Nama: Ayudhia Isnafiani Fanada

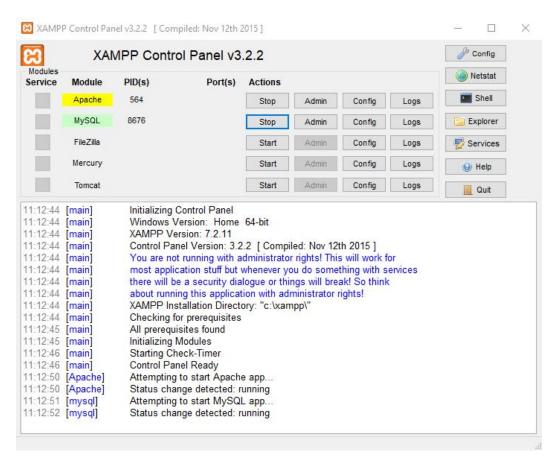
NIM : L200180095

Kelas: D

PRAKTIKUM SISTEM BASIS DATA MODUL 5

D. Langkah-langkah Praktikum

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



2. Buka Command Prompt dan login sebagai root ke MySQL. Kemudian pilih database perbankan.

```
Microsoft Windows [Version 10.0.17763.1098]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Ayudhia>cd\

C:\\cd C:\xampp\mysql\bin>mysql\bin

C:\xampp\mysql\bin>mysql\bin>mysql\bin

C:\xampp\mysql\bin>mysql\bin>monitor. Commands end with ; or \g.
Your MariaDB connection id is 6
Server version: 10.1.36-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use perbankan;
Database changed
```

3. Kemudian masukkan data-data berikut ke dalam database perbankan.

Tabel: nasabah

```
riaDB [(none)]> use perbankan;
tabase changed
riaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(1, 'Sutopo', 'Jl. Jendral Sudirman 12');
ery OK, 1 row affected (0.09 sec)
 ariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(2, 'Maryati', 'Jl. MT. Haryono 31');
uery OK, 1 row affected (0.08 sec)
 ariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(3, 'Suparman', 'Jl. Hasanudin 81');
uery OK, 1 row affected (0.03 sec)
ariaDB [perbankan]> INSERT INTO nasabah(id nasabah, nama nasabah, alamat nasabah) VALUES(4. 'Kartika Padmasari', 'Jl. Manggis 15')
ariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(5, 'Budi Eko Prayogo', 'Jl. Kantil 30');
uery OK, 1 row affected (0.07 sec)
 riaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(6, 'Satria Eka Jaya', 'Jl. Slamet Riyadi
 uery OK, 1 row affected (0.07 sec)
ariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(7, 'Indri Hapsari', 'Jl. Sutoyo 5');
uery OK, 1 row affected (0.07 sec)
Command Prompt - mysql -u root -p
ariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(8, 'Sari Murti', 'Jl. Pangandaran 11');
uery OK, 1 row affected (0.07 sec)
ariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(9, 'Canka Lokananta', 'Jl. Tidar 86');
uery OK, 1 row affected (0.04 sec)
ariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(10, 'Budi Murtono', 'Jl. Merak 22');
uery OK, 1 row affected (0.06 sec)
 ariaDB [perbankan]> select *from nasabah;
                                               Jl. Jendral Sudirman 12

Jl. Mi. Haryono 31

Jl. Hasanudin 81

Jl. Manggis 15

Jl. Kantil 30

Jl. Slamet Riyadi 45

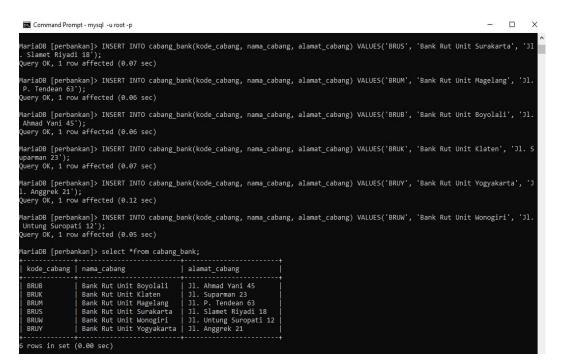
Jl. Sutoyo 5

Jl. Pangandaran 11

Jl. Tidar 86

Jl. Merak 22
                   Sutopo
Maryati
                Maryati
Suparman
Kartika Padmasari
Budi Eko Prayogo
Satria Eka Jaya
Indri Hapsari
Sari Murti
Canka Lokananta
Budi Murtono
   rows in set (0.00 sec)
```

Tabel: cabang bank



Tabel: rekening

```
Command Prompt - mysql -u root -p
                                                                                                                                                   - 🗆
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(101, 'BRUS', '1111', 500000);
Query OK, 1 row affected (0.04 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(102, 'BRUS', '2222', 350000);
Query OK, 1 row affected (0.07 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(103, 'BRUS', '3333', 750000);
Query OK, 1 row affected (0.06 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(104, 'BRUM', '4444', 900000);
Query OK, 1 row affected (0.07 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(105, 'BRUM', '5555', 2000000);
Query OK, 1 row affected (0.07 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(106, 'BRUS', '6666', 3000000);
Query OK, 1 row affected (0.05 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(107, 'BRUS', '7777', 1000000);
Query OK, 1 row affected (0.06 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(108, 'BRUB', '0000', 5000000);
Query OK, 1 row affected (0.06 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(109, 'BRUB', '9999', 0);
Query OK, 1 row affected (0.04 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(110, 'BRUY', '1234', 550000);
Query OK, 1 row affected (0.07 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(111, 'BRUK', '4321', 150000);
Query OK, 1 row affected (0.06 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(112, 'BRUK', '0123', 300000);
Query OK, 1 row affected (0.06 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(113, 'BRUY', '8888', 255000);
 uery OK, 1 row affected (0.05 sec)
```

o_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

Tabel: nasabah has rekening

```
Command Prompt - mysql -u root -p
                                                                                                                                       X
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(1, 104);
Query OK, 1 row affected (0.08 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(2, 103);
Query OK, 1 row affected (0.08 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(3, 105);
Query OK, 1 row affected (0.05 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(3, 106);
Query OK, 1 row affected (0.11 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(4, 101);
Query OK, 1 row affected (0.09 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(4, 107);
Query OK, 1 row affected (0.05 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(5, 102);
Query OK, 1 row affected (0.05 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(5, 107);
Query OK, 1 row affected (0.03 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(6, 109);
Query OK, 1 row affected (0.06 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(7, 109);
Query OK, 1 row affected (0.03 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(8, 111);
Query OK, 1 row affected (0.05 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(9, 110);
Query OK, 1 row affected (0.05 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(10, 113);
Query OK, 1 row affected (0.03 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(8, 112);
Query OK, 1 row affected (0.05 sec)
```

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

Tabel: transaksi

```
Command Prompt - mysql -u root -p
 MariaOB [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 (0.06 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 (0.10 sec)
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah)
VALUES(3, 101, 4, 'kredit', '2009-11-12', 20000);
Query OK, 1 row affected (0.07 sec)
 lariaOB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah)
VALUES(4, 106, 3, 'debit', '2009-11-13', 50000);
Duery OK, 1 row affected (0.07 sec)
 ariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah)
VALUES(5, 107, 5, 'kredit', '2009-11-13', 30000);
wery OK, 1 row affected (0.07 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 (0.05 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 (0.07 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 (0.07 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 (0.06 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 (0.05 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);
 Command Prompt - mysgl -u root -p
 MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah)
VALUES(12, 104, 1, 'debit', '2009-11-19', 50000);
VALUES(12, 104, 1, 'debit', '2009-
Query OK, 1 row affected (0.10 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 (0.07 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 (0.10 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 (0.08 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 (0.06 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);
 VALUES(17, 103, 2, 'debit', '2009-:
Query OK, 1 row affected (0.09 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 (0.04 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 (0.10 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 (0.06 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 (0.05 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);
```

```
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 (0.06 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 (0.07 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 (0.06 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 (0.05 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 (0.07 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 (0.06 sec)

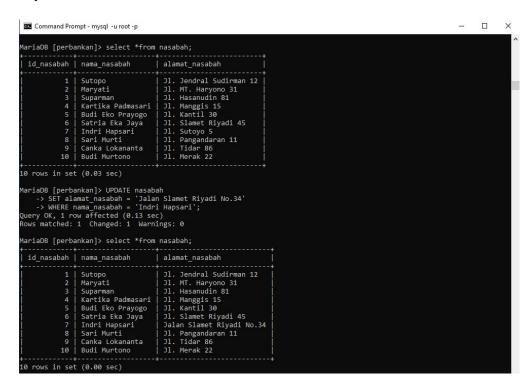
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah)
VALUES(28, 102, 5, 'kredit', '2009-12-5', 200000);
Query OK, 1 row affected (0.06 sec)

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 (0.13 sec)

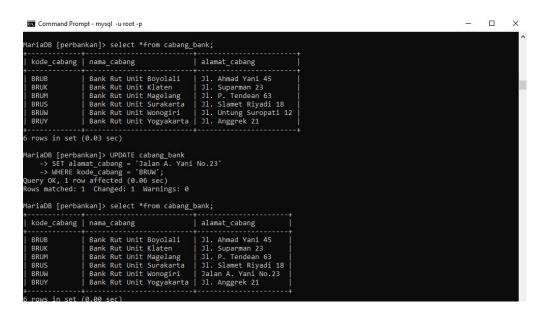
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah)
VALUES(30, 110, 9, 'debit', '2009-12-6', 20000);
Query OK, 1 row affected (0.04 sec)
```

o_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

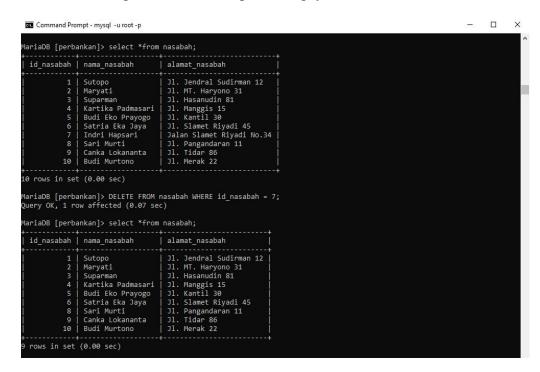
- 4. Lakukan update untuk kasus-kasus berikut ini.
 - a. Nasabah dengan nama "Indri Hapsari" pindah alamat ke "Jalan Slamet Riyadi No. 34"



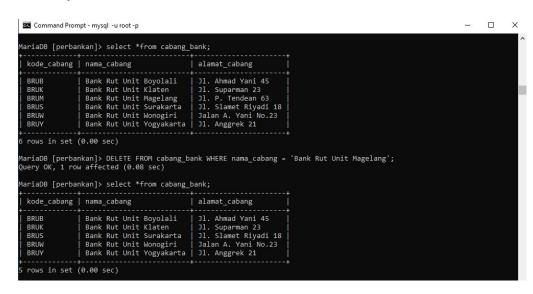
b. Cabang dengan kode "BRUW pindah ke alamat "Jalan A. Yani No.23"



- 5. Lakukan penghapusan untuk kasus-kasus berikut.
 - a. Nasabah dengan id "7" menutup rekeningnya.



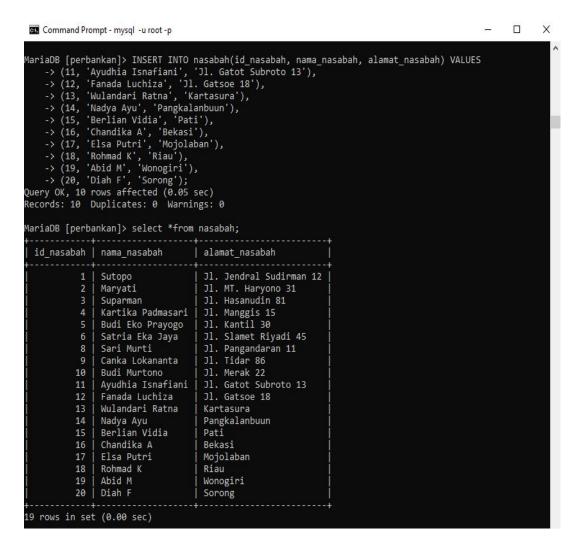
b. Cabang dengan nama_cabang "Bank Rut Unit Magelang" menutup kantornya.



E. Tugas

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

Tabel: nasabah



Tabel: cabang bank

```
П
  Command Prompt - mysql -u root -p
                                                                                                                                                                                                                                                              ×
Command Prompt-mysql -uroot-p

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES

-> ('BRUJ', 'Bank Rut Unit Jakarta', 'Jl. Soekarno 96'),
-> ('BRUD', 'Bank Rut Unit Denpasar', 'Jl. Moh Hatta 11'),
-> ('BRUT', 'Bank Rut Unit Tangerang', 'Jl. Moh Yamin 2'),
-> ('BRUC', 'Bank Rut Unit Cilegon', 'Jl. Slamet Riyadi 89'),
-> ('BRUG', 'Bank Rut Unit Gorontalo', 'Jl. Soeharto 1'),
-> ('BRUG', 'Bank Rut Unit Pekalongan', 'Jl. Soecipto 7'),
-> ('BRUAL', 'Bank Rut Unit Ambon', 'Jl. Dahlia 7'),
-> ('BRUL', 'Bank Rut Unit Lubuklinggau', 'Jl. Indah 34'),
-> ('BRUN', 'Bank Rut Unit Nganjuk', 'Jl. Berseri 54'),
-> ('BRUI', 'Bank Rut Unit Indramayu', 'Jl. Anggrek 61');
Query OK, 10 rows affected (0.09 sec)
Records: 10 Duplicates: 0 Warnings: 0
  MariaDB [perbankan]> select *from cabang_bank;
     kode_cabang | nama_cabang
                                                                                                             | alamat_cabang
                                        Bank Rut Unit Ambon
                                                                                                                 Jl. Dahlia 7
     BRUA
                                       Bank Rut Unit Boyolali
Bank Rut Unit Cilegon
Bank Rut Unit Denpasar
     BRUB
                                                                                                                  Jl. Ahmad Yani 45
                                                                                                                 Jl. SLamet Riyadi 89
     BRUC
                                                                                                                 Jl. Moh Hatta 11
Jl. Soeharto 1
     BRUD
                                        Bank Rut Unit Gorontalo
                                       Bank Rut Unit Indramayu
Bank Rut Unit Jakarta
                                                                                                                 Jl. Anggrek 61
Jl. Soekarno 96
     BRUI
     BRUJ
                                       Bank Rut Unit Jakarta
Bank Rut Unit Klaten
Bank Rut Unit Lubuklinggau
Bank Rut Unit Nganjuk
Bank Rut Unit Pekalongan
                                                                                                                 Jl. Suparman 23
     BRUK
     BRUL
                                                                                                                 Jl. Indah 34
                                                                                                                 Jl. Berseri 54
Jl. Soecipto 7
     BRUN
     BRUP
                                        Bank Rut Unit Surakarta
Bank Rut Unit Tangerang
Bank Rut Unit Wonogiri
     BRUS
                                                                                                                  Jl. Slamet Riyadi 18
     BRUT
                                                                                                                 Jl. Moh Yamin<sup>2</sup>
Jalan A. Yani No.23
     BRUW
     BRUY
                                        Bank Rut Unit Yogyakarta
                                                                                                                 Jl. Anggrek 21
15 rows in set (0.00 sec)
```

Tabel: rekening

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

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES

-> (114, 'BRUJ', 5678, 9000000),
-> (115, 'BRUD', 1100, 7000000),
-> (116, 'BRUT', 6116, 5000000),
-> (117, 'BRUC', 9609, 4000000),
-> (118, 'BRUG', 1001, 5500000),
-> (119, 'BRUG', 1001, 5500000),
-> (120, 'BRUA', 1991, 8000000),
-> (121, 'BRUL', 9876, 60000000),
-> (122, 'BRUN', 6006, 6500000),
-> (123, 'BRUI', 6543, 3500000);
Query OK, 10 rows affected (0.11 sec)

Records: 10 Duplicates: 0 Warnings: 0
  MariaDB [perbankan]> select *from rekening:
    no_rekening | kode_cabangFK | pin | saldo
                   102
                              BRUS
                                                                           350000
                   103
                             BRUS
                                                           3333
4444
                                                                          750000
                   104
                              BRUM
                                                                          900000
                   105
                              BRUM
                                                                         2000000
                   106
                              BRUS
                                                           6666
                                                                         3000000
                   107
                                                           7777
0000
                                                                         1000000
                              BRUS
                                                                         5000000
                   108
                              BRUB
                   109
                              BRUB
                                                           9999
                                                           1234
                                                                          550000
                   110
                              BRUY
                              BRUK
                                                                          150000
                              BRUK
                                                           0123
                                                                           300000
                              BRUY
                                                           8888
                                                                          255000
                   114
                              BRUJ
                                                           5678
                                                                         9000000
                              BRUD
                                                           1100
                              BRUT
                                                                         5000000
                   117
                                                           9669
                                                                         4000000
                              BRUC
                   118
                              BRUG
                                                           1001
                                                                         5500000
                   119
                              BRUP
                                                            2002
                                                                         7500000
                   120
                              BRITA
                                                           1991
                                                                         8000000
                              BRUL
                                                           9876
                                                                         6000000
                   121
                              BRUN
                   123
                              BRUT
                                                           6543
                                                                         3500000
  23 rows in set (0.00 sec)
```

Tabel: nasabah_has_rekening

```
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES
-> (11, 123),
-> (12, 122),
-> (13, 121),
-> (14, 120),
-> (15, 119),
-> (16, 118),
-> (17, 117),
-> (18, 116),
-> (19, 115),
-> (20, 114);
Query OK, 10 rows affected (0.08 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
MariaDB [perbankan]> select *from nasabah has rekening;
  id_nasabahFK | no_rekeningFK
                                  105
                                 106
                                  101
                                  107
                                  102
                                  107
                                  109
                                  109
                                  111
                                 110
108
               10
              10
11
12
13
14
15
16
                                 123
122
                                 120
119
               18
                                  116
               19
25 rows in set (0.00 sec)
```

Tabel: transaksi

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK,jenis_transaksi, tanggal, jumlah) VALUES

-> (31, 123, 11, 'debit', '2010-01-03', 7000000),
-> (32, 123, 11, 'kredit', '2010-01-04', 800000),
-> (33, 122, 12, 'kredit', '2010-01-04', 500000),
-> (34, 121, 13, 'kredit', '2010-01-07', 500000),
-> (35, 119, 15, 'kredit', '2010-01-07', 450000),
-> (36, 119, 15, 'kredit', '2010-01-07', 450000),
-> (37, 116, 18, 'kredit', '2010-01-12', 350000),
-> (38, 120, 14, 'debit', '2010-01-12', 750000),
-> (39, 121, 13, 'debit', '2010-01-16', 800000),
-> (40, 118, 16, 'debit', '2010-01-16', 100000),
-> (41, 118, 16, 'kredit', '2010-01-17', 300000),
-> (42, 118, 17, 'debit', '2010-01-17', 300000),
-> (43, 114, 20, 'kredit', '2010-01-20', 775000),
-> (44, 115, 19, 'kredit', '2010-01-20', 975000),
-> (45, 115, 19, 'debit', '2010-01-20', 975000),
-> (46, 116, 18, 'debit', '2010-01-22', 650000),
-> (47, 122, 12, 'debit', '2010-01-22', 500000),
-> (48, 120, 14, 'kredit', '2010-01-22', 500000),
-> (49, 117, 17, 'kredit', '2010-01-24', 350000),
-> (50, 114, 20, 'debit', '2010-01-24', 350000),
-> (50, 114, 20, 'debit', '2010-01-24', 350000),
-> (50, 104, 20, 'debit', '2010-01-24', 350000),
-> (50, 20 rows affected (0.18 sec)
Records: 20 Duplicates: 0 Warnings: 0
```

and [bei.naii	riaDB [perbankan]> select *from transaksi;						
_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		
	4	101	kredit	2009-11-12 00:00:00	20000		
4	3	106	debit	2009-11-13 00:00:00	50000		
	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	11	123	debit	2010-01-03 00:00:00	700000		
32	11	123	kredit	2010-01-04 00:00:00	800000		
33	12	122	kredit	2010-01-04 00:00:00	500000		
34	13	121	kredit	2010-01-07 00:00:00	500000		

34	13	121	kredit	2010-01-07 00:00:00	500000
35	15	119	debit	2010-01-07 00:00:00	450000
36	15	119	kredit	2010-01-08 00:00:00	550000
37	18	116	kredit	2010-01-12 00:00:00	350000
38	14	120	debit	2010-01-12 00:00:00	750000
39	13	121	debit	2010-01-16 00:00:00	800000
40	16	118	debit	2010-01-16 00:00:00	100000
41	16	118	kredit	2010-01-17 00:00:00	300000
42	17	118	debit	2010-01-17 00:00:00	275000
43	20	114	kredit	2010-01-20 00:00:00	775000
44	19	115	kredit	2010-01-20 00:00:00	975000
45	19	115	debit	2010-01-20 00:00:00	555000
46	18	116	debit	2010-01-22 00:00:00	650000
47	12	122	debit	2010-01-22 00:00:00	500000
48	14	120	kredit	2010-01-23 00:00:00	300000
49	17	117	kredit	2010-01-24 00:00:00	350000
50	20	114	debit	2010-01-24 00:00:00	750000