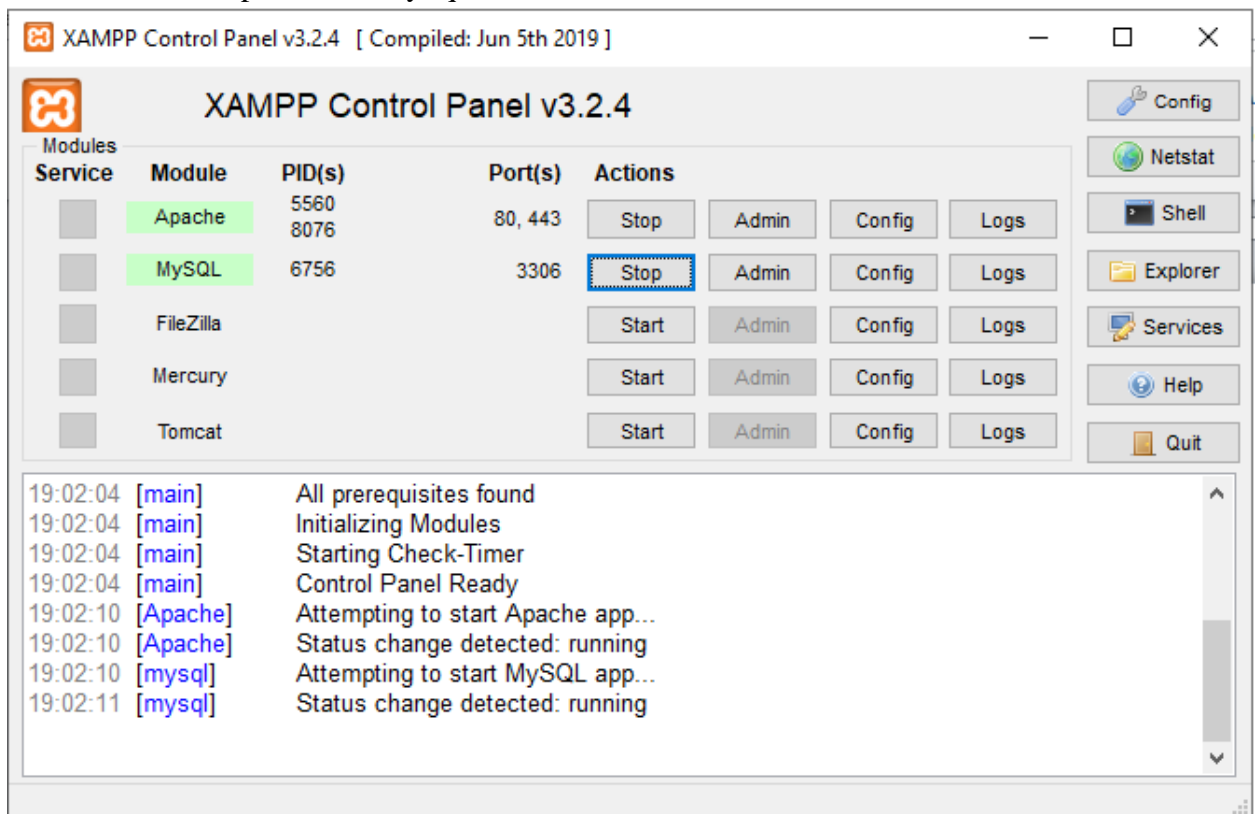Nama : Faizal Wahyu N

NIM : L200180011

Kelas : A

Praktikum Sistem Basis data
Modul 9

Latihan/Langkah Praktikum

1. Jalankan Xampp Control Panel
2. Jalankan Server Apache dan MySql

3. Buka Command Prompt dan Login sebagai root ke MySQL seperti di langkah Modul 1

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

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

5. Masukkan user baru ke tabel user

```
MariaDB [mysql]> CREATE USER "FaizalW"@"localhost" IDENTIFIED BY "faizal747";
Query OK, 0 rows affected (0.401 sec)
```

6. Berikan Hak Akses kepada user 'FaizalW'

```
MariaDB [mysql]> GRANT SELECT ON perbankan.nasabah to FaizalW;
Query OK, 0 rows affected (0.305 sec)

MariaDB [mysql]> FLUSH PRIVELEGES;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
on for the right syntax to use near 'PRIVELEGES' at line 1
MariaDB [mysql]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [mysql]> GRANT SELECT ON perbankan.cabang_bank to FaizalW;
Query OK, 0 rows affected (0.604 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)
```

7. Keluar sebagai user root dengan syntax 'exit'

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

8. Login lagi sebagai 'FaizalW'

```
D:\xampp\mysql\bin>mysql -u FaizalW -p
Enter password: *********
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 10
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)]>
```

9. Ubah database yang digunakan ke database perbankan

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

10. Coba lakukan select pada tabel nasabah dengan sintaks sebagai berikut :
SELCET*FROM nasabah; Selanjutnya coba lakukan insert pada tabel nasabah dengan

sintaks berikut : INSERT INTO nasabah VALUES ('31', 'Susilo', 'Sukoharjo');

```
MariaDB [(none)]> use perbankan;
Database changed
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 | Pasha            | Wonogiri               |
|         12 | Dila             | Wonogiri               |
|         13 | Retno            | Wonogiri               |
|         14 | Chaterina        | Wonogiri               |
|         15 | Siti             | Wonogiri               |
|         16 | Srinatun         | Wonogiri               |
|         17 | Hanifah          | Solo                   |
|         18 | Damar            | Solo                   |
|         19 | Rohana           | Solo                   |
|         20 | Saidah           | Solo                   |
+------------+------------------+------------------------+
19 rows in set (0.219 sec)

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

11. Kemudian ketikan perintah 'exit', kemudian login lagi sebagai root.

```
MariaDB [perbankan]> exit
Bye

D:\xampp\mysql\bin>mysql -u FaizalW -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)]>
```

12. Kemudian hilangkan salah satu previlege untuk user myuser. REVOKE SELECT on perbankan.nasabah FROM myuser; FLUSH PRIVILEGES;

```
MariaDB [(none)]> REVOKE SELECT on perbankan.nasabah FROM FaizalW;
ERROR 1142 (42000): GRANT command denied to user 'FaizalW'@'localhost' for table 'nasabah'
MariaDB [(none)]> REVOKE SELECT on perbankan.nasabah from FaizalW;
ERROR 1142 (42000): GRANT command denied to user 'FaizalW'@'localhost' for table 'nasabah'
MariaDB [(none)]> FLUSH PRIVILEGE;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'PRIVILEGE' at line 1
MariaDB [(none)]>
```

13. Kemudian exit dan kembali login sebagau user 'FaizalW'.

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

D:\xampp\mysql\bin>mysql -u FaizalW -p
Enter password: *********
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 12
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.
```

14. Gunakan database perbankan dengan sintaks 'use perbankan'

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

15. Selanjutnya silahkan dicoba untuk menggunakan perintah SELECT pada tabel nasabah

```
MariaDB [perbankan]> SELECT * FROM nasabah;
```

TUGAS

1. Buat user baru sesuai dengan nama anda masing-masing

```
MariaDB [mysql]> CREATE USER "FaizalW"@"localhost" IDENTIFIED BY "faizal747";
Query OK, 0 rows affected (0.401 sec)
```

2.   a. Dapat melakukan INSERT, UPDATE, dan DELETE pada tabel nasabah

```
MariaDB [(none)]> use mysql;
Database changed
MariaDB [mysql]> GRANT INSERT ON perbankan.nasabah to root;
Query OK, 0 rows affected (0.092 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [mysql]> GRANT UPDATE ON perbankan.nasabah to root;
Query OK, 0 rows affected (0.058 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [mysql]> GRANT DELETE ON perbankan.nasabah to root;
Query OK, 0 rows affected (0.070 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [mysql]>
```

b. Hanya dapat melakukan SELECT pada tabel cabang_bank.

```
MariaDB [mysql]> GRANT SELECT ON perbankan.cabang_bank to root;
Query OK, 0 rows affected (0.096 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [mysql]>
```

3. Coba lakukan kasus berikut ini dengan login sebagai user yang dibuat dan screenshot hasilnya.

Login user :

```
D:\xampp\mysql\bin>mysql -u FaizalW -p
Enter password: *********
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 16
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)]> use perbankan;
Database changed
MariaDB [perbankan]>
```

a. Lakukan perintah SELECT pada tabel nasabah.

```
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 | Pasha            | Wonogiri               |
|         12 | Dila             | Wonogiri               |
|         13 | Retno            | Wonogiri               |
|         14 | Chaterina        | Wonogiri               |
|         15 | Siti             | Wonogiri               |
|         16 | Srinatun         | Wonogiri               |
|         17 | Hanifah          | Solo                   |
|         18 | Damar            | Solo                   |
|         19 | Rohana           | Solo                   |
|         20 | Saidah           | Solo                   |
+------------+------------------+------------------------+
19 rows in set (0.000 sec)

MariaDB [perbankan]>
```

Berhasil, dikarenakan user FaizalW diberi akses untuk melakukan insert pada tabel nasabah.

b. Lakukan perintah INSERT pada tabel nasabah.

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

Terjadi error dikarenakan user FaizalW tidak diberikan akses untuk melakukan select pada tabel nasabah.

c. Lakukan perintah SELECT pada tabel cabang_bank

```
MariaDB [perbankan]> INSERT INTO cabang_bank VALUES ('BRUB', 'Bank Rut Unit Boyolali', 'jl.Ahmad Yani 45');
ERROR 1142 (42000): INSERT command denied to user 'FaizalW'@'localhost' for table 'cabang_bank'
MariaDB [perbankan]>
```

Terjadi error dikarenakan user FaizalW tidak diberikan akses untuk melakukan select pada tabel nasabah