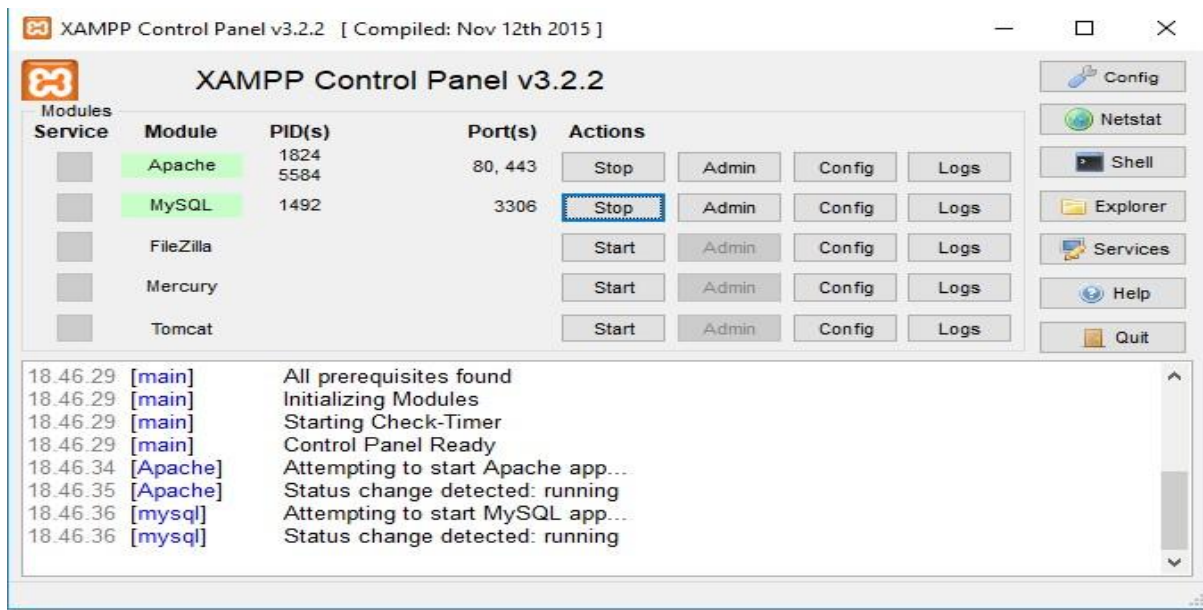


Nama : Rossanti Kusumadewi
NIM : L200170092
Kelas : D

Langkah-langkah Praktikum :

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



2. Buka Command Prompt dan login sebagai root ke MySQL

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.17134.648]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Customer>CD ..
C:\Users>cd ..
C:\>cd C:\xampp\mysql\bin
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 2
Server version: 10.1.30-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> show databases
-> ;
```

3. Pilih data base perbankan dengan perintah “use perbankan”

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

4. Masukkan data-data kedalam database perbankan

- a. Nasabah

```
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
VALUES(1, 'Sutopo', 'Jl. Jendral Sudirman 12'),
-> (2, 'Maryati', 'Jl. MT. Haryono 31'),
-> (3, 'Suparnan', '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 Murtono', 'Jl. Merak 22');
Query OK, 10 rows affected (0.02 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	Suparnan	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 Murtono	Jl. Merak 22

```
10 rows in set (0.00 sec)
```

- b. Cabang Bank

```
C:\Windows\system32\cmd.exe - mysql -u root

MariaDB [perbankan]>
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'),
-> ('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21'),
-> ('BRUW', 'Bank Rut Unit Wonogiri', 'Jl. Untung Suropati 12');
Query OK, 5 rows affected (0.02 sec)
Records: 5 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
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

```
5 rows in set (0.00 sec)

MariaDB [perbankan]>
```

c. Rekening

```
C:\Windows\system32\cmd.exe - mysql -u root
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 (0.02 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 (0.00 sec)

MariaDB [perbankan]> _
```

d. Nasabah_has_rekening

```
C:\Windows\system32\cmd.exe - mysql -u root
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),
-> (5, 109),
-> (7, 109),
-> (8, 111),
-> (9, 110),
-> (10, 113),
-> (8, 112),
-> (10, 108);
Query OK, 15 rows affected (0.05 sec)
Records: 15 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from 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 'fro
m 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 |
| 5 | 109 |
| 7 | 109 |
| 8 | 111 |
| 8 | 112 |
| 9 | 110 |
| 10 | 108 |
| 10 | 113 |
+----+-----+
15 rows in set (0.00 sec)

MariaDB [perbankan]>
```

e. Transaksi

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
MariaDB [perbankan]> insert into transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, jumlah)
-> values (1, 105, 3, 'debit', 50000),
-> (2, 103, 2, 'debit', 40000),
-> (3, 101, 4, 'kredit', 20000),
-> (4, 106, 3, 'debit', 30000),
-> (5, 107, 5, 'kredit', 50000),
-> (6, 104, 1, 'kredit', 200000),
-> (7, 110, 9, 'kredit', 150000),
-> (8, 102, 5, 'debit', 20000),
-> (9, 105, 3, 'kredit', 50000),
-> (10, 107, 4, 'debit', 100000),
-> (11, 103, 2, 'debit', 100000),
-> (12, 104, 1, 'debit', 50000),
-> (13, 107, 4, 'kredit', 200000),
-> (14, 105, 3, 'debit', 40000),
-> (16, 101, 4, 'kredit', 20000),
-> (17, 103, 2, 'debit', 50000),
-> (18, 102, 5, 'debit', 50000),
-> (19, 108, 10, 'debit', 100000),
-> (20, 106, 3, 'redit', 50000),
-> (21, 103, 2, 'kredit', 200000),
-> (22, 105, 3, 'kredit', 100000),
-> (23, 102, 5, 'debit', 20000),
-> (24, 104, 1, 'debit', 50000),
-> (25, 103, 2, 'debit', 40000),
-> (26, 101, 4, 'debit', 50000),
-> (27, 103, 2, 'kredit', 100000),
-> (28, 102, 5, 'kredit', 200000),
-> (29, 109, 7, 'debit', 100000),
-> (30, 110, 9, 'debit', 20000);
Query OK, 29 rows affected (0.15 sec)
Records: 29 Duplicates: 0 Warnings: 0
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
MariaDB [perbankan]> select * from transaksi;
+----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal          | jumlah |
+----+-----+-----+-----+-----+-----+
| 1           | 3           | 105           | debit           | 2019-03-31 13:54:23 | 50000 |
| 2           | 2           | 103           | debit           | 2019-03-31 13:54:23 | 40000 |
| 3           | 4           | 101           | kredit          | 2019-03-31 13:54:23 | 20000 |
| 4           | 3           | 106           | debit           | 2019-03-31 13:54:23 | 30000 |
| 5           | 5           | 107           | kredit          | 2019-03-31 13:54:23 | 50000 |
| 6           | 1           | 104           | kredit          | 2019-03-31 13:54:23 | 200000 |
| 7           | 9           | 110           | kredit          | 2019-03-31 13:54:23 | 150000 |
| 8           | 5           | 102           | debit           | 2019-03-31 13:54:23 | 20000 |
| 9           | 3           | 105           | kredit          | 2019-03-31 13:54:23 | 50000 |
| 10          | 4           | 107           | debit           | 2019-03-31 13:54:23 | 100000 |
| 11          | 2           | 103           | debit           | 2019-03-31 13:54:23 | 100000 |
| 12          | 1           | 104           | debit           | 2019-03-31 13:54:23 | 50000 |
| 13          | 4           | 107           | kredit          | 2019-03-31 13:54:23 | 200000 |
| 14          | 3           | 105           | debit           | 2019-03-31 13:54:23 | 40000 |
| 16          | 4           | 101           | kredit          | 2019-03-31 13:54:23 | 20000 |
| 17          | 2           | 103           | debit           | 2019-03-31 13:54:23 | 50000 |
| 18          | 5           | 102           | debit           | 2019-03-31 13:54:23 | 50000 |
| 19          | 10          | 108           | debit           | 2019-03-31 13:54:23 | 100000 |
| 20          | 3           | 106           | kredit          | 2019-03-31 13:54:23 | 50000 |
| 21          | 2           | 103           | kredit          | 2019-03-31 13:54:23 | 200000 |
| 22          | 3           | 105           | kredit          | 2019-03-31 13:54:23 | 100000 |
| 23          | 5           | 102           | debit           | 2019-03-31 13:54:23 | 20000 |
| 24          | 1           | 104           | debit           | 2019-03-31 13:54:23 | 50000 |
| 25          | 2           | 103           | debit           | 2019-03-31 13:54:23 | 40000 |
| 26          | 4           | 101           | debit           | 2019-03-31 13:54:23 | 50000 |
| 27          | 2           | 103           | kredit          | 2019-03-31 13:54:23 | 100000 |
| 28          | 5           | 102           | kredit          | 2019-03-31 13:54:23 | 200000 |
| 29          | 7           | 109           | debit           | 2019-03-31 13:54:23 | 100000 |
| 30          | 9           | 110           | debit           | 2019-03-31 13:54:23 | 20000 |
+----+-----+-----+-----+-----+-----+
29 rows in set (0.00 sec)

MariaDB [perbankan]> .
```

5. Lakukan update untuk kasus-kasus berikut:

- Nasabah dengan nama “Indri Hapsari” pindah ke alamat “Jalan Slamet Riyadi No. 24”

- Sebelum di UPDATE

```
C:\Windows\system32\cmd.exe - mysql -u root
02/21/2019 12:22 PM <DIR> Users
03/29/2019 10:17 AM <DIR> Windows
02/22/2019 02:48 PM <DIR>xampp
2 File(s) 16,336,736 bytes
8 Dir(s) 192,821,354,496 bytes free

c:\>cd xampp
c:\xampp>cd mysql\bin
c:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 16
Server version: 10.1.37-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)]>
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> VALUES(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 Murtono', 'Jl. Merak 22');
Query OK, 10 rows affected (0.02 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from nasabah;
+----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 2 | Maryati | Jl. MT. Haryono 31 |
| 3 | Suparman | Jl. Hasanudin 81 |
| 4 | Kartika Padmasari | Jl. Manggis 15 |
| 5 | Budi Eko 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 (0.00 sec)
```

- Setelah di UPDATE

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
MariaDB [perbankan]> update nasabah set alamat_nasabah = 'Jalan Slamet Riyadi No. 34' WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.00 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 | Jalan Slamet Riyadi No. 34 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+----+-----+-----+
10 rows in set (0.00 sec)

MariaDB [perbankan]>
```

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

- Sebelum kode “BRUW” pindah ke alamat “Jalan A. Yani No. 23 atau sebelum di UPDATE

```
C:\Windows\system32\cmd.exe - mysql -u root

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'),
('BRUV', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21'),
('BRUW', 'Bank Rut Unit Wonogiri', 'Jl. Untung Surapati 12');
Query OK, 5 rows affected (0.02 sec)
Records: 5 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 |
| BRUM       | Bank Rut Unit Magelang | Jl. P. Tendean 63 |
| BRUS       | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUV       | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
| BRUW       | Bank Rut Unit Wonogiri | Jl. Untung Surapati 12 |
+----+-----+-----+
5 rows in set (0.00 sec)

MariaDB [perbankan]>
```

- Setelah di UPDATE

```
C:\WINDOWS\system32\cmd.exe - mysql -u root

MariaDB [perbankan]> UPDATE cabang_bank SET alamat_cabang = 'Jalan A. Yani No. 23' WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.05 sec)
Rows matched: 1 Changed: 1 Warnings: 0

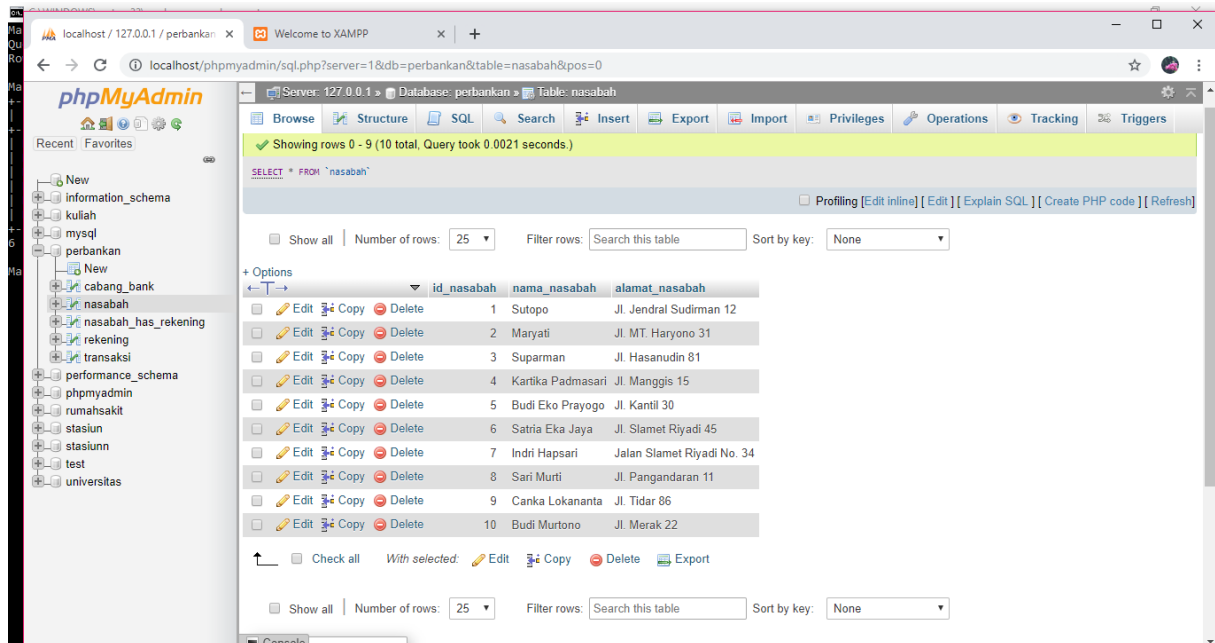
MariaDB [perbankan]> select * from cabang_bank;
+----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+----+-----+-----+
| BRUB       | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUK       | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUM       | Bank Rut Unit Magelang | Jl. P. Tendean 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 (0.00 sec)

MariaDB [perbankan]>
```

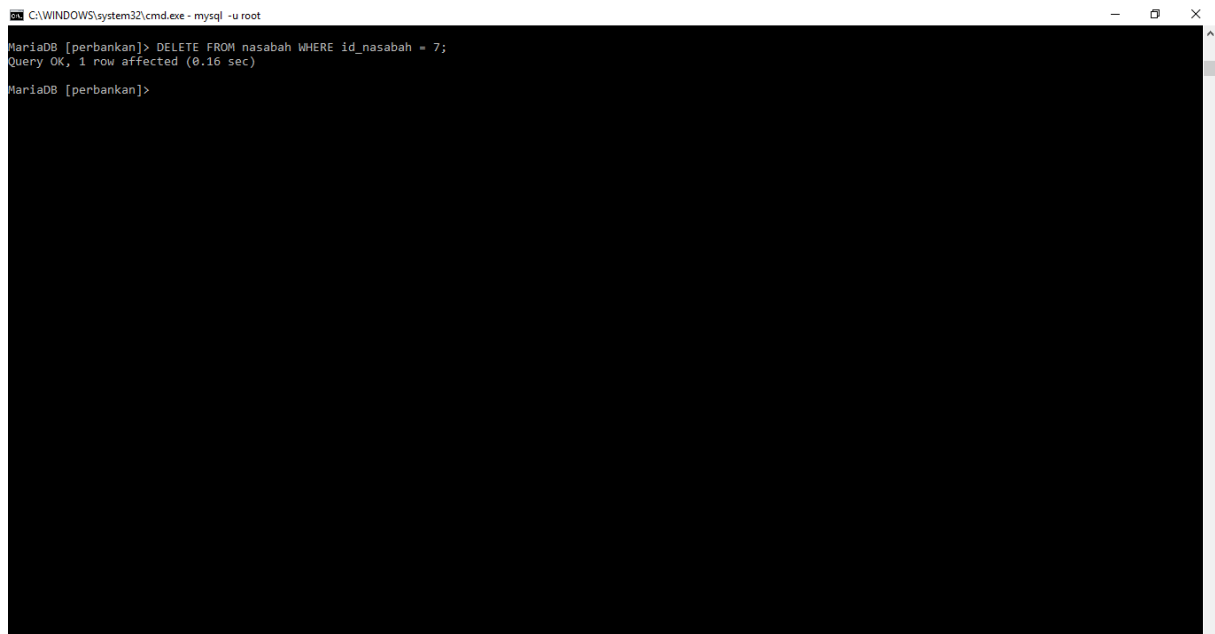
6. Lakukan penghapusan untuk kasus-kasus berikut:

a. Nasabah dengan id “7” menutup rekeningnya

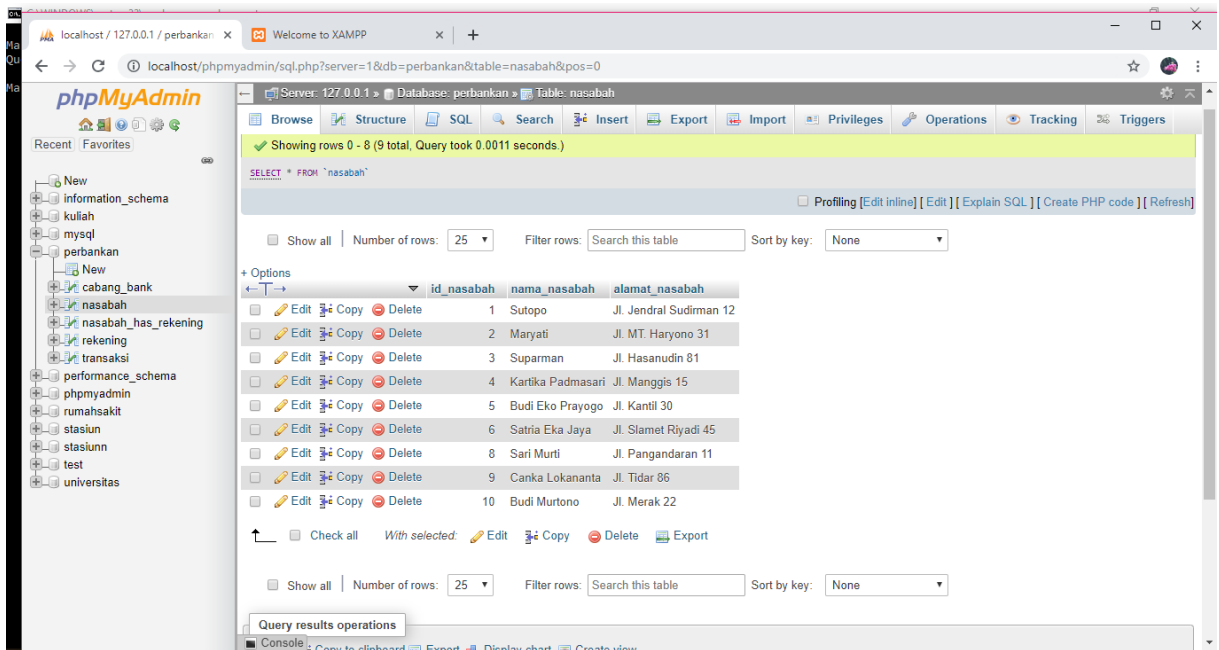
- Sebelum melakukan penghapusan



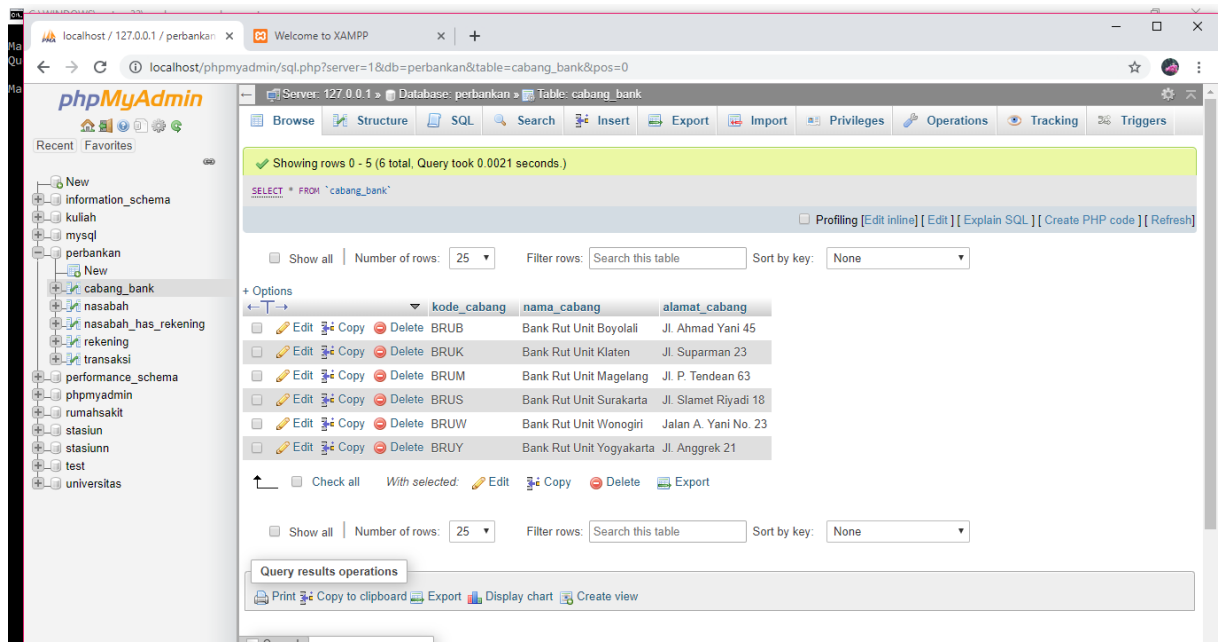
- Proses Penghapusan



- Setelah Melakukan Penghapusan



- b. Cabang dengan nama_cabang “Bank Rut Unit Magelang” menutup kantornya
- Sebelum melakukan penghapusan



- Proses Penghapusan

```
MariaDB [perbankan]> DELETE from cabang_bank  
-> WHERE nama_cabang = 'Bank Rut Unit Magelang';  
Query OK, 1 row affected (0.07 sec)
```

TUGAS

Masukkan beberapa record ke setiap tabel dalam database yang telah dibuat (Masing-masing 10 record untuk tabel master dan 20 record untuk tabel transaksi)

>> Nasabah

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
-> value (11, 'Risa Ayu Agustina', 'Jl. Gatak 12'),
-> (12, 'Yasin Dwi', 'Jl. Teratai 23'),
-> (13, 'Tits Ulfa', 'Jl. Mawar 34'),
-> (14, 'Nurul Arifia', 'Jl. Diponegoro 20'),
-> (15, 'Rossanti', 'Jl. Menco 56'),
-> (16, 'Chelsea Angieta', 'Jl. Gonilan 10'),
-> (17, 'Tika Pratiwi', 'Jl. Suprpto 15'),
-> (18, 'Annisa Fisabila', 'Jl. Gatotkaca 7'),
-> (19, 'Salsabila', 'Jl. Gajah Mada 13'),
-> (20, 'Putri Monita', 'Jl. Tandean 1');
Query OK, 10 rows affected (0.13 sec)
Records: 10 Duplicates: 0 Warnings: 0

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

id_nasabah	nama_nasabah	alamat_nasabah
1	Sutopo	Jl. Jendral Sudirman 12
2	Maryati	Jl. MT. Haryono 31
3	Suparman	Jl. Hasanudin 81
4	Kartika Padmasari	Jl. Manggis 15
5	Budi Eko 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	Risa Ayu Agustina	Jl. Gatak 12
12	Yasin Dwi	Jl. Teratai 23
13	Tits Ulfa	Jl. Mawar 34
14	Nurul Arifia	Jl. Diponegoro 20
15	Rossanti	Jl. Menco 56
16	Chelsea Angieta	Jl. Gonilan 10
17	Tika Pratiwi	Jl. Suprpto 15
18	Annisa Fisabila	Jl. Gatotkaca 7

>> Cabang_bank

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang)
-> value ('BRUP','Bank Rut Unit Purwodadi','Jl. Danyang 20'),
-> ('BRUD','Bank Rut Unit Demak','Jl. Senopati 2'),
-> ('BRUR','Bank Rut Unit Rembang','Jl. Rembang 8'),
-> ('BRUA','Bank Rut Unit Aceh','Jl. Tulip 19'),
-> ('BRUN','Bank Rut Unit Ngawi','Jl. Malioboro 27'),
-> ('BRUT','Bank Rut Unit Tawangmangu','Jl. Tawangmangu 34'),
-> ('BRUJ','Bank Rut Unit Jepara','Jl. Jepara 5'),
-> ('BRUL','Bank Rut Unit Lamongan','Jl. Lamongan 3'),
-> ('BRUC','Bank Rut Unit Cilacap','Jl. Maos 16'),
-> ('BRUI','Bank Rut Unit Indramayu','Jl. S. Parman 20');
Query OK, 10 rows affected (0.06 sec)
Records: 10 Duplicates: 0 Warnings: 0

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

kode_cabang	nama_cabang	alamat_cabang
BRUA	Bank Rut Unit Aceh	Jl. Tulip 19
BRUB	Bank Rut Unit Boyolali	Jl. Ahmad Yani 45
BRUC	Bank Rut Unit Cilacap	Jl. Maos 16
BRUD	Bank Rut Unit Demak	Jl. Senopati 2
BRUI	Bank Rut Unit Indramayu	Jl. S. Parman 20
BRUJ	Bank Rut Unit Jepara	Jl. Jepara 5
BRUK	Bank Rut Unit Klaten	Jl. Suparman 23
BRUL	Bank Rut Unit Lamongan	Jl. Lamongan 3
BRUN	Bank Rut Unit Ngawi	Jl. Malioboro 27
BRUP	Bank Rut Unit Purwodadi	Jl. Danyang 20
BRUR	Bank Rut Unit Rembang	Jl. Rembang 8
BRUS	Bank Rut Unit Surakarta	Jl. Slamet Riyadi 18
BRUT	Bank Rut Unit Tawangmangu	Jl. Tawangmangu 34
BRUM	Bank Rut Unit Wonogiri	Jalan A. Yani No. 23

```
C:\WINDOWS\system32\cmd.exe - mysql -u root

MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo)
-> values(114, 'BRUP', 1404, 5000000),
-> (115, 'BRUD', 2345, 300000),
-> (116, 'BRUR', 7890, 280000),
-> (117, 'BRUA', 6543, 3500000),
-> (118, 'BRUN', 3254, 200000),
-> (119, 'BRUT', 4321, 300000),
-> (120, 'BRUJ', 7788, 900000),
-> (121, 'BRUL', 3322, 600000),
-> (122, 'BRUC', 1278, 700000),
-> (123, 'BRUI', 5498, 250000);
Query OK, 10 rows affected (0.08 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

>> Rekening

```
C:\WINDOWS\system32\cmd.exe - mysql -u root

MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo)
-> values(114, 'BRUP', 1404, 5000000),
-> (115, 'BRUD', 2345, 300000),
-> (116, 'BRUR', 7890, 280000),
-> (117, 'BRUA', 6543, 3500000),
-> (118, 'BRUN', 3254, 200000),
-> (119, 'BRUT', 4321, 300000),
-> (120, 'BRUJ', 7788, 900000),
-> (121, 'BRUL', 3322, 600000),
-> (122, 'BRUC', 1278, 700000),
-> (123, 'BRUI', 5498, 250000);
Query OK, 10 rows affected (0.08 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 | 0 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
| 114 | BRUP | 1404 | 5000000 |
| 115 | BRUD | 2345 | 300000 |
| 116 | BRUR | 7890 | 280000 |
| 117 | BRUA | 6543 | 3500000 |
| 118 | BRUN | 3254 | 200000 |
| 119 | BRUT | 4321 | 300000 |
| 120 | BRUJ | 7788 | 900000 |
| 121 | BRUL | 3322 | 600000 |
| 122 | BRUC | 1278 | 700000 |
| 123 | BRUI | 5498 | 250000 |
+-----+-----+-----+-----+
23 rows in set (0.00 sec)
```

>> Nasabah_has_rekening

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
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, 122),
-> (20, 123);
Query OK, 10 rows affected (0.09 sec)
Records: 10 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 |
| 11 | 114 |
| 12 | 115 |
| 13 | 116 |
| 14 | 117 |
| 15 | 118 |
| 16 | 119 |
| 17 | 120 |
| 18 | 121 |
| 19 | 122 |
| 20 | 123 |
+-----+-----+
```

>> Transaksi

```
MariaDB [perbankan]> insert into transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, jumlah)
-> values(31, 114, 3, 'debit', 60000),
-> (32, 115, 2, 'debit', 80000),
-> (33, 116, 4, 'kredit', 70000),
-> (34, 117, 3, 'debit', 90000),
-> (35, 118, 5, 'kredit', 40000),
-> (36, 119, 1, 'kredit', 200000),
-> (37, 120, 9, 'kredit', 150000),
-> (38, 121, 5, 'debit', 20000),
-> (39, 122, 3, 'kredit', 40000),
-> (40, 123, 4, 'debit', 800000),
-> (41, 115, 2, 'debit', 900000),
-> (42, 114, 1, 'debit', 550000),
-> (43, 117, 4, 'kredit', 750000),
-> (44, 119, 3, 'debit', 950000),
-> (45, 118, 4, 'kredit', 420000),
-> (46, 116, 2, 'debit', 100000),
-> (47, 120, 5, 'debit', 300000),
-> (48, 108, 10, 'debit', 100000),
-> (49, 106, 3, 'redit', 50000),
-> (50, 106, 3, 'redit', 50000);
Query OK, 20 rows affected (0.08 sec)
Records: 20 Duplicates: 0 Warnings: 0
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
at line 1
MariaDB [perbankan]> select * from transaksi;
```

no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
1	3	105	debit	2019-03-31 13:54:23	50000
2	2	103	debit	2019-03-31 13:54:23	40000
3	4	101	kredit	2019-03-31 13:54:23	20000
4	3	106	debit	2019-03-31 13:54:23	30000
5	5	107	kredit	2019-03-31 13:54:23	50000
6	1	104	kredit	2019-03-31 13:54:23	200000
7	9	110	kredit	2019-03-31 13:54:23	150000
8	5	102	debit	2019-03-31 13:54:23	20000
9	3	105	kredit	2019-03-31 13:54:23	50000
10	4	107	debit	2019-03-31 13:54:23	100000
11	2	103	debit	2019-03-31 13:54:23	100000
12	1	104	debit	2019-03-31 13:54:23	50000
13	4	107	kredit	2019-03-31 13:54:23	200000
14	3	105	debit	2019-03-31 13:54:23	40000
16	4	101	kredit	2019-03-31 13:54:23	20000
17	2	103	debit	2019-03-31 13:54:23	50000
18	5	102	debit	2019-03-31 13:54:23	50000
19	10	108	debit	2019-03-31 13:54:23	100000
20	3	106	redit	2019-03-31 13:54:23	50000
21	2	103	kredit	2019-03-31 13:54:23	200000
22	3	105	kredit	2019-03-31 13:54:23	100000
23	5	102	debit	2019-03-31 13:54:23	20000
24	1	104	debit	2019-03-31 13:54:23	50000
25	2	103	debit	2019-03-31 13:54:23	40000
26	4	101	debit	2019-03-31 13:54:23	50000
27	2	103	kredit	2019-03-31 13:54:23	100000
28	5	102	kredit	2019-03-31 13:54:23	200000
29	7	109	debit	2019-03-31 13:54:23	100000
30	9	110	debit	2019-03-31 13:54:23	20000
31	3	114	debit	2019-03-31 15:13:13	60000
32	2	115	debit	2019-03-31 15:13:13	80000
33	4	116	kredit	2019-03-31 15:13:13	70000
34	3	117	debit	2019-03-31 15:13:13	90000
35	5	118	kredit	2019-03-31 15:13:13	40000
36	1	119	kredit	2019-03-31 15:13:13	200000
37	9	120	kredit	2019-03-31 15:13:13	150000
38	5	121	debit	2019-03-31 15:13:13	20000
39	3	122	kredit	2019-03-31 15:13:13	40000
40	4	123	debit	2019-03-31 15:13:13	800000

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
```

40	4	123	debit	2019-03-31 15:13:13	800000
41	2	115	debit	2019-03-31 15:13:13	900000
42	1	114	debit	2019-03-31 15:13:13	550000
43	4	117	kredit	2019-03-31 15:13:13	7500000
44	3	119	debit	2019-03-31 15:13:13	950000
45	4	118	kredit	2019-03-31 15:13:13	420000
46	2	116	debit	2019-03-31 15:13:13	100000
47	5	120	debit	2019-03-31 15:13:13	300000
48	10	108	debit	2019-03-31 15:13:13	100000
49	3	106	redit	2019-03-31 15:13:13	50000
50	3	106	redit	2019-03-31 15:13:13	50000

```
49 rows in set (0.00 sec)

MariaDB [perbankan]>
```