119	16	debit	2009-12-08	1320000
37	120	17	kredit	2009-12-08	100000
38	121	18	kredit	2009-12-08	900000
39	122	18	debit	2009-12-08	300000
40	123	18	debit	2009-12-09	5600000
41	114	19	debit	2009-12-09	600000
42	115	20	kredit	2009-12-10	700000

43	116	11	kredit	2009-12-10	990000
44	117	12	debit	2009-12-10	90000
45	118	12	debit	2009-12-10	9000000
46	119	13	debit	2009-12-11	11000000
47	120	13	kredit	2009-12-11	10000000
48	121	14	kredit	2009-12-11	990000
49	122	15	debit	2009-12-12	690000
50	123	16	debit	2009-12-12	7770000

```
50 rows in set (0.00 sec)
```

```
MariaDB [perbankan]>
```