Nama : Diah Fitri Ramadhani
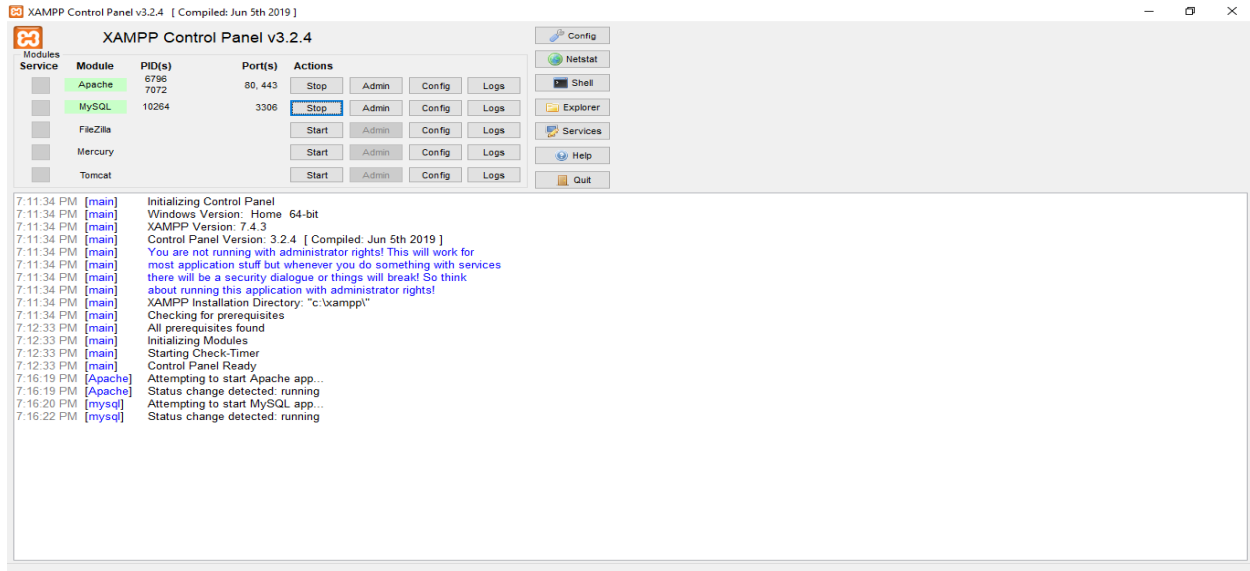
NIM   : L200180106

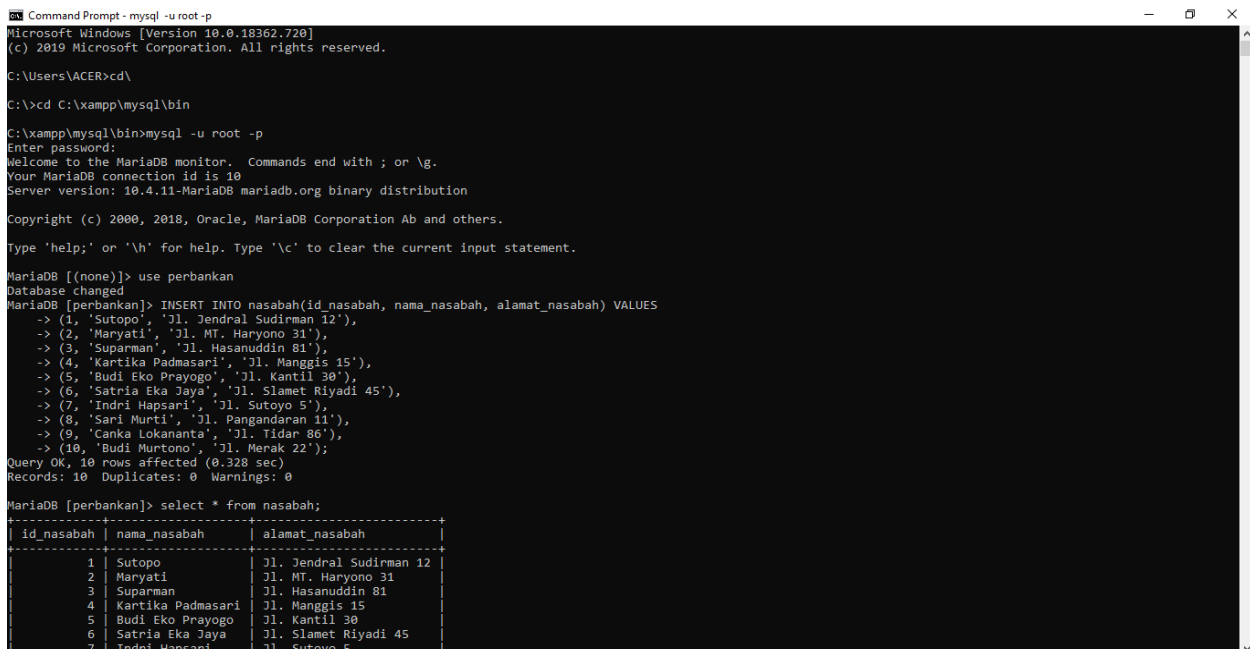Kelas : D

Modul 5 Sistem Basis Data

1. Langkah-Langkah Praktikum

a. Jalankan XAMPP Control Panel dan server Apache dan MySQL.

b. Buka Command Prompt dan login sebagai root ke MYSQL dan masukkan perintah "use perbankan". Kemudian masukkan data-data berikut ini ke dalam database perbankan.

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

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. Hasanuddin 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 (0.049 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'),
    -> ,'')
    -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ''')
)' at line 8
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 (0.215 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      |
```

```
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 (0.004 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', '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 (0.188 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 |
```

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

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)

MariaDB [perbankan]>  INSERT INTO nasabah_has_rekening(id_rekeningFK, no_rekeningFK) VALUES
    -> (1, 101),
    -> (1, 102),,)
    -> .,;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ')
.,' at line 3
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_rekeningFK, 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);
ERROR 1054 (42S22): Unknown column 'id_rekeningFK' in 'field list'
```

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

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 (0.097 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 (0.001 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),
    -> (2, 103, 2, 'debit', '2009-11-10', 40000),
```

```
MariaDB [perbankan]> INSERT INTO transaksii(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES
    -> (1, 105, 3, 'debit', '2009-11-10', 50000),
    -> (2, 103, 2, 'debit', '2009-11-10', 40000),(3, 101, 4, 'kredit', '2009-11-12', 20000),
    -> (4, 106, 3, 'debit', '2009-11-13', 50000),
    -> (5, 107, 5, 'kredit', '2009-11-13', 30000),
    -> (6, 104, 1, 'kredit', '2009-11-15', 200000),
    -> (7, 110, 9, 'kredit', '2009-11-15', 150000),(8, 102, 5, 'debit', '2009-11-16', 20000),
    -> (9, 105, 3, 'debit', '2009-11-18', 50000),
    -> (10, 107, 4, 'debit', '2009-11-19', 100000),
    -> (11, 103, 2, 'debit', '2009-11-19', 100000),
    -> (12, 104, 1, 'debit', '2009-11-19', 50000),
    -> (13, 107, 4, 'kredit', '2009-11-20', 200000),
    -> (14, 105, 3, 'debit', '2009-11-21', 40000),
    -> (15, 104, 1, 'kredit', '2009-11-22', 100000),
    -> (16, 101, 4, 'kredit', '2009-11-22', 20000),
    -> (17, 103, 2, 'debit', '2009-11-22', 50000),
    -> (18, 102, 5, 'debit', '2009-11-25', 50000),
    -> (19, 108, 10, 'debit', '2009-11-26', 100000),
    -> (20, 106, 3, 'kredit', '2009-11-27', 50000),
    -> (21, 103, 2, 'kredit', '2009-11-28', 200000),
    -> (22, 105, 3, 'kredit', '2009-11-28', 100000),
    -> (23, 102, 5, 'debit', '2009-11-30', 20000),
    -> (24, 104, 1, 'debit', '2009-12-1', 50000),
    -> (25, 103, 2, 'debit', '2009-12-2', 40000),
    -> (26, 101, 4, 'debit', '2009-12-4', 50000),
    -> (27, 103, 2, 'kredit', '2009-12-5', 100000),
    -> (28, 102, 5, 'kredit', '2009-12-5', 200000),
    -> (29, 109, 7, 'debit', '2009-12-5', 100000),
    -> (30, 110, 9, 'debit', '2009-12-6', 20000);
Query OK, 30 rows affected (0.198 sec)
Records: 30  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from transaksii;
+--------------+-------------+--------------+-----------------+---------------------+--------+
| 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 |          101 | 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 |
```

```
MariaDB [perbankan]> select * from transaksii;
+--------------+-------------+--------------+-----------------+---------------------+--------+
| 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 |          101 | 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 | debit           | 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]>
```

c. Lakukan update untuk kasus-kasus berikut ini.

   - nasabah dengan nama "Indri Hapsari" pindah alamat ke "Jalan Slamet Riyadi No.34".

   - cabang dengan kode "BRUW" pindah ke alamat "Jalan A. Yani No.23".

d. Lakukan penghapusan untuk kasus-kasus berikut.

   - nasabah dengan id "7" menutup rekeningnya.

   - cabang dengan nama_cabang "Bank Rut Unit Magelang" menutup kantornya.

```
MariaDB [perbankan]> UPDATE cabang_bank
    -> SET alamat_cabang = 'Jalan A. Yani No.23'
    -> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.234 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  | Jalan A. Yani No.23  |
| BRUY        | Bank Rut Unit Yogyakarta| Jl. Anggrek 21       |
+-------------+-------------------------+----------------------+
6 rows in set (0.000 sec)

MariaDB [perbankan]>
```

```
MariaDB [perbankan]> DELETE from nasabah
    -> WHERE id_nasabah = 7;
Query OK, 1 row affected (0.130 sec)

MariaDB [perbankan]> select from * nasabah;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'from * nasa
bah' at line 1
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. Hasanuddin 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 (0.000 sec)

MariaDB [perbankan]> DELETE from cabang_bank
    -> WHERE nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.143 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 (0.000 sec)

MariaDB [perbankan]>
```

2. Tugas

Masukkan beberapa record ke setiap table dalam database yang telah anda buat pada modul 4. Print out hasil implementasi dan analisa hasilnya. (masing-masing 10 record untuk table master dan 20 record untuk table transaksi).

```
Command Prompt - mysql  -u root -p                                                          —   □   ×
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES
    -> (11, 'Diah F', 'Jl. Patriot Sorong'),
    -> (12, 'Nimas P', 'Jl. Nusa Klaten'),
    -> (13, 'Putri Siwi', 'Jl. Cempaka Tegal'),
    -> (14, 'Hesti Sefria', 'Jl. Kenanga Palembang'),
    -> (15, 'Annisa G', 'Jl. Manggis Boyolali'),
    -> (16, 'Sevtika', 'Jl. Pahlawan Serang'),
    -> (17, 'Fira Kinanti', 'Jl. Baru Madiun'),
    -> (18, 'Viola', 'Jl. Mangga Wonogiri'),
    -> (19, 'Ayudia', 'Jl. Harapan Solo'),
    -> (20, 'Elsa P', 'Jl. Mojosongo');
Query OK, 10 rows affected (0.099 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. Hasanuddin 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 | Diah F           | Jl. Patriot Sorong      |
|         12 | Nimas P          | Jl. Nusa Klaten         |
|         13 | Putri Siwi       | Jl. Cempaka Tegal       |
|         14 | Hesti Sefria     | Jl. Kenanga Palembang   |
|         15 | Annisa G         | Jl. Manggis Boyolali    |
|         16 | Sevtika          | Jl. Pahlawan Serang     |
|         17 | Fira Kinanti     | Jl. Baru Madiun         |
|         18 | Viola            | Jl. Mangga Wonogiri     |
|         19 | Ayudia           | Jl. Harapan Solo        |
|         20 | Elsa P           | Jl. Mojosongo           |
+------------+------------------+-------------------------+
19 rows in set (0.001 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES
    -> ('BRUT', 'Bank Rut Unit Tegal', 'Jl. Sangaji 20'),
    -> ('BRUC', 'Bank Rut Unit Cirebon', 'Jl. Kota Cirebon 35'),
    -> ('BRUA', 'Bank Rut Unit Ambon', 'Jl. Kota Ambon 19'),
```

```
Command Prompt - mysql  -u root -p                                                          —   □   ×
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES
    -> ('BRUT', 'Bank Rut Unit Tegal', 'Jl. Sangaji 20'),
    -> ('BRUC', 'Bank Rut Unit Cirebon', 'Jl. Kota Cirebon 35'),
    -> ('BRUA', 'Bank Rut Unit Ambon', 'Jl. Kota Ambon 19'),
    -> ('BRUL', 'Bank Rut Unit Lampung', 'Jl. Lampung 11'),
    -> ('BRUP', 'Bank Rut Unit Palembang', 'Jl. Palembang 76'),
    -> ('BRUR', 'Bank Rut Unit Rembang', 'Jl. Kab. Rembang 2'),
    -> ('BRUJ', 'Bank Rut Unit Jember', 'Jl. Kab. Jember 71'),
    -> ('BRUD', 'Bank Rut Unit Depok', 'Jl. Depokan 4'),
    -> ('BRUI', 'Bank Rut Unit Indramayu', 'Jl. Indra 47'),
    -> ('BRUN', 'Bank Rut Unit Nanggroe', 'Jl. Nanggroe Kota 9');
Query OK, 10 rows affected (0.108 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
+-------------+-------------------------+---------------------+
| kode_cabang | nama_cabang             | alamat_cabang       |
+-------------+-------------------------+---------------------+
| BRUA        | Bank Rut Unit Ambon     | Jl. Kota Ambon 19   |
| BRUB        | Bank Rut Unit Boyolali  | Jl. Ahmad Yani 45   |
| BRUC        | Bank Rut Unit Cirebon   | Jl. Kota Cirebon 35 |
| BRUD        | Bank Rut Unit Depok     | Jl. Depokan 4       |
| BRUI        | Bank Rut Unit Indramayu | Jl. Indra 47        |
| BRUJ        | Bank Rut Unit Jember    | Jl. Kab. Jember 71  |
| BRUK        | Bank Rut Unit Klaten    | Jl. Suparman 23     |
| BRUL        | Bank Rut Unit Lampung   | Jl. Lampung 11      |
| BRUN        | Bank Rut Unit Nanggroe  | Jl. Nanggroe Kota 9 |
| BRUP        | Bank Rut Unit Palembang | Jl. Palembang 76    |
| BRUR        | Bank Rut Unit Rembang   | Jl. Kab. Rembang 2  |
| BRUS        | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18|
| BRUT        | Bank Rut Unit Tegal     | Jl. Sangaji 20      |
| BRUW        | Bank Rut Unit Wonogiri  | Jalan A. Yani No.23 |
| BRUY        | Bank Rut Unit Yogyakarta| Jl. Anggrek 21      |
+-------------+-------------------------+---------------------+
15 rows in set (0.033 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES
    -> (114, 'BRUA', '1444', 700000),
    -> (115, 'BRUB', '1551', 500000),
    -> (116, 'BRUT', '1666', 525000),
    -> (117, 'BRUC', '1122', 255000),
    -> (118, 'BRUL', '1333', 355000),
    -> (119, 'BRUP', '1771', 240000),
```

```
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES
    -> (114, 'BRUA', '1444', 700000),
    -> (115, 'BRUB', '1551', 500000),
    -> (116, 'BRUT', '1666', 525000),
    -> (117, 'BRUC', '1122', 255000),
    -> (118, 'BRUL', '1333', 355000),
    -> (119, 'BRUP', '1771', 240000),
    -> (120, 'BRUR', '1181', 520000),
    -> (121, 'BRUJ', '1199', 75000),
    -> (123, 'BRUD', '1225', 50000),
    -> (124, 'BRUI', '1525', 120000);
Query OK, 10 rows affected (0.127 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          | 1444 |  700000 |
|         115 | BRUB          | 1551 |  500000 |
|         116 | BRUT          | 1666 |  525000 |
|         117 | BRUC          | 1122 |  255000 |
|         118 | BRUL          | 1333 |  355000 |
|         119 | BRUP          | 1771 |  240000 |
|         120 | BRUR          | 1181 |  520000 |
|         121 | BRUJ          | 1199 |   75000 |
|         123 | BRUD          | 1225 |   50000 |
|         124 | BRUI          | 1525 |  120000 |
+-------------+---------------+------+---------+
23 rows in set (0.001 sec)
```

```
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES
    -> (11, 114),
    -> (12, 115),
    -> (13, 116),
    -> (14, 117),
    -> (15, 118),
    -> (16, 119),
    -> (17, 120),
    -> (18, 121),
    -> (19, 123),
    -> (20, 124);
Query OK, 10 rows affected (0.134 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * nasabah_has_rekening;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'nasabah_has
_rekening' at line 1
MariaDB [perbankan]> select * from nasabah_has_rekening;
+--------------+---------------+
| id_nasabahFK | no_rekeningFK |
+--------------+---------------+
|            1 |           104 |
|            2 |           103 |
|            3 |           105 |
|            3 |           106 |
|            4 |           101 |
|            4 |           107 |
|            5 |           102 |
|            5 |           107 |
|            6 |           109 |
|            7 |           109 |
|            8 |           111 |
|            8 |           112 |
|            9 |           110 |
|           10 |           108 |
|           10 |           113 |
|           11 |           114 |
|           12 |           115 |
|           13 |           116 |
|           14 |           117 |
|           15 |           118 |
|           16 |           119 |
|           17 |           120 |
|           18 |           121 |
```

```
_rekening' at line 1
MariaDB [perbankan]> select * from nasabah_has_rekening;
+-------------+---------------+
| id_nasabahFK | no_rekeningFK |
+-------------+---------------+
|           1 |           104 |
|           2 |           103 |
|           3 |           105 |
|           3 |           106 |
|           4 |           101 |
|           4 |           107 |
|           5 |           102 |
|           5 |           107 |
|           6 |           109 |
|           7 |           109 |
|           8 |           111 |
|           8 |           112 |
|           9 |           110 |
|          10 |           108 |
|          10 |           113 |
|          11 |           114 |
|          12 |           115 |
|          13 |           116 |
|          14 |           117 |
|          15 |           118 |
|          16 |           119 |
|          17 |           120 |
|          18 |           121 |
|          19 |           123 |
|          20 |           124 |
+-------------+---------------+
25 rows in set (0.001 sec)

MariaDB [perbankan]> INSERT INTO transaksii(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES
    -> (31, 114, 11, 'debit', '2020-01-01', 40000),
    -> (32, 115, 12, 'debit', '2020-01-01', 70000),
    -> (33, 116, 13, 'debit', '2020-01-05', 100000),
    -> (34, 117, 14, 'kredit', '2020-01-06', 255000),
    -> (35, 114, 11, 'debit', '2020-01-07', 300000),
    -> (36, 115, 12, 'debit', '2020-01-07', 50000),
    -> (37, 118, 15, 'kredit', '2020-01-08', 90000),
    -> (38, 118, 15, 'debit', '2020-01-09', 100000),
    -> (39, 119, 16, 'kredit', '2020-01-10', 30000),
    -> (40, 118, 15, 'debit', '2020-01-10', 80000),
```

```
MariaDB [perbankan]> INSERT INTO transaksii(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES
    -> (31, 114, 11, 'debit', '2020-01-01', 40000),
    -> (32, 115, 12, 'debit', '2020-01-01', 70000),
    -> (33, 116, 13, 'debit', '2020-01-05', 100000),
    -> (34, 117, 14, 'kredit', '2020-01-06', 255000),
    -> (35, 114, 11, 'debit', '2020-01-07', 300000),
    -> (36, 115, 12, 'debit', '2020-01-07', 50000),
    -> (37, 118, 15, 'kredit', '2020-01-08', 90000),
    -> (38, 118, 15, 'debit', '2020-01-09', 100000),
    -> (39, 119, 16, 'kredit', '2020-01-10', 30000),
    -> (40, 118, 15, 'debit', '2020-01-10', 80000),
    -> (41, 119, 16, 'debit', '2020-01-11', 100000),
    -> (42, 120, 17, 'kredit', '2020-01-11', 70000),
    -> (43, 117, 14, 'debit', '2020-01-12', 100000),
    -> (44, 120, 17, 'debit', '2020-01-12', 130000),
    -> (45, 121, 18, 'kredit', '2020-01-12', 400000),
    -> (46, 123, 19, 'debit', '2020-01-13', 100000),
    -> (47, 124, 20, 'debit', '2020-01-14', 200000),
    -> (48, 121, 18, 'debit', '2020-01-14', 150000),
    -> (49, 123, 19, 'kredit', '2020-01-15', 200000),
    -> (50, 124, 20, 'debit', '2020-01-16', 140000);
Query OK, 20 rows affected (0.162 sec)
Records: 20  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from transaksii;
+-------------+--------------+---------------+-----------------+---------------------+--------+
| 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 |           101 | 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 | debit           | 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 |
```

```
|     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 |
|     31 |       11 |      114 | debit  | 2020-01-01 00:00:00 |  40000 |
|     32 |       12 |      115 | debit  | 2020-01-01 00:00:00 |  70000 |
|     33 |       13 |      116 | debit  | 2020-01-05 00:00:00 | 100000 |
|     34 |       14 |      117 | kredit | 2020-01-06 00:00:00 | 255000 |
|     35 |       11 |      114 | debit  | 2020-01-07 00:00:00 | 300000 |
|     36 |       12 |      115 | debit  | 2020-01-07 00:00:00 |  50000 |
|     37 |       15 |      118 | kredit | 2020-01-08 00:00:00 |  90000 |
|     38 |       15 |      118 | debit  | 2020-01-09 00:00:00 | 100000 |
|     39 |       16 |      119 | kredit | 2020-01-10 00:00:00 |  30000 |
|     40 |       15 |      118 | debit  | 2020-01-10 00:00:00 |  80000 |
|     41 |       16 |      119 | debit  | 2020-01-11 00:00:00 | 100000 |
|     42 |       17 |      120 | kredit | 2020-01-11 00:00:00 |  70000 |
|     43 |       14 |      117 | debit  | 2020-01-12 00:00:00 | 100000 |
|     44 |       17 |      120 | debit  | 2020-01-12 00:00:00 | 130000 |
|     45 |       18 |      121 | kredit | 2020-01-12 00:00:00 | 400000 |
|     46 |       19 |      123 | debit  | 2020-01-13 00:00:00 | 100000 |
|     47 |       20 |      124 | debit  | 2020-01-14 00:00:00 | 200000 |
|     48 |       18 |      121 | debit  | 2020-01-14 00:00:00 | 150000 |
|     49 |       19 |      123 | kredit | 2020-01-15 00:00:00 | 200000 |
|     50 |       20 |      124 | debit  | 2020-01-16 00:00:00 | 140000 |
+--------------+----------+----------+--------+---------------------+--------+
50 rows in set (0.031 sec)
```