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Kelas : Praktikum Sistem Basis Data H

MODUL 5

Data Manipulation Language(DML)

Latihan

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.778]
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C:\Users\msi gaming>cd c:\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 4
Server version: 10.1.37-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.

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

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

k1' at line 11
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)VALUES
  -> (1, 'SUTOPO', 'Jl. Jendral Susirman 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 (0.08 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | SUTOPO | Jl. Jendral Susirman 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 [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang)VALUES
```

```
-> ('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18'),  
-> ('BRUM', 'Bank Rut Unit Magelang', 'Jl. P.Tendean 63'),  
-> ('BRUB', 'Bank Rut Unit Boyolali', 'Jl. Ahmad Yani 45'),  
-> ('BRUK', 'Bank Rut Unit Klaten', 'Jl. Suparman 23'),  
-> ('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21'),  
-> ('BRUW', 'Bank Rut Unit Wonogiri', 'Jl. Untung Suropati 12');
```

```
Query OK, 6 rows affected (0.09 sec)
```

```
Records: 6 Duplicates: 0 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. Untung Suropati 12
BRUY	Bank Rut Unit Yogyakarta	Jl. Anggrek 21

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

```

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo)values
-> (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, 'BRUY', 8888, 255000);
Query OK, 13 rows affected (0.08 sec)
Records: 13 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 | 8888 | 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 [perbankan]> update rekening
-> set pin='1111' where no_rekening=101;
Query OK, 0 rows affected (0.10 sec)
Rows matched: 1 Changed: 0 Warnings: 0

```

```

MariaDB [perbankan]> update rekening
-> set pin='2222' where no_rekening=102;
Query OK, 0 rows affected (0.06 sec)
Rows matched: 1 Changed: 0 Warnings: 0

```

```

MariaDB [perbankan]> update rekening
-> set pin='2222' where no_rekening=103;

```

Ada sedikit kesalahan saat memasukkan pin, sebelumnya bertipe integer. Jadi, ada update-an pada pin bertipe integer menjadi string.

C:\> Command Prompt - mysql -u root -p

Query OK, 0 rows affected (0.06 sec)

Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [perbankan]> update rekening

-> set pin='3333' where no_rekening=103;

Query OK, 0 rows affected (0.07 sec)

Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [perbankan]> update rekening

-> set pin='4444' where no_rekening=104;

Query OK, 0 rows affected (0.08 sec)

Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [perbankan]> update rekening

-> set pin='5555' where no_rekening=105;

Query OK, 0 rows affected (0.08 sec)

Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [perbankan]> update rekening

-> set pin='6666' where no_rekening=106;

Query OK, 0 rows affected (0.05 sec)

Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [perbankan]> update rekening

-> set pin='7777' where no_rekening=107;

Query OK, 0 rows affected (0.06 sec)

Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [perbankan]> update rekening

-> set pin='8888' where no_rekening=108;

Query OK, 0 rows affected (0.16 sec)

Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [perbankan]> update rekening

-> set pin='9999' where no_rekening=109;

Query OK, 0 rows affected (0.02 sec)

Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [perbankan]> update rekening

-> set pin='1234' where no_rekening=110;

Query OK, 0 rows affected (0.02 sec)

Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [perbankan]> update rekening

-> set pin='4321' where no_rekening=111;

Query OK, 0 rows affected (0.06 sec)

Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [perbankan]> update rekening

-> set pin='0123' where no_rekening=112;

Command Prompt - mysql -u root -p

Rows matched: 1 Changed: 1 Warnings: 0

```
MariaDB [perbankan]> update rekening
    -> set pin='8888' where no_rekening=113;
Query OK, 0 rows affected (0.02 sec)
Rows matched: 1 Changed: 0 Warnings: 0
```

```
MariaDB [perbankan]> update rekening
    -> set pin='0000' where no_rekening=108;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 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	0000	5000000
109	BRUB	9999	0
110	BRUY	1234	550000
111	BRUK	4321	150000
112	BRUK	0123	300000
113	BRUY	8888	255000

13 rows in set (0.00 sec)

Command Prompt - mysql -u root -p

(10,108)' at line 14

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK)VALUES

-> (1,104),
-> (2,103),
-> (3,106),
-> (3,105),
-> (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 (0.04 sec)

Records: 15 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

15 rows in set (0.00 sec)

```

C:\> Command Prompt - mysql -u root -p
+-----+-----+
15 rows in set (0.00 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi,tanggal, jumlah) values
-> (NULL, 105, 3, 'DEBIT', DEFAULT,50000),
-> (NULL, 103, 2, 'DEBIT', DEFAULT,40000),
-> (NULL, 101, 4, 'KREDIT',DEFAULT,20000),
-> (NULL, 106, 3, 'DEBIT', DEFAULT,50000),
-> (NULL, 107, 5, 'KREDIT',DEFAULT,30000),
-> (NULL, 104, 1, 'KREDIT',DEFAULT,200000),
-> (NULL, 110, 9, 'KREDIT',DEFAULT,150000),
-> (NULL, 102, 5, 'DEBIT', DEFAULT,20000),
-> (NULL, 105, 3, 'KREDIT',DEFAULT,50000),
-> (NULL, 107, 4, 'DEBIT', DEFAULT,100000),
-> (NULL, 103, 2, 'DEBIT', DEFAULT,100000),
-> (NULL, 104, 1, 'DEBIT', DEFAULT,50000),
-> (NULL, 107, 4, 'KREDIT',DEFAULT,200000),
-> (NULL, 105, 3, 'DEBIT', DEFAULT,40000),
-> (NULL, 104, 1, 'KREDIT',DEFAULT,100000),
-> (NULL, 101, 4, 'KREDIT',DEFAULT,20000),
-> (NULL, 103, 2, 'DEBIT', DEFAULT,50000),
-> (NULL, 102, 5, 'DEBIT', DEFAULT,50000),
-> (NULL, 108, 10,'DEBIT', DEFAULT,100000),
-> (NULL, 106, 3, 'KREDIT',DEFAULT,50000),
-> (NULL, 103, 2, 'KREDIT',DEFAULT,200000),
-> (NULL, 105, 3, 'KREDIT',DEFAULT,100000),
-> (NULL, 102, 5, 'DEBIT', DEFAULT,20000),
-> (NULL, 104, 1, 'DEBIT', DEFAULT,50000),
-> (NULL, 103, 2, 'DEBIT', DEFAULT,40000),
-> (NULL, 101, 4, 'DEBIT', DEFAULT,50000),
-> (NULL, 103, 4, 'KREDIT',DEFAULT,100000),
-> (NULL, 102, 5, 'KREDIT',DEFAULT,200000),
-> (NULL, 109, 7, 'DEBIT', DEFAULT,100000),
-> (NULL, 110, 7, 'DEBIT', DEFAULT,20000);
Query OK, 30 rows affected (0.06 sec)
Records: 30 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> update transaksi
-> set id_nasabahFK=2 where no_transaksi=27;
Query OK, 1 row affected (0.04 sec)
Rows matched: 1 Changed: 1 Warnings: 0

```

```

C:\> Command Prompt - mysql -u root -p
MariaDB [perbankan]> select * from transaksi;
+-----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+-----+-----+-----+
| 1 | 3 | 105 | DEBIT | 2020-04-21 15:46:24 | 50000 |
| 2 | 2 | 103 | DEBIT | 2020-04-21 15:46:24 | 40000 |
| 3 | 4 | 101 | KREDIT | 2020-04-21 15:46:24 | 20000 |
| 4 | 3 | 106 | DEBIT | 2020-04-21 15:46:24 | 50000 |
| 5 | 5 | 107 | KREDIT | 2020-04-21 15:46:24 | 30000 |
| 6 | 1 | 104 | KREDIT | 2020-04-21 15:46:24 | 200000 |
| 7 | 9 | 110 | KREDIT | 2020-04-21 15:46:24 | 150000 |
| 8 | 5 | 102 | DEBIT | 2020-04-21 15:46:24 | 20000 |
| 9 | 3 | 105 | KREDIT | 2020-04-21 15:46:24 | 50000 |
| 10 | 4 | 107 | DEBIT | 2020-04-21 15:46:24 | 100000 |
| 11 | 2 | 103 | DEBIT | 2020-04-21 15:46:24 | 100000 |
| 12 | 1 | 104 | DEBIT | 2020-04-21 15:46:24 | 50000 |
| 13 | 4 | 107 | KREDIT | 2020-04-21 15:46:24 | 200000 |
| 14 | 3 | 105 | DEBIT | 2020-04-21 15:46:24 | 40000 |
| 15 | 1 | 104 | KREDIT | 2020-04-21 15:46:24 | 100000 |
| 16 | 4 | 101 | KREDIT | 2020-04-21 15:46:24 | 20000 |
| 17 | 2 | 103 | DEBIT | 2020-04-21 15:46:24 | 50000 |
| 18 | 5 | 102 | DEBIT | 2020-04-21 15:46:24 | 50000 |
| 19 | 10 | 108 | DEBIT | 2020-04-21 15:46:24 | 100000 |
| 20 | 3 | 106 | KREDIT | 2020-04-21 15:46:24 | 50000 |
| 21 | 2 | 103 | KREDIT | 2020-04-21 15:46:24 | 200000 |
| 22 | 3 | 105 | KREDIT | 2020-04-21 15:46:24 | 100000 |
| 23 | 5 | 102 | DEBIT | 2020-04-21 15:46:24 | 20000 |
| 24 | 1 | 104 | DEBIT | 2020-04-21 15:46:24 | 50000 |
| 25 | 2 | 103 | DEBIT | 2020-04-21 15:46:24 | 40000 |
| 26 | 4 | 101 | DEBIT | 2020-04-21 15:46:24 | 50000 |
| 27 | 2 | 103 | KREDIT | 2020-04-21 15:46:24 | 100000 |
| 28 | 5 | 102 | KREDIT | 2020-04-21 15:46:24 | 200000 |
| 29 | 7 | 109 | DEBIT | 2020-04-21 15:46:24 | 100000 |
| 30 | 7 | 110 | DEBIT | 2020-04-21 15:46:24 | 20000 |
+-----+-----+-----+-----+-----+-----+
30 rows in set (0.00 sec)

```

Nomer 6

Command Prompt - mysql -u root -p

MariaDB [perbankan]> select * from nasabah;

id_nasabah	nama_nasabah	alamat_nasabah
1	SUTOPO	Jl. Jendral Susirman 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 [perbankan]> update nasabah

-> set alamat_nasabah='Jl. Slamet Riyadi 34' where id_nasabah=7;

Query OK, 1 row affected (0.05 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> select * from nasabah;

id_nasabah	nama_nasabah	alamat_nasabah
1	SUTOPO	Jl. Jendral Susirman 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)


```

Command Prompt - mysql -u root -p

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 (0.00 sec)

MariaDB [perbankan]> update cabang_bank
-> set alamat_cabang='Jl. A. Yani 23' where='BRUW';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
MariaDB [perbankan]> update cabang_bank
-> set alamat_cabang='Jl. A. Yani 23' where kode_cabang='BRUW';
Query OK, 1 row affected (0.09 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)

```

Nomer 7

```

Command Prompt - mysql -u root -p

6 rows in set (0.00 sec)

MariaDB [perbankan]> select * from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah          | alamat_nasabah          |
+-----+-----+-----+
| 1          | SUTOPO                | Jl. Jendral Susirman 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)

MariaDB [perbankan]> delete from nasabah
-> where id_nasabah = 7;
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> select * from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah          | alamat_nasabah          |
+-----+-----+-----+
| 1          | SUTOPO                | Jl. Jendral Susirman 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)

```

```

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. A. Yani 23     |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21     |
+-----+-----+-----+
6 rows in set (0.00 sec)

MariaDB [perbankan]> delete from cabang_bank
-> where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.06 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   |
| 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)

```

Tugas

Nasabah

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

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)values
-> (11, 'Nizar Armando', 'Jl. Kapitan 23'),
-> (12, 'Mario Susanto', 'Jl. Tantowi 55'),
-> (13, 'Mila lia', 'Jl. Bypass 21'),
-> (14, 'Rifan Anwar', 'Jl. Pemuda 13'),
-> (15, 'Yeremia Ano', 'Jl. Pemuda 18'),
-> (16, 'Yolanda mei', 'Jl. Manahan 56'),
-> (17, 'Ronald Weho', 'Jl. Letnan Amil 2'),
-> (18, 'Roban Aliman', 'Jl. Waman 43'),
-> (19, 'Sonnia Amalia', 'Jl. Remin 3'),
-> (20, 'Leonard', 'Jl. Jendral Suharto');
Query OK, 10 rows affected (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | SUTOPO | Jl. Jendral Susirman 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 | Nizar Armando | Jl. Kapitan 23 |
| 12 | Mario Susanto | Jl. Tantowi 55 |
| 13 | Mila lia | Jl. Bypass 21 |
| 14 | Rifan Anwar | Jl. Pemuda 13 |
| 15 | Yeremia Ano | Jl. Pemuda 18 |
| 16 | Yolanda mei | Jl. Manahan 56 |
| 17 | Ronald Weho | Jl. Letnan Amil 2 |
| 18 | Roban Aliman | Jl. Waman 43 |
| 19 | Sonnia Amalia | Jl. Remin 3 |
| 20 | Leonard | Jl. Jendral Suharto |
+-----+-----+-----+
19 rows in set (0.00 sec)

MariaDB [perbankan]> _
```

Cabang_bank

```
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang)values
```

```
-> ('BRUT', 'Bank Rut Unit Trucuk', 'Jl. Raya Trucuk 6'),  
-> ('BRUC', 'Bank Rut Unit Cawas', 'Jl. Raya Cawas 22'),  
-> ('BRUP', 'Bank Rut Unit Prambanan', 'Jl. Prambanan 56'),  
-> ('BRUJ', 'Bank Rut Unit Jatinom', 'Jl. Jatinom Center 43'),  
-> ('BRUD', 'Bank Rut Unit Delanggu', 'Jl. Jogja-Solo 67'),  
-> ('BRUN', 'Bank Rut Unit Nglipar', 'Jl. Raya Nglipar 1'),  
-> ('BRUG', 'Bank Rut Unit Gondang', 'Jl. Jogja-Solo 2'),  
-> ('BRUI', 'Bank Rut Unit Imogiri', 'Jl. Imogiri 32'),  
-> ('BRUU', 'Bank Rut Unit Ungaran', 'Jl. Ungaran Raya 23'),  
-> ('BRUKT', 'Bank Rut Unit Klaten Tengah', 'Jl. Pemuda Klaten 33');
```

```
Query OK, 10 rows affected (0.06 sec)
```

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

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

kode_cabang	nama_cabang	alamat_cabang
BRUB	Bank Rut Unit Boyolali	Jl. Ahmad Yani 45
BRUC	Bank Rut Unit Cawas	Jl. Raya Cawas 22
BRUD	Bank Rut Unit Delanggu	Jl. Jogja-Solo 67
BRUG	Bank Rut Unit Gondang	Jl. Jogja-Solo 2
BRUI	Bank Rut Unit Imogiri	Jl. Imogiri 32
BRUJ	Bank Rut Unit Jatinom	Jl. Jatinom Center 43
BRUK	Bank Rut Unit Klaten	Jl. Suparman 23
BRUKT	Bank Rut Unit Klaten Tengah	Jl. Pemuda Klaten 33
BRUN	Bank Rut Unit Nglipar	Jl. Raya Nglipar 1
BRUP	Bank Rut Unit Prambanan	Jl. Prambanan 56
BRUS	Bank Rut Unit Surakarta	Jl. Slamet Riyadi 18
BRUT	Bank Rut Unit Trucuk	Jl. Raya Trucuk 6
BRUU	Bank Rut Unit Ungaran	Jl. Ungaran Raya 23
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]> _
```

Rekening

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo)values
-> (114, 'BRUC', '1400', 500000),
-> (115, 'BRUD', '1500', 900000),
-> (116, 'BRUG', '1600', 9000000),
-> (117, 'BRUC', '1700', 1000000),
-> (118, 'BRUC', '1701', 1500000),
-> (119, 'BRUC', '1702', 1800000),
-> (120, 'BRUU', '1800', 5000000),
-> (121, 'BRUT', '1900', 1000000),
-> (122, 'BRUP', '2000', 4000000),
-> (123, 'BRUN', '2100', 10000000);
Query OK, 10 rows affected (0.04 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 | 0000 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 0123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
| 114 | BRUC | 1400 | 500000 |
| 115 | BRUD | 1500 | 900000 |
| 116 | BRUG | 1600 | 9000000 |
| 117 | BRUC | 1700 | 1000000 |
| 118 | BRUC | 1701 | 1500000 |
| 119 | BRUC | 1702 | 1800000 |
| 120 | BRUU | 1800 | 5000000 |
| 121 | BRUT | 1900 | 1000000 |
| 122 | BRUP | 2000 | 4000000 |
| 123 | BRUN | 2100 | 10000000 |
+-----+-----+-----+-----+
23 rows in set (0.00 sec)
```

Nasabah_has_rekening

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo)values
-> (114, 'BRUC', '1400', 500000),
-> (115, 'BRUD', '1500', 900000),
-> (116, 'BRUG', '1600', 9000000),
-> (117, 'BRUC', '1700', 1000000),
-> (118, 'BRUC', '1701', 1500000),
-> (119, 'BRUC', '1702', 1800000),
-> (120, 'BRUU', '1800', 5000000),
-> (121, 'BRUT', '1900', 1000000),
-> (122, 'BRUP', '2000', 4000000),
-> (123, 'BRUN', '2100', 10000000);
Query OK, 10 rows affected (0.04 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 | 0000 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 0123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
| 114 | BRUC | 1400 | 500000 |
| 115 | BRUD | 1500 | 900000 |
| 116 | BRUG | 1600 | 9000000 |
| 117 | BRUC | 1700 | 1000000 |
| 118 | BRUC | 1701 | 1500000 |
| 119 | BRUC | 1702 | 1800000 |
| 120 | BRUU | 1800 | 5000000 |
| 121 | BRUT | 1900 | 1000000 |
| 122 | BRUP | 2000 | 4000000 |
| 123 | BRUN | 2100 | 10000000 |
+-----+-----+-----+-----+
23 rows in set (0.00 sec)

MariaDB [perbankan]>
```

Transaksi

```
Command Prompt - mysql -u root -p
(NULL, 109' at line 12
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah)VALUES
-> (NULL, 114, 20, 'DEBIT', DEFAULT, 500000),
-> (NULL, 115, 17, 'DEBIT', DEFAULT, 100000),
-> (NULL, 108, 10, 'DEBIT', DEFAULT, 100000),
-> (NULL, 120, 12, 'DEBIT', DEFAULT, 50000),
-> (NULL, 123, 11, 'KREDIT', DEFAULT, 1000000),
-> (NULL, 118, 14, 'KREDIT', DEFAULT, 1500000),
-> (NULL, 109, 7, 'DEBIT', DEFAULT, 5000000),
-> (NULL, 111, 8, 'DEBIT', DEFAULT, 500000),
-> (NULL, 103, 2, 'DEBIT', DEFAULT, 100000),
-> (NULL, 113, 11, 'DEBIT', DEFAULT, 4500000),
-> (NULL, 109, 6, 'DEBIT', DEFAULT, 400000),
-> (NULL, 109, 7, 'DEBIT', DEFAULT, 200000),
-> (NULL, 104, 1, 'KREDIT', DEFAULT, 500000),
-> (NULL, 107, 4, 'KREDIT', DEFAULT, 150000),
-> (NULL, 106, 3, 'KREDIT', DEFAULT, 990000),
-> (NULL, 105, 3, 'DEBIT', DEFAULT, 2000000),
-> (NULL, 112, 20, 'DEBIT', DEFAULT, 1000000),
-> (NULL, 114, 19, 'DEBIT', DEFAULT, 500000),
-> (NULL, 114, 18, 'DEBIT', DEFAULT, 200000);
Query OK, 19 rows affected (0.07 sec)
Records: 19 Duplicates: 0 Warnings: 0

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

no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
1	3	105	DEBIT	2020-04-21 15:46:24	50000
2	2	103	DEBIT	2020-04-21 15:46:24	40000

Command Prompt - mysql -u root -p

3	4	101	KREDIT	2020-04-21 15:46:24	20000
4	3	106	DEBIT	2020-04-21 15:46:24	50000
5	5	107	KREDIT	2020-04-21 15:46:24	30000
6	1	104	KREDIT	2020-04-21 15:46:24	200000
7	9	110	KREDIT	2020-04-21 15:46:24	150000
8	5	102	DEBIT	2020-04-21 15:46:24	20000
9	3	105	KREDIT	2020-04-21 15:46:24	50000
10	4	107	DEBIT	2020-04-21 15:46:24	100000
11	2	103	DEBIT	2020-04-21 15:46:24	100000
12	1	104	DEBIT	2020-04-21 15:46:24	50000
13	4	107	KREDIT	2020-04-21 15:46:24	200000
14	3	105	DEBIT	2020-04-21 15:46:24	40000
15	1	104	KREDIT	2020-04-21 15:46:24	100000
16	4	101	KREDIT	2020-04-21 15:46:24	20000
17	2	103	DEBIT	2020-04-21 15:46:24	50000
18	5	102	DEBIT	2020-04-21 15:46:24	50000
19	10	108	DEBIT	2020-04-21 15:46:24	100000
20	3	106	KREDIT	2020-04-21 15:46:24	50000
21	2	103	KREDIT	2020-04-21 15:46:24	200000
22	3	105	KREDIT	2020-04-21 15:46:24	100000
23	5	102	DEBIT	2020-04-21 15:46:24	20000
24	1	104	DEBIT	2020-04-21 15:46:24	50000
25	2	103	DEBIT	2020-04-21 15:46:24	40000
26	4	101	DEBIT	2020-04-21 15:46:24	50000
27	2	103	KREDIT	2020-04-21 15:46:24	100000
28	5	102	KREDIT	2020-04-21 15:46:24	200000
29	7	109	DEBIT	2020-04-21 15:46:24	100000
30	7	110	DEBIT	2020-04-21 15:46:24	20000
31	20	114	DEBIT	2020-04-21 17:16:21	500000
32	17	115	DEBIT	2020-04-21 17:16:21	100000
33	10	108	DEBIT	2020-04-21 17:16:21	100000
34	12	120	DEBIT	2020-04-21 17:16:21	50000
35	11	123	KREDIT	2020-04-21 17:16:21	1000000
36	14	118	KREDIT	2020-04-21 17:16:21	1500000
37	7	109	DEBIT	2020-04-21 17:16:21	5000000
38	8	111	DEBIT	2020-04-21 17:16:21	500000
39	2	103	DEBIT	2020-04-21 17:16:21	100000
40	11	113	DEBIT	2020-04-21 17:16:21	4500000
41	6	109	DEBIT	2020-04-21 17:16:21	400000
42	7	109	DEBIT	2020-04-21 17:16:21	200000
43	1	104	KREDIT	2020-04-21 17:16:21	500000
44	4	107	KREDIT	2020-04-21 17:16:21	150000
45	3	106	KREDIT	2020-04-21 17:16:21	990000
46	3	105	DEBIT	2020-04-21 17:16:21	2000000
47	20	112	DEBIT	2020-04-21 17:16:21	1000000
48	19	114	DEBIT	2020-04-21 17:16:21	500000
49	18	114	DEBIT	2020-04-21 17:16:21	200000