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NIM   : L200180173

Kelas : G

LATIHAN PRAK SBD MODUL 5

1. **Tabel nasabah**

2. **Tabel cabang_bank**

3. Tabel rekening

```
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', '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 (0.093 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 (0.000 sec)

MariaDB [perbankan]>
```

4. Tabel nasabah_has_rekening

```
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK, no_rekeningFK) values (1, 104), (2, 103), (3, 105),
(3, 106), (4, 101), (4, 107),
    -> (5, 102), (5, 107), (6, 109), (7, 109), (8, 111), (9, 110), (10, 113), (8, 112), (10, 108);
Query OK, 15 rows affected (0.221 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 (0.000 sec)

MariaDB [perbankan]>
```
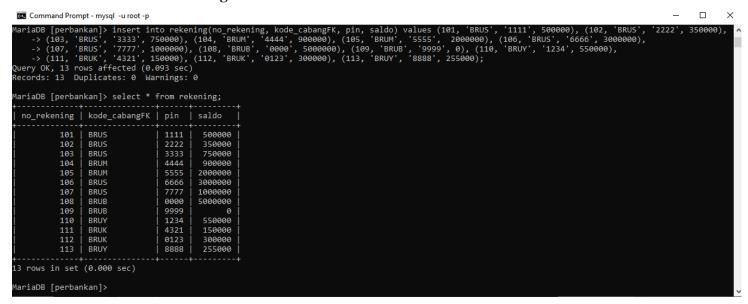
5. Tabel transaksi

```
Command Prompt - mysql -u root -p                                               —   □   ×

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, 101, 1, 'kredit', DEFAULT, 20000),
    -> (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, 2, 'kredit', DEFAULT, 100000),
    -> (NULL, 102, 5, 'kredit', DEFAULT, 200000),
    -> (NULL, 109, 7, 'debit', DEFAULT, 100000),
    -> (NULL, 110, 9, 'debit', DEFAULT, 20000);
Query OK, 30 rows affected (1.280 sec)
Records: 30  Duplicates: 0  Warnings: 0
```

```
MariaDB [perbankan]> select * from transaksi;
+--------------+--------------+---------------+-----------------+---------------------+--------+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal             | jumlah |
+--------------+--------------+---------------+-----------------+---------------------+--------+
|            1 |            3 |           105 | debit           | 2020-03-26 06:23:54 |  50000 |
|            2 |            2 |           103 | debit           | 2020-03-26 06:23:54 |  40000 |
|            3 |            4 |           101 | kredit          | 2020-03-26 06:23:54 |  20000 |
|            4 |            3 |           106 | debit           | 2020-03-26 06:23:54 |  50000 |
|            5 |            5 |           107 | kredit          | 2020-03-26 06:23:54 |  30000 |
|            6 |            1 |           101 | kredit          | 2020-03-26 06:23:54 |  20000 |
|            7 |            9 |           110 | kredit          | 2020-03-26 06:23:54 | 150000 |
|            8 |            5 |           102 | debit           | 2020-03-26 06:23:54 |  20000 |
|            9 |            3 |           105 | kredit          | 2020-03-26 06:23:54 |  50000 |
|           10 |            4 |           107 | debit           | 2020-03-26 06:23:54 | 100000 |
|           11 |            2 |           103 | debit           | 2020-03-26 06:23:54 | 100000 |
|           12 |            1 |           104 | debit           | 2020-03-26 06:23:54 |  50000 |
|           13 |            4 |           107 | kredit          | 2020-03-26 06:23:54 | 200000 |
|           14 |            3 |           105 | debit           | 2020-03-26 06:23:54 |  40000 |
|           15 |            1 |           104 | kredit          | 2020-03-26 06:23:54 | 100000 |
|           16 |            4 |           101 | kredit          | 2020-03-26 06:23:54 |  20000 |
|           17 |            2 |           103 | debit           | 2020-03-26 06:23:54 |  50000 |
|           18 |            5 |           102 | debit           | 2020-03-26 06:23:54 |  50000 |
|           19 |           10 |           108 | debit           | 2020-03-26 06:23:54 | 100000 |
|           20 |            3 |           106 | kredit          | 2020-03-26 06:23:54 |  50000 |
|           21 |            2 |           103 | kredit          | 2020-03-26 06:23:54 | 200000 |
|           22 |            3 |           105 | kredit          | 2020-03-26 06:23:54 | 100000 |
|           23 |            5 |           102 | debit           | 2020-03-26 06:23:54 |  20000 |
|           24 |            1 |           104 | debit           | 2020-03-26 06:23:54 |  50000 |
|           25 |            2 |           103 | debit           | 2020-03-26 06:23:54 |  40000 |
|           26 |            4 |           101 | debit           | 2020-03-26 06:23:54 |  50000 |
|           27 |            2 |           103 | kredit          | 2020-03-26 06:23:54 | 100000 |
|           28 |            5 |           102 | kredit          | 2020-03-26 06:23:54 | 200000 |
|           29 |            7 |           109 | debit           | 2020-03-26 06:23:54 | 100000 |
|           30 |            9 |           110 | debit           | 2020-03-26 06:23:54 |  20000 |
+--------------+--------------+---------------+-----------------+---------------------+--------+
```

6. **Lakukan update untuk kasus-kasus berikut ini:**

   a. **Nasabah dengan nama 'Indri Hapsari' pindah alamat ke 'Jl.Slamet Riyadi 34'.**

```
MariaDB [perbankan]> select * from nasabah;
+------------+-------------------+----------------------+
| id_nasabah | nama_nasabah      | alamat_nasabah       |
+------------+-------------------+----------------------+
|          1 | Sutopo            | Jl.Jendral Sudirman 12 |
|          2 | Maryati           | Jl.MT.Haryono 31     |
|          3 | Suparman          | Jl.Hasanudin 81      |
|          4 | Kartika Padmasari | Jl.Manggis 15        |
|          5 | Budi Eko Prayogo  | Jl.Kantil 30         |
|          6 | Satria Eka Jaya   | Jl.Slamet Riyadi 45  |
|          7 | Indri Hapsari     | Jl.Sutoyo 5          |
|          8 | Sari Murti        | Jl.Pangandaran 11    |
|          9 | Canka Lokananta   | Jl.Tidar 86          |
|         10 | Budi Martono      | Jl.Merak 22          |
+------------+-------------------+----------------------+
10 rows in set (0.028 sec)

MariaDB [perbankan]> update nasabah set alamat_nasabah = 'Jl.Slamet Riyadi 34'
    -> where nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.229 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 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 Martono      | Jl.Merak 22          |
+------------+-------------------+----------------------+
```

   b. **Cabang dengan kota 'BRUW' pindah ke alamat 'Jl.A.Yani 23'.**

```
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 3         |
| 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 (0.033 sec)

MariaDB [perbankan]> update cabang_bank set alamat_cabang = 'Jl.A.Yani 23'
    -> where kode_cabang = 'BRUW';
Query OK, 1 row affected (0.229 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 3         |
| 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 (0.000 sec)
```

7. **Lakukan penghapusan untu kasus-kasus berikut.**

   a. **Nasabah dengan id '7' menutup rekeningnya**

```
MariaDB [perbankan]> select * from nasabah;
+------------+------------------+-----------------------+
| id_nasabah | nama_nasabah     | alamat_nasabah        |
+------------+------------------+-----------------------+
|          1 | Sutopo           | Jl.Jendral Sudirman 12 |
|          2 | Maryati          | Jl.MT.Haryono 31      |
|          3 | Suparman         | Jl.Hasanudin 81       |
|          4 | Kartika Padmasari | Jl.Manggis 15        |
|          5 | Budi Eko Prayogo | Jl.Kantil 30          |
|          6 | Satria Eka Jaya  | Jl.Slamet Riyadi 45   |
|          7 | Indri Hapsari    | Jl.Slamet Riyadi 34   |
|          8 | Sari Murti       | Jl.Pangandaran 11     |
|          9 | Canka Lokananta  | Jl.Tidar 86           |
|         10 | Budi Martono     | Jl.Merak 22           |
+------------+------------------+-----------------------+
10 rows in set (0.001 sec)

MariaDB [perbankan]> delete from nasabah
    -> where id_nasabah = 7;
Query OK, 1 row affected (0.196 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 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 Martono     | Jl.Merak 22           |
+------------+------------------+-----------------------+
9 rows in set (0.000 sec)
```

   b. **Cabang dengan nama_cabang 'Bank Rut Unit Magelang' menutup kantornya**

```
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 3      |
| 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 (0.000 sec)

MariaDB [perbankan]> delete from cabang_bank
    -> where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.187 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 3      |
| 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 (0.000 sec)
```