Nama   : Alif Al Amin
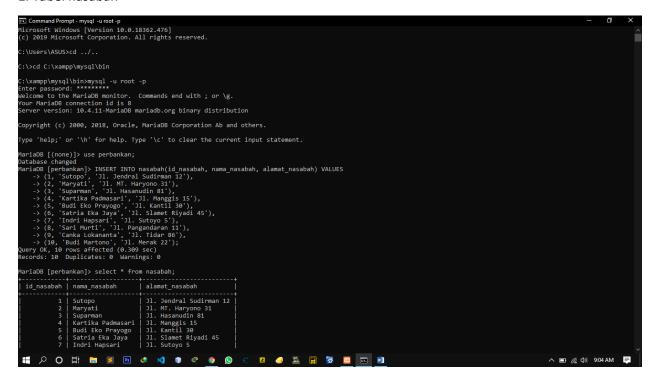
NIM   : L200180082
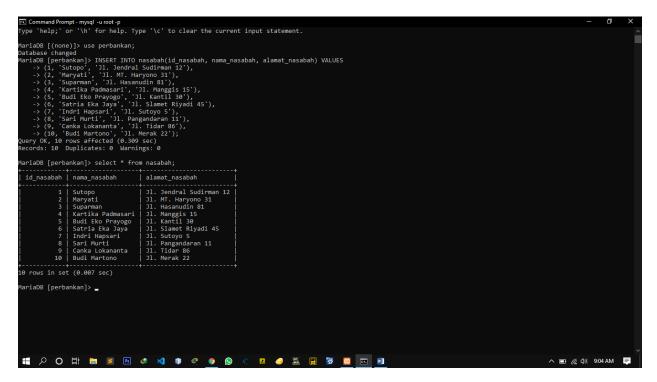
Kelas   : D

Laporan Praktikum Modul 5

A. Kegiatan Praktikum

1. Tabel nasabah

2. Tabel cabang_bank
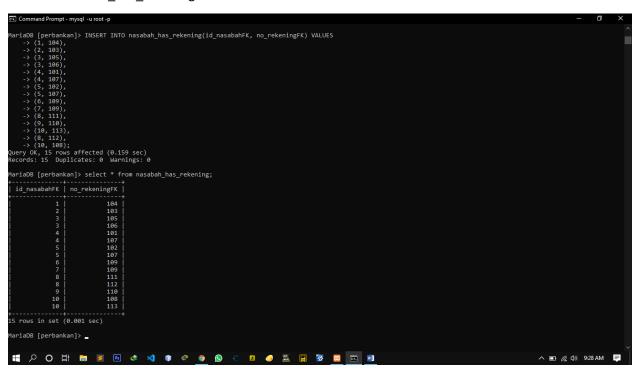

3. Tabel rekening

4. Tabel nasabah_has_rekening

5. Tabel transaksi

```
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),
    -> (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, 'kredit', '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 (0.236 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           | 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 |
```

```
+--------------+--------------+--------------+-----------------+---------------------+--------+
| 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 | 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]> _
```
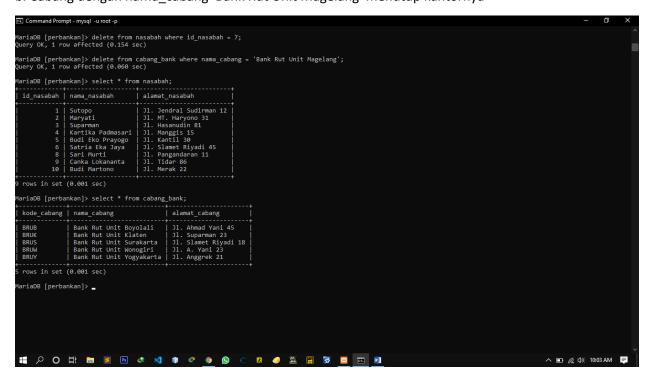
6. Lakukan update untuk kasus berikut:

a. Nasabah nama 'Indri Hapsari' pindah kealamat 'Jalan Slamet Riyadi No.34'

b. cabang dengan kode 'BRUW' pindah ke alamat 'Jalan A. Yani No. 23'

```
MariaDB [perbankan]> UPDATE nasabah
    -> SET alamat_nasabah = 'Jl. Slamet Riyadi 34'
    -> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.197 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perbankan]> UPDATE cabang_bank
    -> SET alamat_cabang = 'Jl. A. Yani 23'
    -> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.160 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         |
+-----------+------------------+----------------------+
10 rows in set (0.001 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      |
| 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 (0.001 sec)

MariaDB [perbankan]>
```

7. Lakukan penghapusan untuk kasus berikut:

a. Nasabah dengan id '7' menutup rekeningnya

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

```
MariaDB [perbankan]> delete from nasabah where id_nasabah = 7;
Query OK, 1 row affected (0.154 sec)

MariaDB [perbankan]> delete from cabang_bank where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.060 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 (0.001 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 | Jl. A. Yani 23       |
| BRUY        | Bank Rut Unit Yogyakarta| Jl. Anggrek 21      |
+-------------+------------------------+----------------------+
5 rows in set (0.001 sec)

MariaDB [perbankan]>
```

B. Tugas

1. Tabel nasabah

2. Tabel cabang_bank

3. Tabel rekening

4. Tabel transaksi

```
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (41, 11, 10, 'debit', '2020-01-10', 1000000);
Query OK, 1 row affected (0.041 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (42, 102, 12, 'kredit', '2020-01-12', 200000);
Query OK, 1 row affected (0.041 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (43, 103, 13, 'kredit', '2020-01-13', 300000);
Query OK, 1 row affected (0.039 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (44, 103, 14, 'kredit', '2020-01-14', 400000);
Query OK, 1 row affected (0.036 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (45, 105, 15, 'kredit', '2020-01-15', 500000);
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (46, 106, 16, 'kredit', '2020-01-16', 600000);
Query OK, 1 row affected (0.032 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (47, 107, 17, 'kredit', '2020-01-17', 700000);
Query OK, 1 row affected (0.037 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (48, 108, 18, 'kredit', '2020-01-18', 800000);
Query OK, 1 row affected (0.039 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (49, 109, 19, 'kredit', '2020-01-19', 900000);
Query OK, 1 row affected (0.037 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (50, 110, 20, 'kredit', '2020-01-20', 1000000);
Query OK, 1 row affected (0.031 sec)

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

```
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 |           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 | 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 |
|           31 |          101 |             1 | debit           | 2020-01-01 00:00:00 |  100000 |
|           32 |          102 |             2 | debit           | 2020-01-02 00:00:00 |  200000 |
|           33 |          103 |             3 | debit           | 2020-01-03 00:00:00 |  300000 |
|           34 |          104 |             4 | debit           | 2020-01-04 00:00:00 |  400000 |
|           35 |          105 |             5 | debit           | 2020-01-05 00:00:00 |  500000 |
|           36 |          106 |             6 | debit           | 2020-01-06 00:00:00 |  600000 |
|           37 |          107 |             7 | debit           | 2020-01-07 00:00:00 |  700000 |
|           38 |          108 |             8 | debit           | 0000-00-00 00:00:00 |  700000 |
|           39 |          109 |             9 | debit           | 2020-01-09 00:00:00 |  900000 |
|           40 |          110 |            10 | debit           | 2020-01-10 00:00:00 | 1000000 |
|           41 |           11 |            10 | debit           | 2020-01-10 00:00:00 | 1000000 |
|           42 |          102 |            12 | kredit          | 2020-01-12 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 |          101 |             1 | debit           | 2020-01-01 00:00:00 |  100000 |
|           32 |          102 |             2 | debit           | 2020-01-02 00:00:00 |  200000 |
|           33 |          103 |             3 | debit           | 2020-01-03 00:00:00 |  300000 |
|           34 |          104 |             4 | debit           | 2020-01-04 00:00:00 |  400000 |
|           35 |          105 |             5 | debit           | 2020-01-05 00:00:00 |  500000 |
|           36 |          106 |             6 | debit           | 2020-01-06 00:00:00 |  600000 |
|           37 |          107 |             7 | debit           | 2020-01-07 00:00:00 |  700000 |
|           38 |          108 |             8 | debit           | 0000-00-00 00:00:00 |  700000 |
|           39 |          109 |             9 | debit           | 2020-01-09 00:00:00 |  900000 |
|           40 |          110 |            10 | debit           | 2020-01-10 00:00:00 | 1000000 |
|           41 |           11 |            10 | debit           | 2020-01-10 00:00:00 | 1000000 |
|           42 |          102 |            12 | kredit          | 2020-01-12 00:00:00 |  200000 |
|           43 |          103 |            13 | kredit          | 2020-01-13 00:00:00 |  300000 |
|           44 |          103 |            14 | kredit          | 2020-01-14 00:00:00 |  400000 |
|           45 |          105 |            15 | kredit          | 2020-01-15 00:00:00 |  500000 |
|           46 |          106 |            16 | kredit          | 2020-01-16 00:00:00 |  600000 |
|           47 |          107 |            17 | kredit          | 2020-01-17 00:00:00 |  700000 |
|           48 |          108 |            18 | kredit          | 2020-01-18 00:00:00 |  800000 |
|           49 |          109 |            19 | kredit          | 2020-01-19 00:00:00 |  900000 |
|           50 |          110 |            20 | kredit          | 2020-01-20 00:00:00 | 1000000 |
+--------------+--------------+---------------+-----------------+---------------------+---------+
```