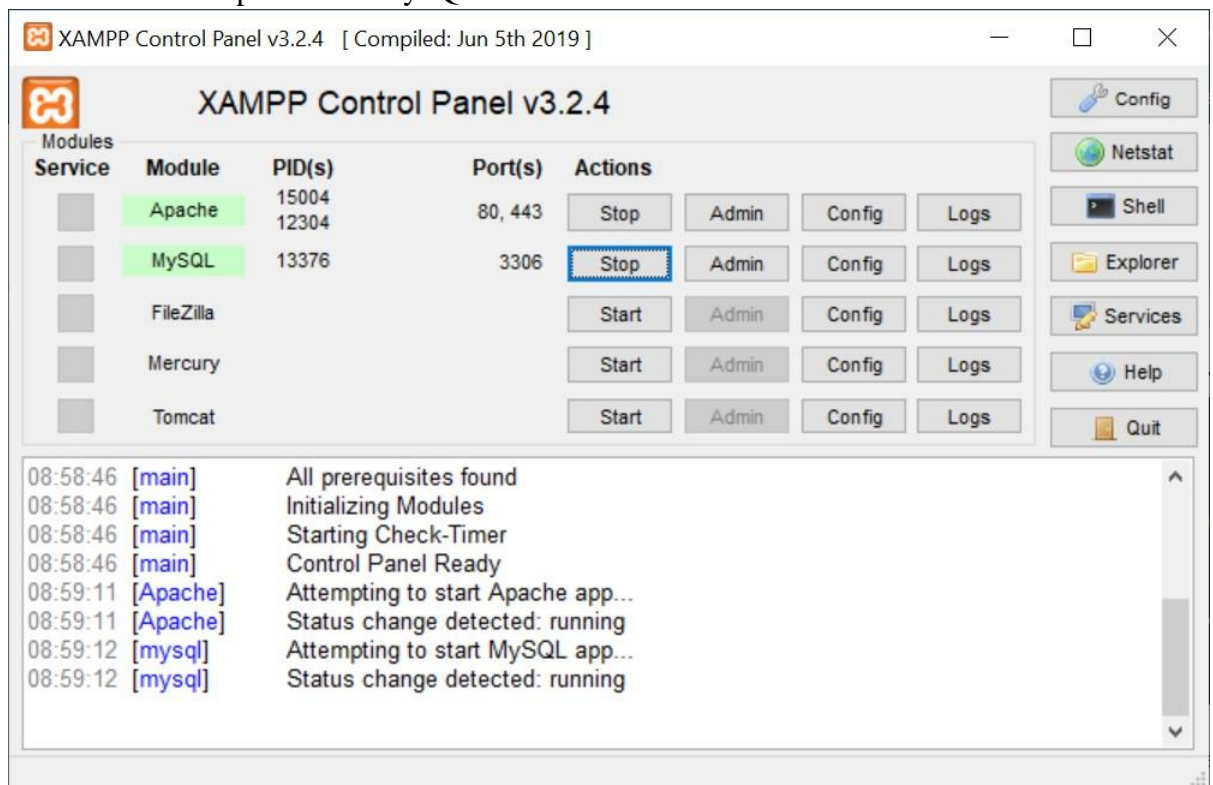


## MODUL 9. DATA CONTROL LANGUAGE

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1. Jalankan XAMPP Control Panel
2. Jalankan server Apache dan MySQL



3. Buka Command Prompt dan login sebagai root ke MySQL

```
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 9
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.
```

- Pilih database perbankan dengan perintah “use mysql;”. Sehingga akan muncul pemberitahuan “database changed”

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

- Masukkan user baru ke tabel user dengan sintaks :  
create user "myuser"@"localhost" identified by "myuser";

```
MariaDB [mysql]> create user "myuser"@"localhost" identified by "myuser";
Query OK, 0 rows affected (0.037 sec)
```

- Berikan hak akses kepada user “myuser” dengan sintaks:  
GRANT SELECT on perbankan.nasabah to myuser@localhost;  
FLUSH PRIVILEGES;  
GRANT SELECT on perbankan.cabang\_bank to myuser@localhost;  
FLUSH PRIVILEGES;

```
MariaDB [mysql]> GRANT SELECT on perbankan.nasabah to myuser@localhost;
Query OK, 0 rows affected (0.009 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.009 sec)

MariaDB [mysql]> GRANT SELECT on perbankan.cabang_bank to myuser@localhost;
Query OK, 0 rows affected (0.003 sec)

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

- Keluar sebagai user root dengan sintaks “exit;”

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

- Login lagi sebagai “myuser” dengan sintaks: mysql -u myuser -p

```
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 11
Server version: 10.4.11-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

- Mengubah database yang digunakan ke database perbankan dengan sintaks: use perbankan;

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

10. Melakukan select pada tabel nasabah dengan sintaks:

select \*from 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         | Kim           | Jl. Anggrek 10          |
| 12         | Dodo          | Jl. Melati 17           |
| 13         | Dimas        | Jl. Tulip 73            |
| 14         | Caca Marica   | Jl. Mawar 26            |
| 15         | Amelia       | Jl. Mangga 67           |
| 16         | Echa         | Jl. Terumbu Karang 29   |
| 17         | Melani       | Jl. Mintchoco 12        |
| 18         | Lani         | Jl. Angkasa 44          |
| 19         | Fitria       | Jl. Melodi 8            |
| 20         | Hana         | Jl. Sunflower 71        |
+-----+-----+-----+
19 rows in set (0.045 sec)
```

Melakukan insert pada tabel nasabah dengan sintaks:

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

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

11. Kemudian ketikkan perintah “exit”. Kemudian 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 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.
```

12. Menghilangkan salah satu privilege untuk user myuser dengan sintaks:

```
MariaDB [(none)]> REVOKE SELECT on perbankan.nasabah from myuser@localhost;
Query OK, 0 rows affected (0.008 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.004 sec)
```

13. Kemudian 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 13
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. Menggunakan database perbankan dengan sintaks “use perbankan;”

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

15. Menggunakan perintah SELECT pada tabel nasabah

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