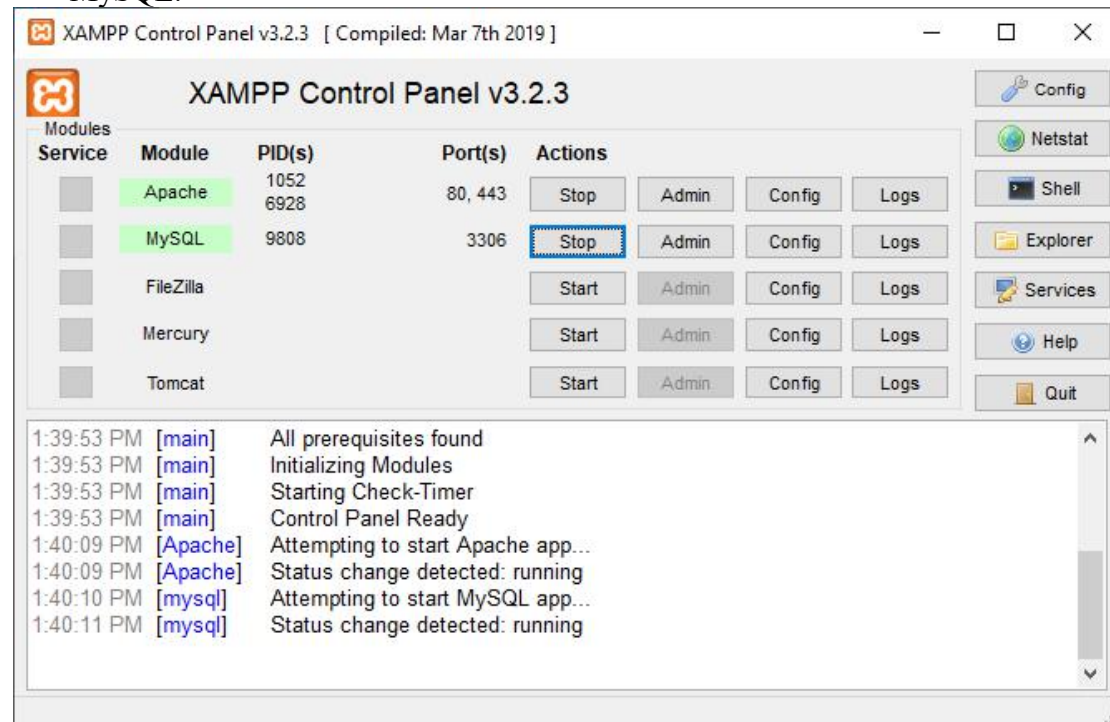Nama   : Rifqi Alwan Pramasandy
NIM   : L200180008
Kelas A

Latihan Modul 9

1. Menjalankan XAMPP Control Panel dan mengaktifkan server Apache dan MySQL.

2. Login sebagai root ke MySQL.

3. Memilih database perbankan.

4. Memasukkan user baru ke tabel user.

5. Memberi hak akses kepada user "myuser".

```
MariaDB [mysql]> grant select on perbankan.nasabah to myuser@localhost;
Query OK, 0 rows affected (0.09 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.02 sec)

MariaDB [mysql]> grant select on perbankan.cabang_bank to myuser@localhost;
Query OK, 0 rows affected (0.06 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.00 sec)
```

6. Keluar sebagai user root.

```
MariaDB [mysql]> exit
Bye
```

7. Login lagi sebagai "myuser".

```
c:\xampp\mysql\bin>mysql -u myuser -p
Enter password: ******
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 5
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.
```

8. Mengubah database yang digunakan ke database perbankan.

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

9. Select dan insert pada tabel nasabah.

```
MariaDB [perbankan]> SELECT * FROM nasabah;
+-----------+-------------------+---------------------+
| id_nasabah | nama_nasabah     | alamat_nasabah      |
+-----------+-------------------+---------------------+
|         1 | Sutopo           | Jl.Jendral Sudirman |
|         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 Murni       | Jl.Pangandaran 15   |
|         9 | Canka Lokananta  | Jl.Tidar 86         |
|        10 | Budi Murtono     | Jl.Merak 22         |
|        12 | Joko             | Boyolali            |
|        31 | Susilo           | Sukoharjo           |
|        32 | Susi             | Karanganyar         |
+-----------+-------------------+---------------------+
13 rows in set (0.20 sec)

MariaDB [perbankan]> INSERT INTO nasabah VALUES('31', 'Susilo', 'Sukoharjo');
ERROR 1142 (42000): INSERT command denied to user 'myuser'@'localhost' for table 'nasabah'
```

Ketika insert pada tabel nasabah, hasilnya error karena belum memberi hak akses insert pada tabel nasabah.

10. Exit dan login lagi sebagai root.

```
MariaDB [perbankan]> exit
Bye

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 6
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.
```

11. Menghilangkan salah satu privilege untuk myuser.

```
MariaDB [(none)]> REVOKE SELECT ON perbankan.nasabah FROM myuser@localhost;
Query OK, 0 rows affected (0.06 sec)

MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.00 sec)
```

12. Exit dan kembali login sebagai user "myuser".

```
MariaDB [(none)]> exit
Bye

c:\xampp\mysql\bin>mysql -u myuser -p
Enter password: ******
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 7
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.
```

13. Menggunakan database perbankan.

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

14. Select pada tabel.

```
MariaDB [perbankan]> SELECT * FROM nasabah;
ERROR 1142 (42000): SELECT command denied to user 'myuser'@'localhost' for table 'nasabah'
```

Hasilnya error karena hak akses select pada tabel nasabah telah dihapus.

Tugas Modul 9

1. Membuat user baru dengan nama 'rifqialwan@localhost'.

```
C:\Users\asusX441u>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 8
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)]> use mysql
Database changed
MariaDB [mysql]> CREATE USER 'rifqialwan'@'localhost' identified by 'rifqialwan';
Query OK, 0 rows affected (0.29 sec)
```

2. Memberi privileges user dengan ketentuan
   a. Dapat melakukan insert, update, dan delete pada tabel nasabah.

```
MariaDB [mysql]> GRANT INSERT ON perbankan.nasabah to rifqialwan@localhost;
Query OK, 0 rows affected (0.13 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.13 sec)

MariaDB [mysql]> GRANT UPDATE ON perbankan.nasabah to rifqialwan@localhost;
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> GRANT DELETE ON perbankan.nasabah to rifqialwan@localhost;
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.02 sec)
```

   b. Hanya dapat melakukan select pada tabel cabang_bank.

```
MariaDB [mysql]> GRANT SELECT ON perbankan.cabang_bank to rifqialwan@localhost;
Query OK, 0 rows affected (0.13 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> exit
Bye
```

3. Login sebagai user 'rifqialwan@localhost'.
   a. Select pada tabel nasabah.

```
MariaDB [perbankan]> SELECT * FROM nasabah;
ERROR 1142 (42000): SELECT command denied to user 'rifqialwan'@'localhost' for table 'nasabah'
```

   b. Insert pada tabel nasabah.

```
MariaDB [perbankan]> INSERT INTO nasabah VALUES (41, 'Aminah', 'Solo');
Query OK, 1 row affected (0.17 sec)
```

c. Insert pada tabel cabang_bank.

```
MariaDB [perbankan]> INSERT INTO cabang_bank VALUES ('BRUD', 'Bank Rut Unit Demak', 'Jl. Halmahera 21');
ERROR 1142 (42000): INSERT command denied to user 'rifqialwan'@'localhost' for table 'cabang_bank'
MariaDB [perbankan]>
```

4. Analisa hasil percobaan.
   - SELECT pada tabel nasabah error karena pada tabel nasabah tidak membuat grant dengan hak akses select.
   - INSERT pada tabel nasabah tidak error karena pad atabel nasabah telah membuat grant dengan hak akses insert.
   - INSERT pada tabel cabang_bank tidak error karena pada cabang_bank telah membuat grant dengan hak akses insert.