Nama : Nanang dwi
prasetyo
Nim : l200180157
Kelas : F

MODUL 5

Tabel : nasabah

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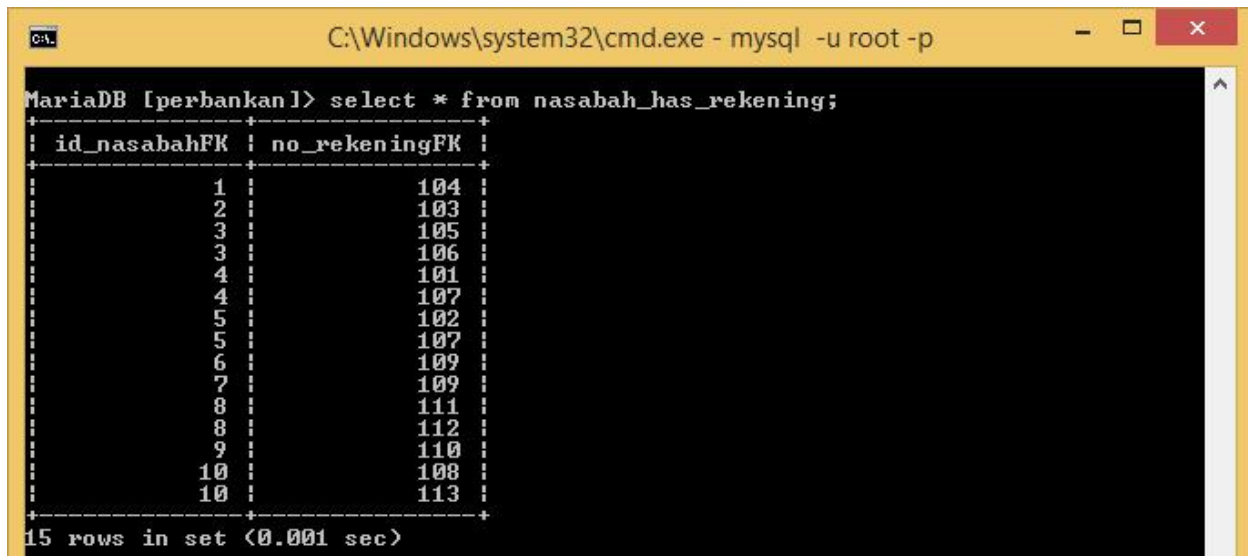
```
C:\Windows\system32\cmd.exe - mysql -u root -p

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) V
ALUES
    -> (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

```
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 : 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              |                |
| no_rekeningFK   | int(11)          | YES  |     | 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',200000);
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 (0.030 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(19,108,10,'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 (0.028 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 | 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 |
+--------------+--------------+---------------+-----------------+---------------------+--------+
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

b. Cabang dengan nama_cabang "Bank Rut Unit Magelang" menutup kantornya

Sebelum

Sesudah

TUGAS

1. Record tabel nasabah


```
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,'Nur','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 | Nur             | 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


```
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_bang;
ERROR 1146 (42S02): Table 'perbankan.cabang_bang' 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 tabel 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',9876,10000000);
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 tabel 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 (0.086 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 (0.083 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	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	50000
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	debit	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	kredit	2009-12-05 00:00:00	100000
30	9	110	debit	2009-12-06 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)
```