Nama : Malik

Muhammad

NIM: L200180072

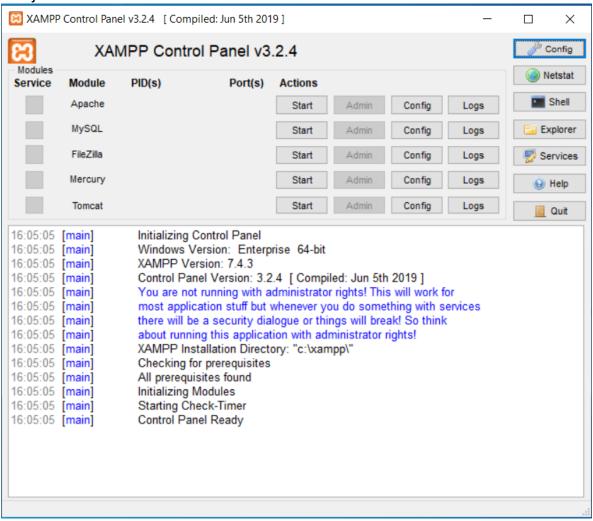
Kelas C

MODUL KE-5

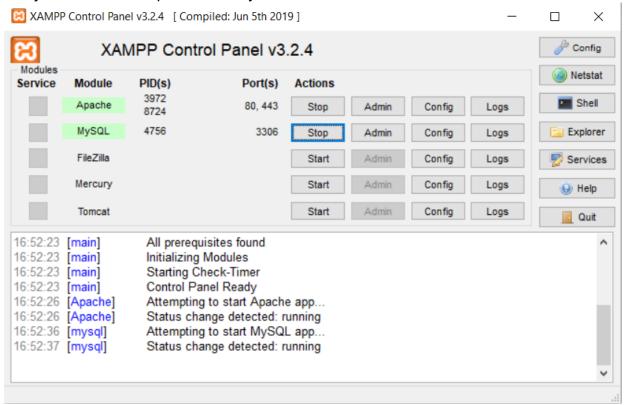
PRAKTIKUM

Langkah-langkah praktikum

1. Menjalankan XAMPP Control Panel



2. Menjalankan server Apache dan MySQL



Membuka command Promt dan login sebagai root ke MySQL seperti di langkah pada Modul 1

```
Microsoft Windows [Version 10.0.18363.720]
(c) 2019 Microsoft Corporation. All rights reserved.

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 11
Server version: 10.4.11-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)]> ____
```

4. Memilih database perbankan dengan perintah "use perbankan". Sehingga akan muncul pemberitahuan "database changed"

```
Microsoft Windows [Version 10.0.18363.720]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\xampp\mysql\bin>mysql -u root -p
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 11
Server version: 10.4.11-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)]> show databases;
 Database
 information_schema
 mysql
 perbankan
 performance_schema
 phpmyadmin
rows in set (0.001 sec)
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> _
```

5. Kemudian memasukan data-data berikut ini ke dalam database

perbankan Tabel nasabah

```
MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(1, 'Sutopo' ,'31. Jendral Sudirman 12');
Query OK, 1 row affected (0.107 sec)

MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(2, 'Maryati' ,'31. MT. Haryono 31');
Query OK, 1 row affected (0.073 sec)

MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(3, 'Suparman' ,'31. Hasanudin 81');
Query OK, 1 row affected (0.061 sec)

MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(4, 'Kartika Padmasari' ,'31. Mangga 15');
Query OK, 1 row affected (0.062 sec)

MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(5, 'Budi Eko Prayogo' ,'31. Kantil 30');
Query OK, 1 row affected (0.062 sec)

MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(6, 'Sartia Eka Jaya' ,'31. Slamet Riyadi 45');
Query OK, 1 row affected (0.053 sec)

MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(7, 'Indri Hapsari' ,'31. Sutoyo 5');
Query OK, 1 row affected (0.053 sec)

MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(8, 'Sari Murti' ,'31. Pangandaran 11');
Query OK, 1 row affected (0.058 sec)

MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(9, 'Canka Lokananta' ,'31.Tidar 86');
Query OK, 1 row affected (0.058 sec)

MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(10, 'Budi Murtono' ,'31. Merak 22');
Query OK, 1 row affected (0.058 sec)

MariaOB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(10, 'Budi Murtono' ,'31. Merak 22');
Query OK, 1 row affected (0.058 sec)
```

Tabel cabang_bank

```
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUS', 'Bank Rut Unit Surakarta' ,'Jl. Slamet Riyadi 18');
Query OK, 1 row affected (0.081 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUM', 'Bank Rut Unit Magelang','Jl. P. Tendean 63');
Query OK, 1 row affected (0.057 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUB', 'Bank Rut Unit Boyolali','Jl. Ahmad Yani 45');
Query OK, 1 row affected (0.075 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUK', 'Bank Rut Unit Klaten','Jl. Suparman 23');
Query OK, 1 row affected (0.026 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUY', 'Bank Rut Unit Yogyakarta','Jl. Anggrek 21');
Query OK, 1 row affected (0.041 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUW', 'Bank Rut Unit Wonogiri','Jl. Untung Suropati 12');
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUW', 'Bank Rut Unit Wonogiri','Jl. Untung Suropati 12');
Query OK, 1 row affected (0.056 sec)
```

Tabel rekening

```
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(101, 'BRUS', 1111, 500000);
 uerv OK, 1 row affected (0.068 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(102, 'BRUS', 2222, 350000);
 uery OK, 1 row affected (0.024 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(103, 'BRUS', 3333, 750000);
 uery OK, 1 row affected (0.033 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(104, 'BRUM', 4444, 900000);
 uery OK, 1 row affected (0.038 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(105, 'BRUM', 5555, 200000);
 uery OK, 1 row affected (0.026 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(106, 'BRUS', 6666, 300000);
 uery OK, 1 row affected (0.024 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(107, 'BRUS', 7777, 100000);
 uery OK, 1 row affected (0.024 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(108, 'BRUB', 0000, 500000);
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(109, 'BRUB', 9999, 0);
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(110, 'BRUSY', 1234, 550000);
 uery OK, 1 row affected (0.024 sec)
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(111, 'BRUK', 4321, 150000);
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(112, 'BRUK', 0123, 300000);
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(113, 'BRUY', 8888, 255000);
 uery OK, 1 row affected (0.044 sec)
MariaDB [perbankan]> 🕳
```

Tabel nasabah_has_rekening

```
Query OK, 1 row affected (0.044 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(1, 104);
Query OK, 1 row affected (0.072 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(2, 103);
Query OK, 1 row affected (0.026 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(3, 105);
Query OK, 1 row affected (0.032 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(3, 106);
Query OK, 1 row affected (0.049 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(4, 101);
Query OK, 1 row affected (0.026 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(4, 107);
Query OK, 1 row affected (0.066 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(5, 102);
Query OK, 1 row affected (0.119 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(5, 107);
Query OK, 1 row affected (0.023 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(6, 109);
Query OK, 1 row affected (0.026 sec)
MariaDB [perbankan]> INSERT INTO nasabah has rekening(id nasabahFK, no rekeningFK) VALUES(7, 109);
Query OK, 1 row affected (0.037 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(8, 111);
Query OK, 1 row affected (0.025 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(9, 110);
Query OK, 1 row affected (0.027 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(10, 113);
Query OK, 1 row affected (0.019 sec)
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(8, 112);
Query OK, 1 row affected (0.019 sec)
```

Tabel transaksi

```
iaUN [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningeK, id_masababeK, jenis_transaksi, tanggal, jumlah) VATUES(1, 10%, к, 'debit', 2009 11 10, гу UK, 1 гом affected, 1 магелія (0.091 ser)
rialB [perbankan]> NBSERT NNO transaksi(no_transaksi, no_cekening=K, id_nasabab=K, jenis_transaksi, tanggal, jumlah) VALUES(2, 108, 2, "debit", 2009 11 10, 40000);
ery NK, 1 raw affected, 1 warning (0.021 ser)
 riaDR [perbankan]> NXS-RI INIO transaksi(no_transaksi, no_rekening-K, id_masabab-K, jenis_transaksi, tanggal, jumlah) VALU-S(4, 181, 4, 'kredit', 2009 ll 12, 20080);
ery OK, 1 raw affected, 1 warning (8.024 sec)
 riaDR [perbankan]> HMSERT HWIO transaksi(no_transaksi, no_rekeningeK, id_masababEK, jenis_transaksi, tanggal, jumlah) VALUES(4, 106, 3, "debit", 2009 11 13, "00000);
ery HK, 1 row affected, 1 warning (0.040 eer)
rial» [perbankan]> NAS-RI INIO transaksi(mo_transaksi, mo_rekening-K, id_masabah-K, jenis_transaksi, tanggal, jumlah) VALU-S(1, 107, 1, 'kredit', 2009 11 14, 40000);
ery NK, 1 raw affected, 1 warning (0.02% ser)
 riaDR [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningEK, id_masababEK, jenis_transaksi, tanggal, jumlah) VALUES(6, 184, 1, 'kredit', 2009 11 15, 200000);
ory UK, 1 row affected, 1 warning (0.027 ser)
 rial# [perbankan]> IMSEMI INIO transaksi(no_transaksi, no_rekeningEK, id_masababEK, jenis_transaksi, tanggal, jumlah) VMUUES(/, 180, 9, 'keedit', 2809 11 15, 150808);
ery UK, 1 row affected, 1 warning (8.825 sec)
riol8 [perbankan]> NAS-RI UNIO transaksi(no_transaksi, no_rekening-K, id_masabab-K, jenis_transaksi, tanggal, jumlah) VALU-5(8, 102, 4, 'debit', 2009 11 16, 20000);
ery NK, 1 raw affected, 1 warning (0.022 ser)
riaOO [perbankan]> INSCRT INTO transaksi(no transaksi, no rekeningfK, id masabahfK, jenis transaksi, tanggal, junlah) VALUCS(9, 105, 0, 'kredit', 2009-11-10, 50000);
ery OK, 1 row affected, 1 warming (0.045 set)
 riaDO | perbankam|> INSCRT INTO transaksi(no transaksi, no rekeningfK, id masabahfK, jenis transaksi, tanggal, juniah) VALUC5(10, 107, 4, 'debit', 2009-11-19, 100000);
ery OK, 1 row affected, 1 warming (0.019 sec.)
riaDD [perbankam]> INSCRT INTO transaksi(no transaksi, no rekeningfK, id masabahfK, jenis transaksi, tanggal, jumlah) VALUCS(11, 10), 2, 'debit', 2009-11-19, 100000);
ery OK, 1 row affected, 1 warming (0.02) set)
ariaDD |perbenkam|> INSERT INTO transaksi(no transaksi, no rekeningfK, id masabahfK, jenis transaksi, tanggal, jumlah) VALUCS(12, 104, 1, 'debit', 2009-11-19, 50000);
pery OK, 1 row affected, 1 warming (0.02) sec)
 riaDD | perbankan|> INSCRT INTO transaksi(no transaksi, no rekeningFK, id masabahFK, jenis transaksi, tanggal, jumlah) VALUCS(13, 107, 4, 'kredit', 2009-11-20, 200000);
ery OK, 1 row affected, 1 warning (0.024 set)
riaDD [perbankan]> INSERT INTO transaksi(no transaksi, no rekeningfK, id masabahfK, jenis transaksi, tanggal, juniah) VALUES(14, 105, 3, 'debit', 2009-11-21, 40000);
ery OK, 1 row affected, 1 warming (0.02) set)
riado (perbankan)> INSERT INTO transaksi(no transaksi, no rekeningEK, id masabahEK, jenis transaksi, tanggal, junlah) VALUES(15, 184, 1, 'kredit', 2009-11-22, 100000);
ery OK, 1 row affected, 1 warning (0.024 sec)
 riaDD | perbenkam|> INSCRT INTO transaksi(no transaksi, no rekeningfK, id masabahfK, jenis transaksi, tanggal, jumlah) VALUCS(16, 101, 4, 'kredit', 2009-11-22, 20000);
ery OK, 1 row affected, 1 warming (0.022 sec.)
riaDO (perbankan)> INSCRT INTO transaksi(no transaksi, no rekeningfK, id masabahfK, jenis transaksi, tanggal, juniah) VALUCS(17, 100, 2, 'debit', 2009-11-22, 50000);
ery OK, 1 rum affected, 1 marning (0.024 sec)
```

```
Comp (K. 1 row attented, 1 serming (0.022 sec)

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(17, 103, 2, 'debil', 2009-11-22, 50000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(18, 102, 5, 'debil', 2009-11-25, 50000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(18, 102, 5, 'debil', 2009-11-25, 50000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(28, 106, 3, 'hredit', 2009-11-26, 100000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(28, 106, 3, 'hredit', 2009-11-27, 50000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(21, 103, 2, 'hredit', 2009-11-28, 200000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(21, 103, 2, 'hredit', 2009-11-28, 200000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(22, 105, 3, 'debil', 2009-11-28, 200000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(23, 104, 1, 'debil', 2009-12-1, 500000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(23, 104, 1, 'debil', 2009-12-2, 400000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(28, 104, 1, 'debil', 2009-12-2, 400000);

Revision [pertembars] EMSCRT HTO transabsitor transabsi, no reheming[K, id nesebah[K, jenis transabsi, tempgel, jomlah) VALUES(28,
```

6. Melakukan update untuk kasus-kasus berikut ini

a. Nasabah dengan nama "Indri Hapsari" pindah alamat ke "Jalan Slamrt Riyadi No.34"

```
MariaDB [perbankan]> UPDATE nasabah SET alamat_nasabah = 'Jalan Slamet Riyadi No.34' WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.108 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [perbankan]>
```

```
MariaDB [perbankan]> select*from nasabah;
 id_nasabah | nama_nasabah
                                 | alamat nasabah
               Sutopo
                                   Jl. Jendral Sudirman 12
                                   Jl. MT. Haryono 31
              Maryati
                                   Jl. Hasanudin 81
              Suparman
              Kartika Padmasari
                                   Jl. Mangga 15
                                   Jl. Kantil 30
Jl. Slamet Riyadi 45
              Budi Eko Prayogo
              Satria Eka Jaya
                                   Jalan Slamet Riyadi No.34
              Indri Hapsari
              Sari Murti
                                   Jl. Pangandaran 11
              Canka Lokananta
                                   Jl.Tidar 86
          10 Budi Murtono
                                   Jl. Merak 22
10 rows in set (0.001 sec)
MariaDB [perbankan]>
```

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

```
MariaDB [perbankan]> UPDATE cabang_bank SET alamat_cabang = 'Jalan A. Yani No.23' WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.107 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [perbankan]> select*from cabang_bank;
 kode_cabang | nama_cabang
                                             | alamat_cabang
                 Bank Rut Unit Boyolali
                                               Jl. Ahmad Yani 45
                 Bank Rut Unit Klaten
 BRUK
                                               Jl. Suparman 23
  BRUM
                 Bank Rut Unit Magelang
                                               Jl. P. Tendean 63
                                               Jl. Slamet Riyadi 18
Jalan A. Yani No.23
                 Bank Rut Unit Surakarta
Bank Rut Unit Wonogiri
  BRUS
  BRUW
                Bank Rut Unit Yogyakarta
  BRUY
                                               Jl. Anggrek 21
 rows in set (0.001 sec)
MariaDB [perbankan]>
```

- 7. Melakukan penghapusan untuk kasus-kasus berikut ini
 - a. Nasabah dengan id "7" menutup rekeningnya

```
MariaDB [perbankan]> DELETE FROM nasabah WHERE id_nasabah = 7;
Query OK, 1 row affected (0.086 sec)
MariaDB [perbankan]> select*from nasabah;
  id_nasabah | nama_nasabah
                                    | alamat_nasabah
                                       Jl. Jendral Sudirman 12
                Maryati
                                       Jl. MT. Haryono 31
                                       Jl. Hasanudin 81
                Suparman
               Kartika Padmasari | Jl. Mangga 15
Budi Eko Prayogo | Jl. Kantil 30
                Satria Eka Jaya | Jl. Slamet Riyadi 45
Sari Murti | Jl. Pangandaran 11
            8
          9 | Canka Lokananta
10 | Budi Murtono
                                       Jl.Tidar 86
                                      ] Jl. Merak 22
 rows in set (0.001 sec)
MariaDB[perbankan]> 🕳
```

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

```
MariaDB [perbankan]> DELETE FROM cabang_bank WHERE nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.088 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
                Bank Rut Unit Surakarta | 11. Slamet Riyadi 18
Bank Rut Unit Wonogiri | Jalan A. Yani No.23
Bank Rut Unit Yogyakarta | 11. Anggrek 21
 BRUS
 BRUW
 BRUY
 rows in set (0.001 sec)
MariaDB [perbankan]>
```