

Nama : Anggit Astriani

NIM : L200180111

## MODUL 5

Tabel : nasabah

```
C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]>
MariaDB [perbankan]> describe nasabah;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_nasabah | int(11)   | NO   | PRI | NULL    |       |
| nama_nasabah | varchar(45) | NO   |     | NULL    |       |
| alamat_nasabah | varchar(45) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.007 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah,nama_nasabah,alamat_nasabah)
VALUES
-> (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 Prayoga','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 Lokanta','Jl. Tidar 86'),
-> (10,'Budi Murtono','Jl. Merak 22');
Query OK, 10 rows affected (0.123 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 Prayoga | 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 Lokanta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.001 sec)
```

Tabel : cabang\_bank

```

C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> describe cabang_bank;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kode_cabang    | varchar(20)   | NO   | PRI | NULL     |       |
| nama_cabang    | varchar(45)   | NO   | UNI | NULL     |       |
| alamat_cabang  | varchar(255)  | NO   |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.151 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. Tandean 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 (1.835 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. Tandean 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 : rekening

```

C:\Windows\system32\cmd.exe - mysql -u root -p

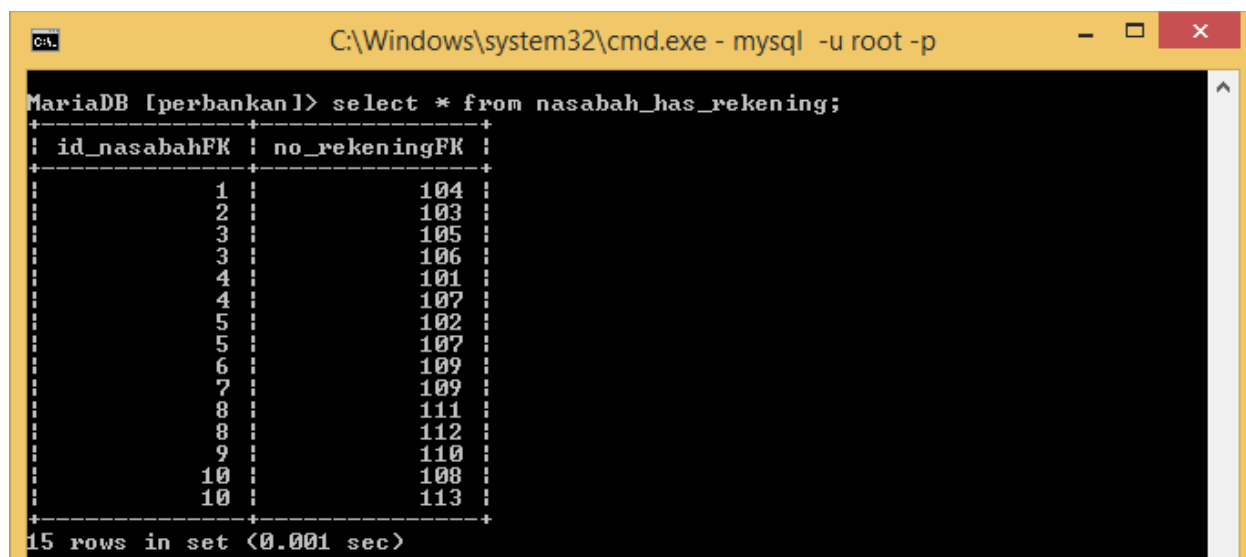
MariaDB [perbankan]> describe rekening;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| no_rekening | int(11)   | NO   | PRI | NULL    |       |
| kode_cabangFK | varchar(20) | YES  |     | NULL    |       |
| pin         | varchar(20) | NO   |     | 1234    |       |
| saldo       | int(11)   | NO   |     | 0       |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.105 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo) U
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','0000',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 (0.076 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          | 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 (0.001 sec)

```

Tabel : nasabah\_has\_rekening



The screenshot shows a Windows command prompt window titled "C:\Windows\system32\cmd.exe - mysql -u root -p". The prompt is "MariaDB [perbankan]>". The user has entered the command "select \* from nasabah\_has\_rekening;". The output is a table with two columns: "id\_nasabahFK" and "no\_rekeningFK". The table contains 15 rows of data. The first column has values 1, 2, 3, 3, 4, 4, 5, 5, 6, 7, 8, 8, 9, 10, 10. The second column has values 104, 103, 105, 106, 101, 107, 102, 107, 109, 109, 111, 112, 110, 108, 113. The prompt "15 rows in set (0.001 sec)" is displayed at the bottom.

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 : transaksi

```

C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> describe transaksi;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| no_transaksi | bigint(20) | unsigned | NO | PRI | NULL | auto_increment |
| id_nasabahFK | int(11) | YES | NULL | NULL | | |
| no_rekeningFK | int(11) | YES | NULL | NULL | | |
| jenis_transaksi | varchar(20) | NO | | | debit | |
| tanggal | datetime | NO | | | current_timestamp() | |
| jumlah | int(11) | NO | | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.007 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(1,105,3,'debit','2009-11-10',50000);
Query OK, 1 row affected (0.043 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(2,103,2,'debit','2009-11-10',40000);
Query OK, 1 row affected (0.017 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(3,105,4,'kredit','2009-11-12',20000);
Query OK, 1 row affected (0.018 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(4,106,3,'debit','2009-11-13',50000);
Query OK, 1 row affected (0.019 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(5,107,5,'kredit','2009-11-13',30000);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(6,104,1,'kredit','2009-11-15',20000);
Query OK, 1 row affected (0.019 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(7,110,9,'kredit','2009-11-15',150000);
Query OK, 1 row affected (0.036 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(8,102,5,'debit','2009-11-16',20000);
Query OK, 1 row affected (0.019 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(9,105,3,'kredit','2009-11-18',50000);
Query OK, 1 row affected (0.034 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(10,107,4,'debit','2009-11-19',100000);
Query OK, 1 row affected (0.015 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(11,103,2,'debit','2009-11-19',100000);
Query OK, 1 row affected (0.029 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(12,104,1,'debit','2009-11-19',50000);
Query OK, 1 row affected (0.029 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(13,107,4,'kredit','2009-11-20',200000);
Query OK, 1 row affected (0.021 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(14,105,3,'debit','2009-11-21',40000);
Query OK, 1 row affected (0.029 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(15,104,1,'kredit','2009-11-22',100000);
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(16,101,4,'kredit','2009-11-22',20000);
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(17,103,2,'debit','2009-11-22',50000);
Query OK, 1 row affected (0.043 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(18,102,5,'debit','2009-11-25',50000);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(19,100,10,'debit','2009-11-26',100000);
Query OK, 1 row affected (0.020 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(20,106,3,'kredit','2009-11-27',50000);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(21,103,2,'kredit','2009-11-28',200000);
Query OK, 1 row affected (0.024 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(22,105,3,'kredit','2009-11-28',100000);
Query OK, 1 row affected (0.023 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(23,102,5,'debit','2009-11-30',20000);
Query OK, 1 row affected (0.019 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(24,104,1,'debit','2009-12-1',50000);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(25,103,2,'debit','2009-12-2',40000);
Query OK, 1 row affected (0.020 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(26,101,4,'debit','2009-12-4',50000);
Query OK, 1 row affected (0.020 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(27,103,2,'kredit','2009-12-5',100000);
Query OK, 1 row affected (0.019 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(28,102,5,'kredit','2009-12-5',200000);
Query OK, 1 row affected (0.029 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(29,109,7,'debit','2009-12-5',100000);
Query OK, 1 row affected (0.019 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(30,110,9,'debit','2009-12-6',20000);
Query OK, 1 row affected (0.051 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 | 105 | 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 | 20000 |
| 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 | 100 | 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 |
+-----+-----+-----+-----+-----+-----+
30 rows in set (0.001 sec)

MariaDB [perbankan]>

```

- Lakukan update untuk kasus-kasus berikut ini.
  - a. Nasabah dengan nama “Indri Hapsari” pindah alamat ke “Jalan Slamet Riyadi No.34”.

Sebelum

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

id_nasabah	nama_nasabah	alamat_nasabah
1	Sutopo	Jl. Jendral Sudirman 12
2	Maryati	Jl. MT. Haryono 31
3	Suparman	Jl. Hasanudin 81
4	Kartika Padmasari	Jl. Manggis 15
5	Budi Eko Prayoga	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 Lokanta	Jl. Tidar 86
10	Budi Murtono	Jl. Merak 22

```
10 rows in set (0.001 sec)
```

Sesudah

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> UPDATE nasabah
-> SET alamat_nasabah = 'Jalan Slamet Riyadi No.34'
-> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.112 sec)
Rows matched: 1  Changed: 1  Warnings: 0

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

id_nasabah	nama_nasabah	alamat_nasabah
1	Sutopo	Jl. Jendral Sudirman 12
2	Maryati	Jl. MT. Haryono 31
3	Suparman	Jl. Hasanudin 81
4	Kartika Padmasari	Jl. Manggis 15
5	Budi Eko Prayoga	Jl. Kantil 30
6	Satria Eka Jaya	Jl. Slamet Riyadi 45
7	Indri Hapsari	Jalan Slamet Riyadi No.34
8	Sari Murti	Jl. Pangandaran 11
9	Canka Lokanta	Jl. Tidar 86
10	Budi Murtono	Jl. Merak 22

```
10 rows in set (0.001 sec)
```

- b. Cabang dengan kode “BRUW” pindah ke alamat “Jalan A. Yani No.23”.

Sebelum

```
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. Tandean 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)

Sesudah

```
C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [perbankan]> UPDATE cabang_bank
  -> SET alamat_cabang = 'Jalan A. Yani No.23'
  -> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (1.444 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. Tandean 63
BRUS	Bank Rut Unit Surakarta	Jl. Slamet Riyadi 18
BRUW	Bank Rut Unit Wonogiri	Jalan A. Yani No.23
BRUY	Bank Rut Unit Yogyakarta	Jl. Anggrek 21

6 rows in set (0.001 sec)

- Lakukan penghapusan untuk kasus-kasus berikut.
  - a. Nasabah dengan id “7” menutup rekeningnya

Sebelum

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

id_nasabah	nama_nasabah	alamat_nasabah
1	Sutopo	Jl. Jendral Sudirman 12
2	Maryati	Jl. MT. Haryono 31
3	Suparman	Jl. Hasanudin 81
4	Kartika Padmasari	Jl. Manggis 15
5	Budi Eko Prayoga	Jl. Kantil 30
6	Satria Eka Jaya	Jl. Slamet Riyadi 45
7	Indri Hapsari	Jalan Slamet Riyadi No.34
8	Sari Murti	Jl. Pangandaran 11
9	Canka Lokanta	Jl. Tidar 86
10	Budi Murtono	Jl. Merak 22

10 rows in set (0.018 sec)

Sesudah

```
C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [perbankan]> delete from nasabah
-> where id_nasabah = 7;
Query OK, 1 row affected (0.009 sec)

MariaDB [perbankan]> select * from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 2 | Maryati | Jl. MT. Haryono 31 |
| 3 | Suparman | Jl. Hasanudin 81 |
| 4 | Kartika Padmasari | Jl. Manggis 15 |
| 5 | Budi Eko Prayoga | Jl. Kantil 30 |
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokanta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+-----+-----+-----+
9 rows in set (0.001 sec)
```

b. Cabang dengan nama\_cabang “Bank Rut Unit Magelang” menutup kantornya

Sebelum

```
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. Tandean 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)
```

Sesudah

```
C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [perbankan]> delete from cabang_bank
-> where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (1.840 sec)

MariaDB [perbankan]> select * from cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW | Bank Rut Unit Wonogiri | Jalan A. Yani No.23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
5 rows in set (0.001 sec)
```



## TUGAS

### 1. Record tabel nasabah

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah,nama_nasabah,alamat_nasabah) VALUES
-> (11,'Anggit Astriani','Jl. Anggrek 32'),
-> (12,'Anggit','Jl.Mawar 12'),
-> (13,'Astriani','Jl. Melati 67'),
-> (14,'Neneng','Jl. Mawar 76'),
-> (15,'Puji','Jl. Rajawali 1'),
-> (16,'Astuti','Jl. Soedirman 3'),
-> (17,'Fitri','Jl. Soeharto 10'),
-> (18,'Mur','Jl. Anggrek 90'),
-> (19,'Sela','Jl. Sudirman 30'),
-> (20,'Wildan','Jl. Soekarno 45');
Query OK, 10 rows affected (0.757 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 Prayoga | Jl. Kantil 30 |
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokanta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
| 11 | Anggit Astriani | Jl. Anggrek 32 |
| 12 | Anggit | Jl.Mawar 12 |
| 13 | Astriani | Jl. Melati 67 |
| 14 | Neneng | Jl. Mawar 76 |
| 15 | Puji | Jl. Rajawali 1 |
| 16 | Astuti | Jl. Soedirman 3 |
| 17 | Fitri | Jl. Soeharto 10 |
| 18 | Mur | Jl. Anggrek 90 |
| 19 | Sela | Jl. Sudirman 30 |
| 20 | Wildan | Jl. Soekarno 45 |
+-----+-----+-----+
19 rows in set (0.001 sec)
```

### 2. Record tabel cabang\_bank

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang,nama_cabang,alamat_cabang) VALUES
-> ('BRUD','Bank Rut Unit Dompu','Jl. Hasanuddin 10'),
-> ('BRUF','Bank Rut Unit Fasio','Jl. Sultan 21'),
-> ('BRUL','Bank Rut Unit Lombok','Jl. Ampera 34'),
-> ('BRUP','Bank Rut Unit Padang','Jl. Sugeng 16'),
-> ('BRUN','Bank Rut Unit Ngawi','Jl. Anggrek 19'),
-> ('BRUG','Bank Rut Unit Gempolo','Jl. Melati 14'),
-> ('BRUT','Bank Rut Unit Tegal','Jl. Mawar 15'),
-> ('BRUA','Bank Rut Unit Andalas','Jl. Malam 65'),
-> ('BRUH','Bank Rut Unit Hasbon','Jl. Hangtuah 42'),
-> ('BRUC','Bank Rut Unit Cikampek','Jl. Soeharto 15');
Query OK, 10 rows affected (0.774 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
ERROR 1146 (42S02): Table 'perbankan.cabang_bank' doesn't exist
MariaDB [perbankan]> select * from cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUA | Bank Rut Unit Andalas | Jl. Malam 65 |
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUC | Bank Rut Unit Cikampek | Jl. Soeharto 15 |
| BRUD | Bank Rut Unit Dompu | Jl. Hasanuddin 10 |
| BRUF | Bank Rut Unit Fasio | Jl. Sultan 21 |
| BRUG | Bank Rut Unit Gempolo | Jl. Melati 14 |
| BRUH | Bank Rut Unit Hasbon | Jl. Hangtuah 42 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUL | Bank Rut Unit Lombok | Jl. Ampera 34 |
| BRUN | Bank Rut Unit Ngawi | Jl. Anggrek 19 |
| BRUP | Bank Rut Unit Padang | Jl. Sugeng 16 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUT | Bank Rut Unit Tegal | Jl. Mawar 15 |
| BRUW | Bank Rut Unit Wonogiri | Jalan A. Yani No.23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
15 rows in set (0.001 sec)
```

### 3. Record label rekening

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo) VALUES
-> <114,'BRUA',2345.1000000>,
-> <115,'BRUB',3456.2000000>,
-> <116,'BRUB',5432.3000000>,
-> <117,'BRUF',4567.4000000>,
-> <118,'BRUY',5678.5000000>,
-> <119,'BRUS',6789.6000000>,
-> <120,'BRUC',7890.7000000>,
-> <121,'BRUP',8765.8000000>,
-> <122,'BRUN',6543.9000000>,
-> <123,'BRUL',9876.1000000>;
Query OK, 10 rows affected (0.111 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 | BRUA | 2345 | 1000000 |
| 115 | BRUB | 3456 | 2000000 |
| 116 | BRUB | 5432 | 3000000 |
| 117 | BRUF | 4567 | 4000000 |
| 118 | BRUY | 5678 | 5000000 |
| 119 | BRUS | 6789 | 6000000 |
| 120 | BRUC | 7890 | 7000000 |
| 121 | BRUP | 8765 | 8000000 |
| 122 | BRUN | 6543 | 9000000 |
| 123 | BRUL | 9876 | 10000000 |
+-----+-----+-----+-----+
23 rows in set (0.001 sec)
```

### 4. Record label nasabah\_has\_rekening

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK,no_rekeningFK) VALUES
-> <1,114>,
-> <2,115>,
-> <3,116>,
-> <4,117>,
-> <5,118>,
-> <6,117>,
-> <7,118>,
-> <8,119>,
-> <9,120>,
-> <10,121>;
Query OK, 10 rows affected (0.098 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from nasabah_has_rekening;
+-----+-----+
| id_nasabahFK | no_rekeningFK |
+-----+-----+
| 1 | 104 |
| 1 | 114 |
| 2 | 103 |
| 2 | 115 |
| 3 | 105 |
| 3 | 106 |
| 3 | 116 |
| 4 | 101 |
| 4 | 107 |
| 4 | 117 |
| 5 | 102 |
| 5 | 107 |
| 5 | 118 |
| 6 | 109 |
| 6 | 117 |
| 7 | 109 |
| 7 | 118 |
| 8 | 111 |
| 8 | 112 |
| 8 | 119 |
| 9 | 110 |
| 9 | 120 |
| 10 | 108 |
| 10 | 113 |
| 10 | 121 |
+-----+-----+
25 rows in set (0.001 sec)
```

## 5. Record tabel transaksi

```
C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(31,114,11,'debit','2020-01-11',100000);
Query OK, 1 row affected (0.001 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(32,114,11,'kredit','2020-01-11',200000);
Query OK, 1 row affected (0.028 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(33,115,12,'debit','2020-01-12',300000);
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(34,115,12,'kredit','2020-01-12',400000);
Query OK, 1 row affected (0.029 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(35,116,13,'debit','2020-01-13',500000);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(36,116,13,'kredit','2020-01-13',600000);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(37,117,14,'debit','2020-01-14',700000);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(38,117,14,'kredit','2020-01-14',800000);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(39,118,15,'debit','2020-01-15',900000);
Query OK, 1 row affected (0.029 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(40,118,15,'kredit','2020-01-15',1000000);
Query OK, 1 row affected (0.032 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(41,119,16,'debit','2020-01-16',1100000);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(42,119,16,'kredit','2020-01-16',1200000);
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(43,120,17,'debit','2020-01-17',1300000);
Query OK, 1 row affected (0.006 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(44,120,17,'kredit','2020-01-17',1400000);
Query OK, 1 row affected (0.040 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(45,121,18,'debit','2020-01-18',1500000);
Query OK, 1 row affected (0.039 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(46,121,18,'kredit','2020-01-18',1600000);
Query OK, 1 row affected (0.028 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(47,122,19,'debit','2020-01-19',1700000);
Query OK, 1 row affected (0.003 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(48,122,19,'kredit','2020-01-19',1800000);
Query OK, 1 row affected (0.029 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(49,123,20,'debit','2020-01-20',1900000);
Query OK, 1 row affected (0.029 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUES(50,123,20,'kredit','2020-01-20',2000000);
Query OK, 1 row affected (0.140 sec)

MariaDB [perbankan]> select * from transaksi;

+----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal           | jumlah |
+----+-----+-----+-----+-----+-----+
| 1           | 3           | 105          | debit          | 2007-11-10 00:00:00 | 50000  |
| 2           | 3           | 103          | debit          | 2007-11-10 00:00:00 | 40000  |
| 3           | 4           | 105          | kredit         | 2007-11-12 00:00:00 | 20000  |
| 4           | 4           | 106          | debit          | 2007-11-13 00:00:00 | 50000  |
| 5           | 5           | 107          | kredit         | 2007-11-13 00:00:00 | 30000  |
| 6           | 1           | 104          | kredit         | 2007-11-15 00:00:00 | 200000 |
| 7           | 9           | 110          | kredit         | 2007-11-15 00:00:00 | 150000 |
| 8           | 8           | 102          | debit          | 2007-11-16 00:00:00 | 20000  |
| 9           | 3           | 105          | kredit         | 2007-11-18 00:00:00 | 50000  |
| 10          | 4           | 107          | debit          | 2007-11-19 00:00:00 | 100000 |
| 11          | 2           | 103          | debit          | 2007-11-19 00:00:00 | 100000 |
| 12          | 1           | 104          | debit          | 2007-11-19 00:00:00 | 50000  |
| 13          | 2           | 107          | kredit         | 2007-11-20 00:00:00 | 200000 |
| 14          | 3           | 105          | debit          | 2007-11-21 00:00:00 | 40000  |
| 15          | 1           | 104          | kredit         | 2007-11-22 00:00:00 | 100000 |
| 16          | 4           | 101          | kredit         | 2007-11-22 00:00:00 | 20000  |
| 17          | 2           | 103          | debit          | 2007-11-22 00:00:00 | 50000  |
| 18          | 5           | 102          | debit          | 2007-11-25 00:00:00 | 50000  |
| 19          | 10          | 108          | debit          | 2007-11-26 00:00:00 | 100000 |
| 20          | 3           | 106          | kredit         | 2007-11-27 00:00:00 | 50000  |
| 21          | 2           | 103          | kredit         | 2007-11-28 00:00:00 | 200000 |
| 22          | 3           | 105          | kredit         | 2007-11-28 00:00:00 | 100000 |
| 23          | 5           | 102          | debit          | 2007-11-30 00:00:00 | 20000  |
| 24          | 1           | 104          | debit          | 2007-12-01 00:00:00 | 50000  |
| 25          | 2           | 103          | debit          | 2007-12-02 00:00:00 | 40000  |
| 26          | 4           | 101          | debit          | 2007-12-04 00:00:00 | 50000  |
| 27          | 2           | 103          | kredit         | 2007-12-05 00:00:00 | 200000 |
| 28          | 5           | 102          | kredit         | 2007-12-05 00:00:00 | 200000 |
| 29          | 7           | 109          | debit          | 2007-12-05 00:00:00 | 100000 |
| 30          | 9           | 110          | debit          | 2007-12-06 00:00:00 | 20000  |
| 31          | 11          | 114          | debit          | 2020-01-11 00:00:00 | 100000 |
| 32          | 11          | 114          | kredit         | 2020-01-11 00:00:00 | 200000 |
| 33          | 12          | 115          | debit          | 2020-01-12 00:00:00 | 300000 |
| 34          | 12          | 115          | kredit         | 2020-01-12 00:00:00 | 400000 |
| 35          | 13          | 116          | debit          | 2020-01-13 00:00:00 | 500000 |
| 36          | 13          | 116          | kredit         | 2020-01-13 00:00:00 | 600000 |
| 37          | 14          | 117          | debit          | 2020-01-14 00:00:00 | 700000 |
| 38          | 14          | 117          | kredit         | 2020-01-14 00:00:00 | 800000 |
| 39          | 15          | 118          | debit          | 2020-01-15 00:00:00 | 900000 |
| 40          | 15          | 118          | kredit         | 2020-01-15 00:00:00 | 1000000 |
| 41          | 16          | 119          | debit          | 2020-01-16 00:00:00 | 1100000 |
| 42          | 16          | 119          | kredit         | 2020-01-16 00:00:00 | 1200000 |
| 43          | 17          | 120          | debit          | 2020-01-17 00:00:00 | 1300000 |
| 44          | 17          | 120          | kredit         | 2020-01-17 00:00:00 | 1400000 |
| 45          | 18          | 121          | debit          | 2020-01-18 00:00:00 | 1500000 |
| 46          | 18          | 121          | kredit         | 2020-01-18 00:00:00 | 1600000 |
| 47          | 19          | 122          | debit          | 2020-01-19 00:00:00 | 1700000 |
| 48          | 19          | 122          | kredit         | 2020-01-19 00:00:00 | 1800000 |
| 49          | 20          | 123          | debit          | 2020-01-20 00:00:00 | 1900000 |
| 50          | 20          | 123          | kredit         | 2020-01-20 00:00:00 | 2000000 |
+----+-----+-----+-----+-----+-----+

50 rows in set (0.001 sec)
```