Nama : Anang Prasetyo

NIM   : L200180063
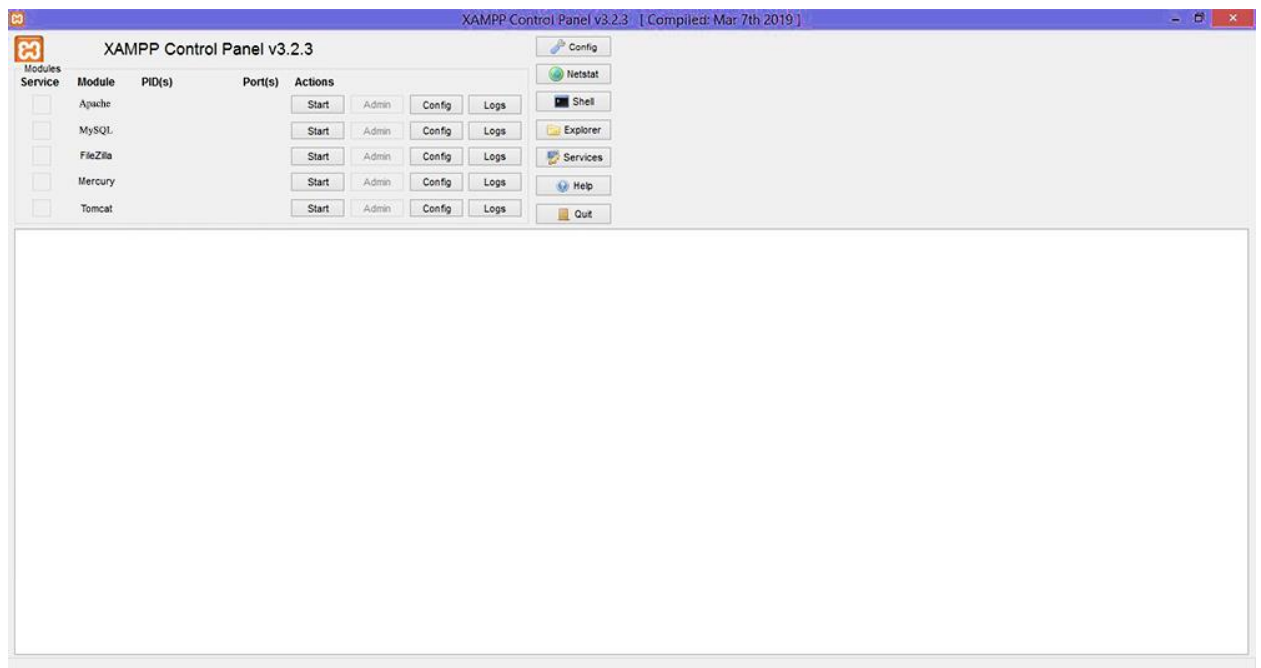
Kelas : C

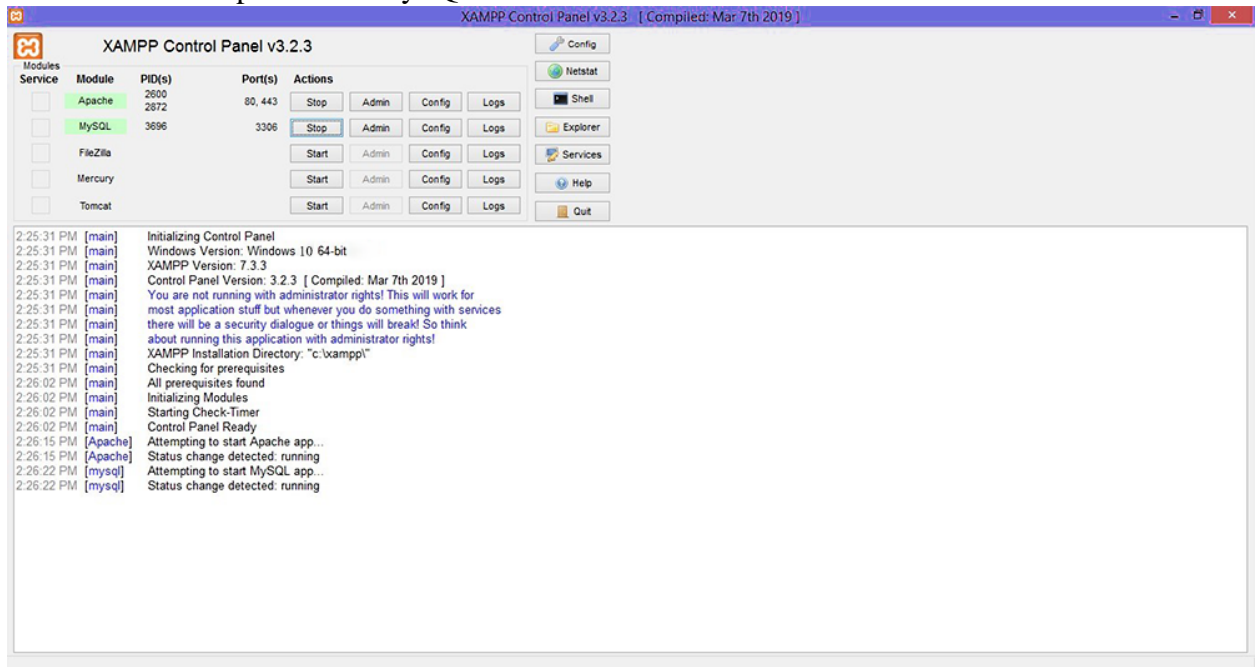# MODUL KE 5

LAPORAN PRAKTIKUM

Langkah-langkah praktikum
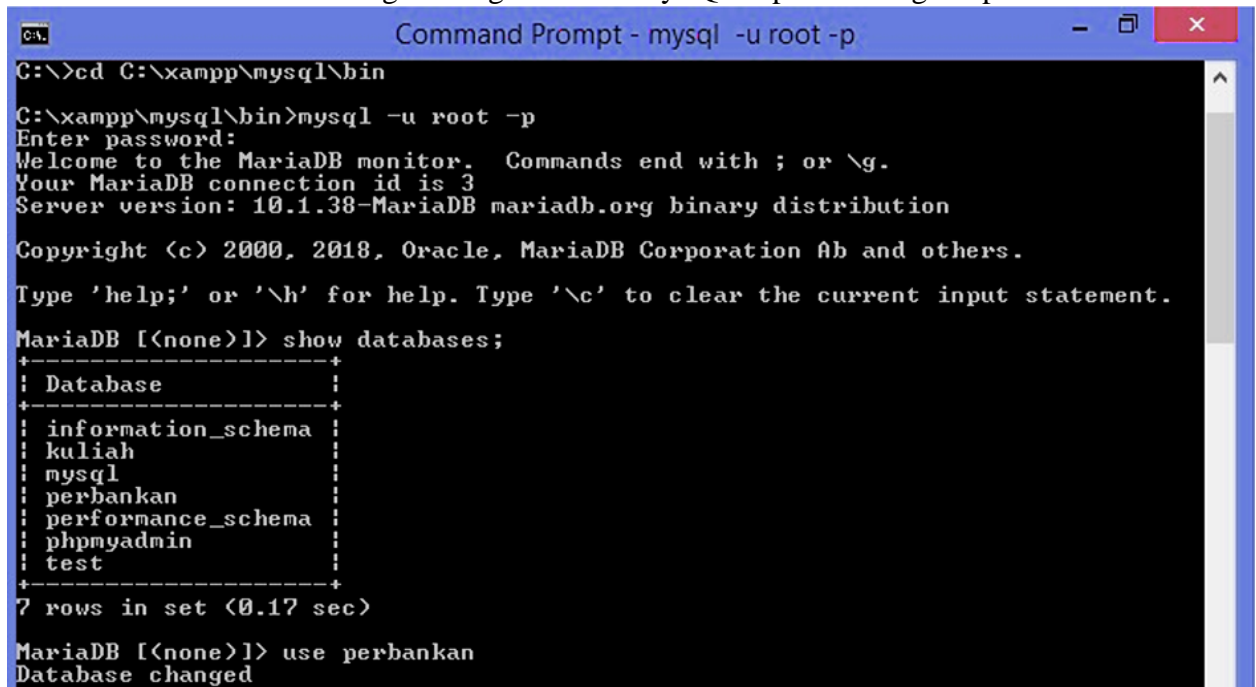
1. Jalankan XAMPP Control Panel
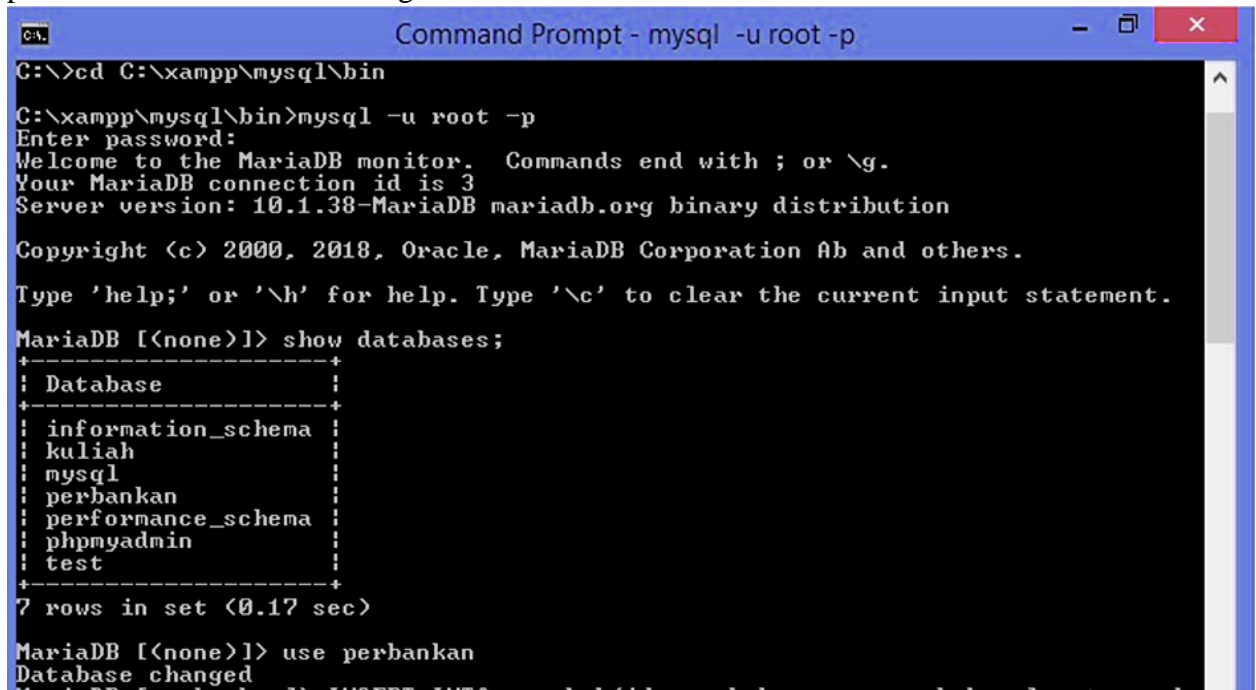
2. Jalankan server Apache dan MySQL

3. Buka command Promt dan login sebagai root ke MySQL seperti di langkah pada Modul 1

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

5. Kemudian masukan data-data berikut ini ke dalam database perbankan

```
C:\WINDOWS\system32\cmd.exe - mysql  -u root -p
50 rows in set (0.00 sec)

MariaDB [perbankan]> select*from nasabah;
+------------+------------------+--------------------------+
| id_nasabah | nama_nasabah     | alamat_nasabah           |
+------------+------------------+--------------------------+
|          1 | Sutopo           | Jl. Jendral Sudirman 12  |
|          2 | Maryati          | Jl. MT. Haryono 31       |
|          3 | Suparman         | Jl. Hasanudin 81         |
|          4 | Kartika Padmasari| Jl. Manggis 15           |
|          5 | Budi Eko Prayogo | Jl. Kantil 30            |
|          6 | Satria Eka Jaya  | Jl. Slamet Riyadi 45     |
|          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)

MariaDB [perbankan]> select*from cabang_bank;
+-------------+-----------------------+------------------------+
| kode_cabang | nama_cabang           | alamat_cabang          |
+-------------+-----------------------+------------------------+
| BRUB        | Bank Rut Unit Boyolali | jl. Ahmad yani 45     |
| BRUK        | Bank Rut Unit Klaten   | jl. Suparman 23       |
| BRUM        | Bank Rut Unit Magelang | jl. P.Tendean 63      |
| BRUS        | Bank Rut Unit Surakarta| jl. Slamet Riyadi 18  |
| BRUW        | Bank Rut Unit Wonogiri | jl. Untung Sutropati 12|
| BRUY        | Bank Rut Unit Yogyakarta| jl. Anggrek 21       |
+-------------+-----------------------+------------------------+
6 rows in set (0.00 sec)

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 | BRUW        | 5555 | 200000 |
|        106 | BRUS        | 6666 | 300000 |
|        107 | BRUS        | 7777 | 100000 |
|        108 | BRUB        | 0000 | 500000 |
|        109 | BRUS        | 9999 |      0 |
|        110 | BRUY        | 1234 | 550000 |
|        111 | BRUK        | 4321 | 150000 |
|        112 | BRUK        | 0123 | 300000 |
|        113 | BRUY        | 8888 | 255000 |
+------------+-------------+------+--------+
```

Type here to search

```
|         113 | BRUY           | 8888 | 255000 |
+------------+----------------+------+--------+
13 rows in set (0.00 sec)

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 |           111 |
|           8 |           112 |
|           8 |           115 |
|           9 |           110 |
|          10 |           108 |
|          10 |           113 |
+-------------+---------------+
15 rows in set (0.00 sec)

MariaDB [perbankan]> select*from transaksi;
+--------------+-------------+---------------+----------------+---------------------+--------+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal             | jumlah |
+--------------+-------------+---------------+----------------+---------------------+--------+
|           32 |           3 |           105 | debit          | 2009-11-10 00:00:00 |  50000 |
|           33 |           2 |           103 | debit          | 2009-11-10 00:00:00 |  40000 |
|           34 |           4 |           101 | kredit         | 2009-11-12 00:00:00 |  20000 |
|           35 |           3 |           106 | debit          | 2009-11-13 00:00:00 |  50000 |
|           36 |           5 |           107 | kredit         | 2009-11-13 00:00:00 |  30000 |
|           37 |           1 |           104 | kredit         | 2009-11-15 00:00:00 | 200000 |
|           38 |           9 |           110 | kredit         | 2009-11-15 00:00:00 | 150000 |
|           39 |           5 |           102 | debit          | 2009-11-16 00:00:00 |  20000 |
|           40 |           3 |           105 | kredit         | 2009-11-18 00:00:00 |  50000 |
|           41 |           4 |           107 | debit          | 2009-11-19 00:00:00 | 100000 |
|           42 |           2 |           103 | debit          | 2009-11-19 00:00:00 | 100000 |
|           43 |           1 |           104 | debit          | 2009-11-19 00:00:00 |  50000 |
|           44 |           4 |           107 | kredit         | 2009-11-20 00:00:00 | 200000 |
|           45 |           3 |           105 | debit          | 2009-11-21 00:00:00 |  40000 |
|           46 |           1 |           104 | kredit         | 2009-11-22 00:00:00 | 100000 |
|           47 |           4 |           101 | kredit         | 2009-11-22 00:00:00 |  20000 |
|           48 |           2 |           103 | debit          | 2009-11-22 00:00:00 |  50000 |
|           49 |           5 |           102 | debit          | 2009-11-25 00:00:00 |  50000 |
|           50 |          10 |           108 | debit          | 2009-11-26 00:00:00 | 100000 |
|           51 |           3 |           106 | kredit         | 2009-11-27 00:00:00 |  50000 |
```

```
|           50 |          10 |           108 | debit          | 2009-11-26 00:00:00 | 100000 |
|           51 |           3 |           106 | kredit         | 2009-11-27 00:00:00 |  50000 |
|           52 |           2 |           103 | kredit         | 2009-11-28 00:00:00 | 200000 |
|           53 |           3 |           105 | kredit         | 2009-11-28 00:00:00 | 100000 |
|           54 |           5 |           102 | debit          | 2009-11-30 00:00:00 |  20000 |
|           55 |           1 |           104 | debit          | 2009-12-01 00:00:00 |  50000 |
|           56 |           2 |           103 | debit          | 2009-12-02 00:00:00 |  40000 |
|           57 |           4 |           101 | debit          | 2009-12-04 00:00:00 |  50000 |
|           58 |           2 |           103 | kredit         | 2009-12-05 00:00:00 | 100000 |
|           59 |           5 |           102 | kredit         | 2009-12-05 00:00:00 | 200000 |
|           60 |           7 |           109 | debit          | 2009-12-05 00:00:00 | 100000 |
|           61 |           9 |           110 | debit          | 2009-12-06 00:00:00 |  20000 |
|           62 |          19 |           110 | kredit         | 2017-05-24 00:00:00 |  50000 |
|           68 |          10 |           111 | kredit         | 2017-05-24 00:00:00 | 250000 |
|           69 |           6 |           106 | debit          | 2017-05-24 00:00:00 | 125000 |
|           70 |           7 |           103 | kredit         | 2017-05-24 00:00:00 | 130000 |
|           72 |           8 |           101 | kredit         | 2017-05-24 00:00:00 | 357000 |
|           73 |           2 |           110 | debit          | 2017-05-24 00:00:00 | 547000 |
|           76 |           5 |           110 | debit          | 2017-05-24 00:00:00 |  26000 |
|           77 |          19 |           110 | kredit         | 2017-05-24 00:00:00 |  50000 |
|           78 |          19 |           110 | kredit         | 2017-05-24 00:00:00 |  50000 |
|           79 |          12 |           101 | debit          | 2017-05-26 00:00:00 | 9700000 |
|           80 |          12 |           101 | debit          | 2017-05-26 00:00:00 | 8500000 |
|           81 |           1 |           111 | kredit         | 2017-05-26 00:00:00 | 520000 |
|           85 |          13 |           109 | debit          | 2017-05-26 00:00:00 | 700000 |
|           86 |          19 |           110 | kredit         | 2017-05-30 00:00:00 |  50000 |
|           87 |          19 |           110 | kredit         | 2017-06-06 00:00:00 |  50000 |
|           88 |          19 |           110 | kredit         | 2017-06-06 00:00:00 |  50000 |
|           89 |          13 |           109 | debit          | 2017-06-08 00:00:00 | 700000 |
|           90 |          13 |           109 | debit          | 2017-06-08 00:00:00 | 700000 |
|           91 |          13 |           109 | debit          | 2017-06-08 00:00:00 | 700000 |
|           92 |           5 |           103 | debit          | 2017-06-14 00:00:00 | 263000 |
+--------------+-------------+---------------+----------------+---------------------+--------+
50 rows in set (0.00 sec)

MariaDB [perbankan]>
```

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

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

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB
ne 1
MariaDB [perbankan]> update nasabah set alamat_nasabah='Jalan Slamet Riyadi No.34' where id_nasabah=7;
Query OK, 1 row affected (0.01 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 alamat ke "Jalan A. Yani No.23"

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

MariaDB [perbankan]> update cabang set  alamat_cabang='Jalan A. Yani No.23' where kode_cabang='BRUW';
ERROR 1146 (42S02): Table 'perbankan.cabang' doesn't exist
MariaDB [perbankan]> update cabang_bank set  alamat_cabang='Jalan A. Yani No.23' where kode_cabang='BRUW';
Query OK, 1 row affected (0.01 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]>
```

7. Lakukan penghapusan untuk kasus-kasus berikut ini

a. Nasabah dengan id "7" menutup rekeningnya

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

MariaDB [perbankan]> delete from nasabah where id_nasabah=7;
Query OK, 1 row affected (0.01 sec)

MariaDB [perbankan]> select*from nasabah;
+-----------+------------------+-------------------------+
| id_nasabah | nama_nasabah    | alamat_nasabah          |
+-----------+------------------+-------------------------+
|         1 | Sutopo           | Jl. Jendral Sudirman 12 |
|         2 | Maryati          | Jl. MT. Haryono 31      |
|         3 | Suparman         | Jl. Hasanudin 81        |
|         4 | Kartika Padmasari | Jl. Manggis 15         |
|         5 | Budi Eko Prayogo | Jl. Kantil 30           |
|         6 | Satria Eka Jaya  | Jl. Slamet Riyadi 45    |
|         8 | Sari Murti       | Jl. Pangandaran 11      |
|         9 | Canka Lokananta  | Jl. Tidar 86            |
|        10 | Budi Murtono     | Jl. Merak 22            |
+-----------+------------------+-------------------------+
9 rows in set (0.00 sec)

MariaDB [perbankan]>
```

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

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

MariaDB [perbankan]> delete from cabang_bank where nama_cabang='Bank Rut Unit Magelang';
Query OK, 1 row affected (0.01 sec)

MariaDB [perbankan]> select*from cabang_bank;
+-------------+------------------------+----------------------+
| kode_cabang | nama_cabang            | alamat_cabang        |
+-------------+------------------------+----------------------+
| BRUB        | Bank Rut Unit Boyolali | jl. Ahmad yani 45    |
| BRUK        | Bank Rut Unit Klaten   | jl. Suparman 23      |
| BRUS        | Bank Rut Unit Surakarta | jl. Slamet Riyadi 18 |
| BRUW        | Bank Rut Unit Wonogiri | Jalan A. Yani No.23  |
| BRUY        | Bank Rut Unit Yogyakarta | jl. Anggrek 21     |
+-------------+------------------------+----------------------+
5 rows in set (0.00 sec)

MariaDB [perbankan]>
```