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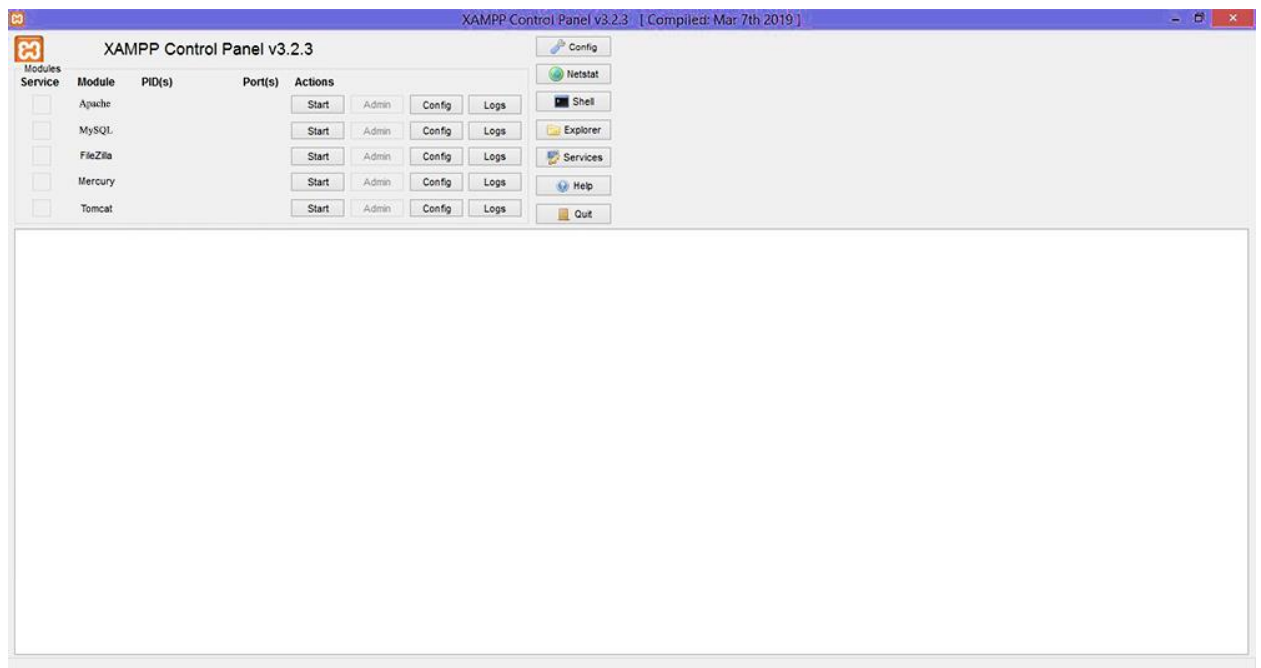
Kelas : C

## MODUL KE 5

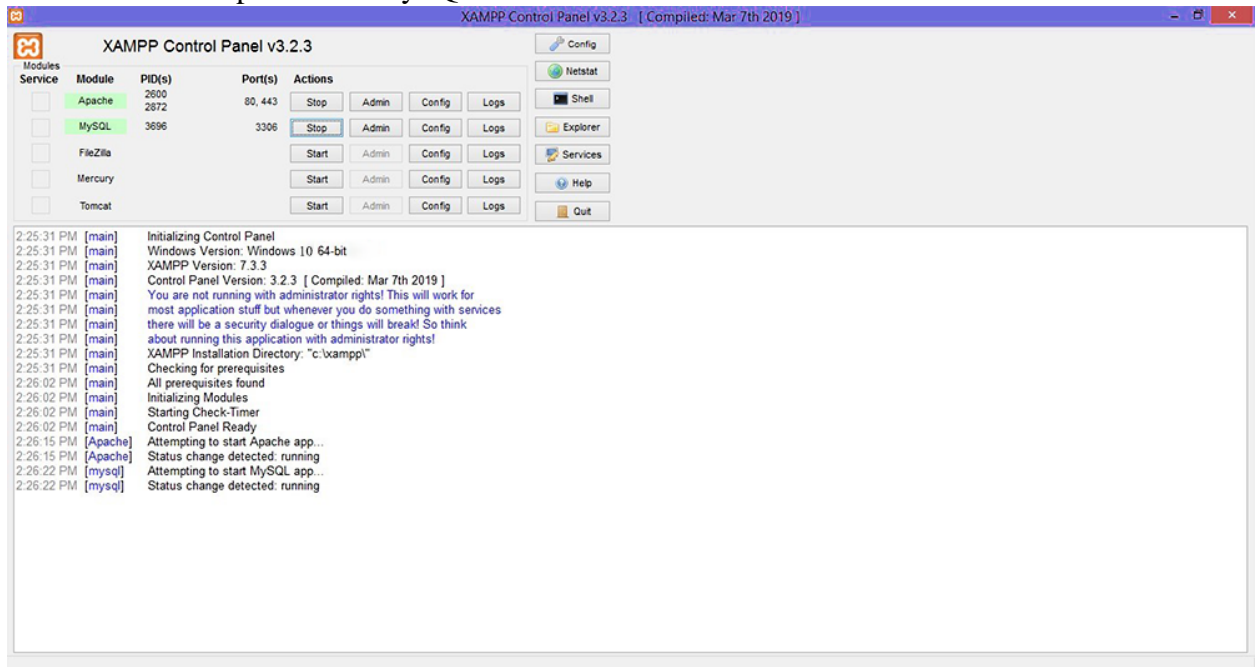
### LAPORAN PRAKTIKUM

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

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
G:\>cd G:\xampp\mysql\bin

G:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 3
Server version: 10.1.38-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 |
| kuliah |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
7 rows in set (0.17 sec)

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

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

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
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 3
Server version: 10.1.38-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 |
| kuliah |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
7 rows in set (0.17 sec)

MariaDB [(none)]> use perbankan
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 | Superman | 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. Superman 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 |
+-----+-----+-----+-----+
```

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

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
|-----+-----+-----+-----+-----+-----+
| 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 | 970000 |
| 80 | 12 | 101 | debit | 2017-05-26 00:00:00 | 850000 |
| 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. Kanti 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 |
| BRUN | 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]>
```