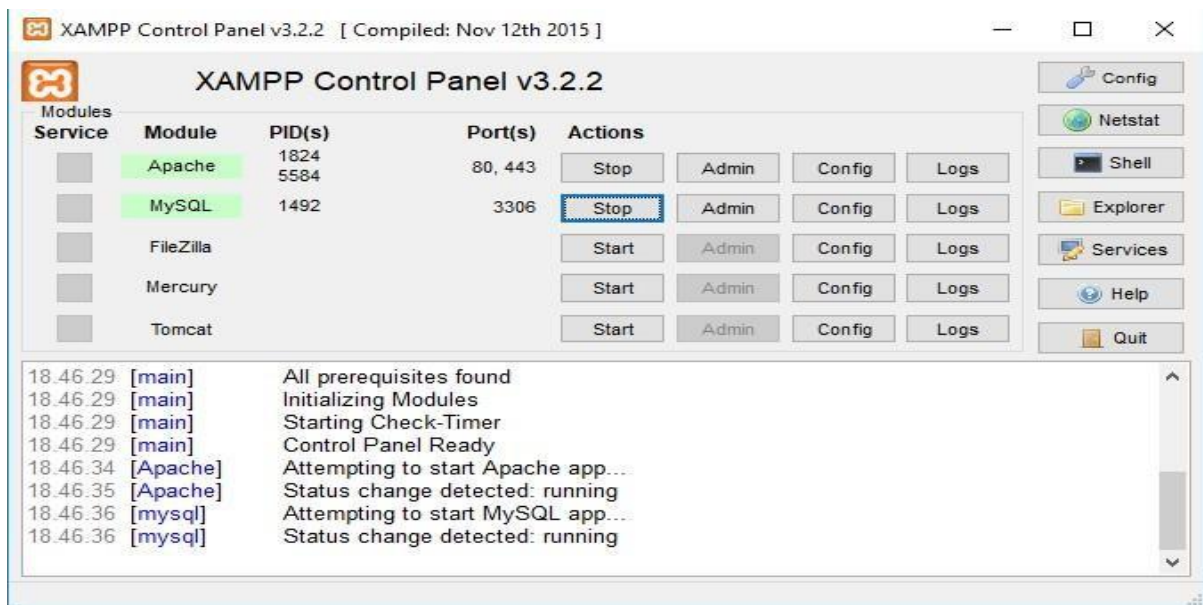


Nama : Xenyx S
NIM : L200170089
Kelas : D

Langkah-langkah Praktikum :

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



2. Buka Command Prompt dan login sebagai root ke MySQL

```
cmd 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. Tendea 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. Tendea 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),
-> (6, 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 MySQL server version for the right syntax to use near 'fro
n 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 |
| 9 | 110 |
| 10 | 113 |
| 8 | 112 |
| 10 | 108 |
+----+-----+
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', 20000),
-> (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 | 20000 |
| 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 | 102 | 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 | 102 | 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 (0.09 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 |
| BRUW       | Bank Rut Unit Wonogiri | Jl. Untung Surapati 12 |
| BRUV       | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+----+-----+-----+
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

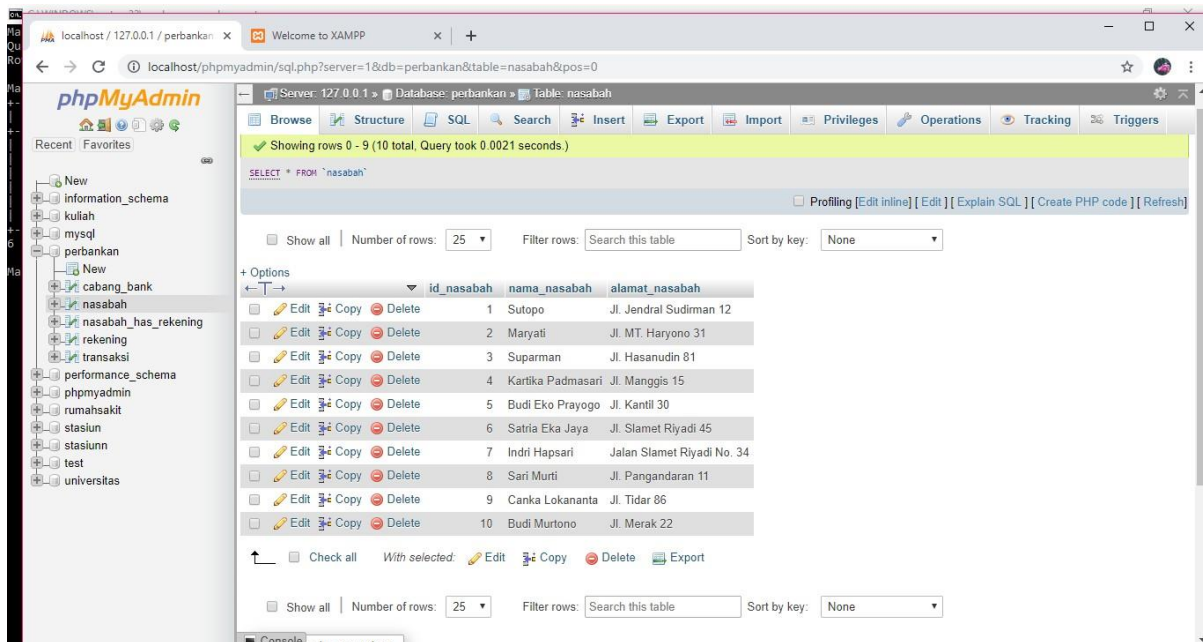
MariaDB [perbankan]> select * from cabang_bank;
+----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+----+-----+-----+
| BRUB       | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUM       | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUM       | Bank Rut Unit Magelang | Jl. P. Tendean 63 |
| BRUS       | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW       | Bank Rut Unit Wonogiri | Jalan A. Yani No. 23 |
| BRUV       | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+----+-----+-----+
6 rows in set (0.00 sec)

MariaDB [perbankan]>
```

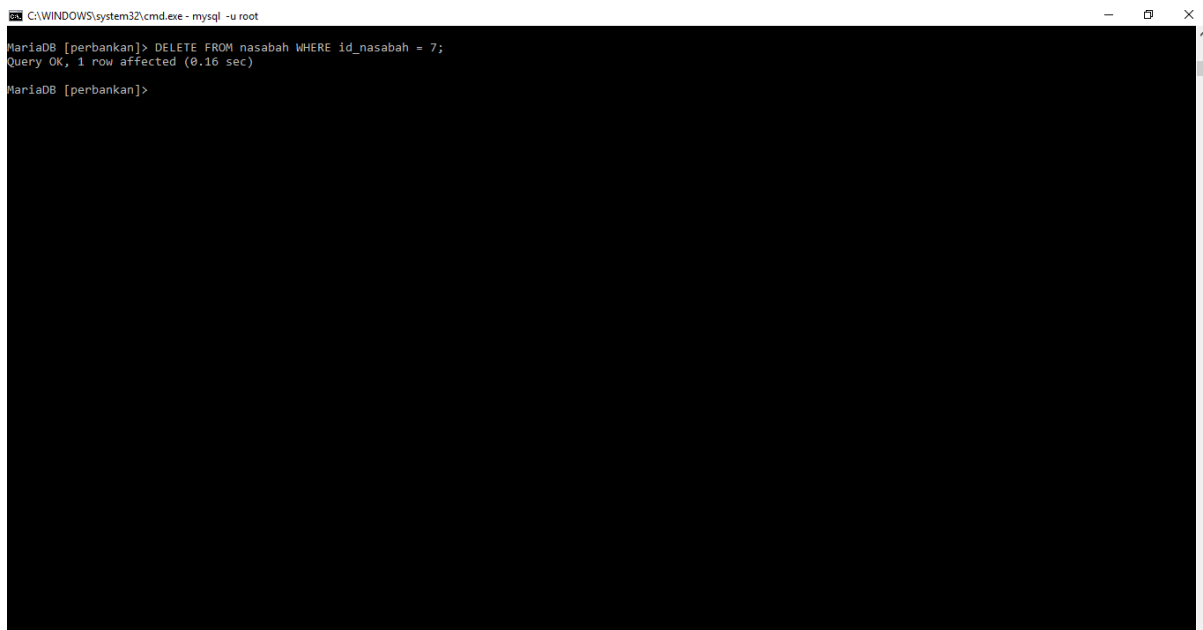
6. Lakukan penghapusan untuk kasus-kasus berikut:

a. Nasabah dengan id “7” menutup rekeningnya

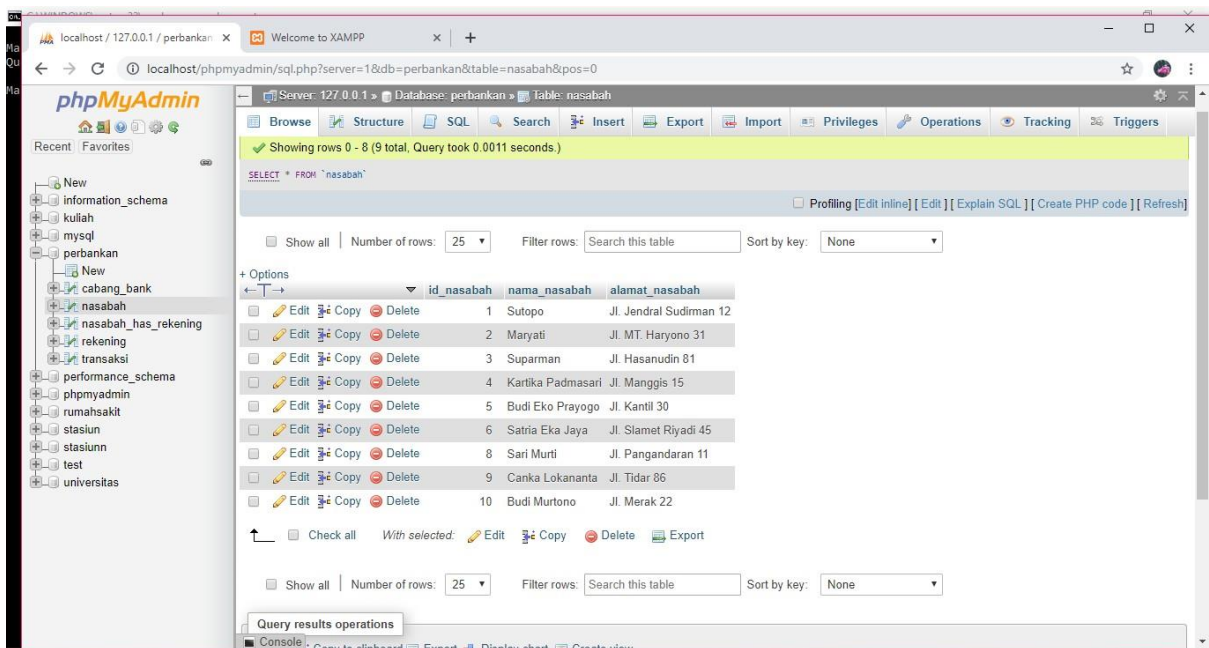
- Sebelum melakukan penghapusan



- Proses Penghapusan

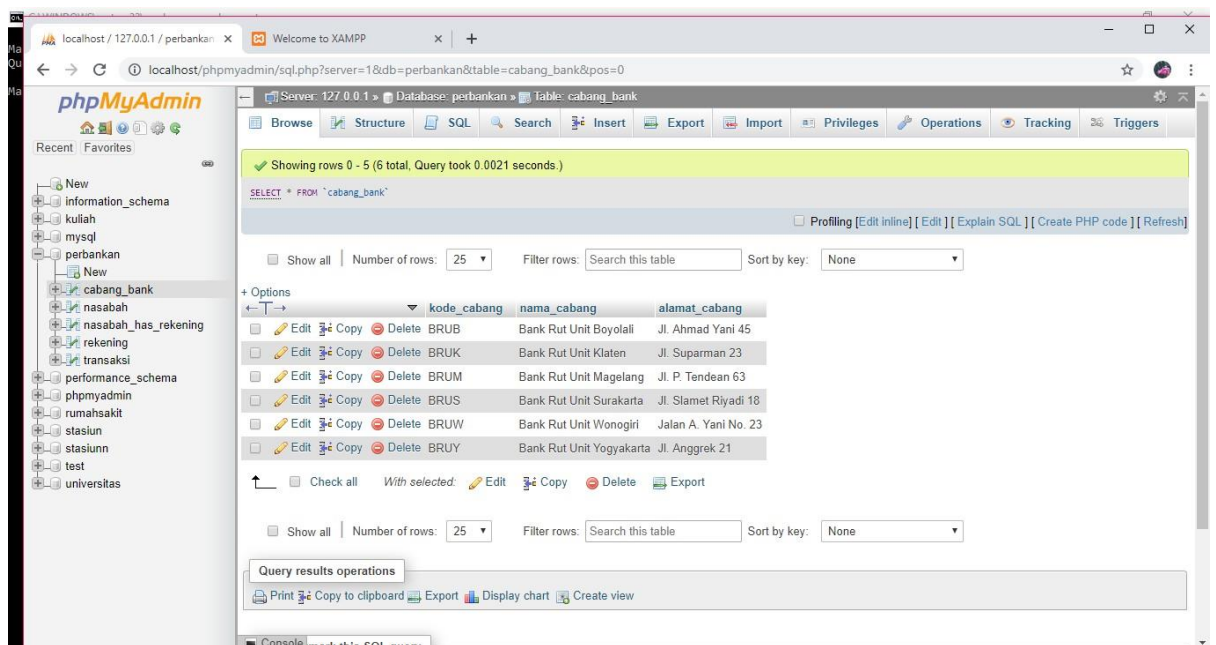


- Setelah Melakukan Penghapusan



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 Kliten | 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 |
| BRUW | Bank Rut Unit Wonorejo | 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, 3000000),
-> (116, 'BRUR', 7890, 2800000),
-> (117, 'BRUA', 6543, 3500000),
-> (118, 'BRUN', 3254, 2000000),
-> (119, 'BRUT', 4321, 3000000),
-> (120, 'BRUJ', 7788, 9000000),
-> (121, 'BRUL', 3322, 6000000),
-> (122, 'BRUC', 1278, 7000000),
-> (123, 'BRUI', 5498, 2500000);
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, 3000000),
-> (116, 'BRUR', 7890, 2800000),
-> (117, 'BRUA', 6543, 3500000),
-> (118, 'BRUN', 3254, 2000000),
-> (119, 'BRUT', 4321, 3000000),
-> (120, 'BRUJ', 7788, 9000000),
-> (121, 'BRUL', 3322, 6000000),
-> (122, 'BRUC', 1278, 7000000),
-> (123, 'BRUI', 5498, 2500000);
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 | 3000000 |
| 116 | BRUR | 7890 | 2800000 |
| 117 | BRUA | 6543 | 3500000 |
| 118 | BRUN | 3254 | 2000000 |
| 119 | BRUT | 4321 | 3000000 |
| 120 | BRUJ | 7788 | 9000000 |
| 121 | BRUL | 3322 | 6000000 |
| 122 | BRUC | 1278 | 7000000 |
| 123 | BRUI | 5498 | 2500000 |
+-----+-----+-----+-----+
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', 7500000),
-> (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	2	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	750000
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]>