

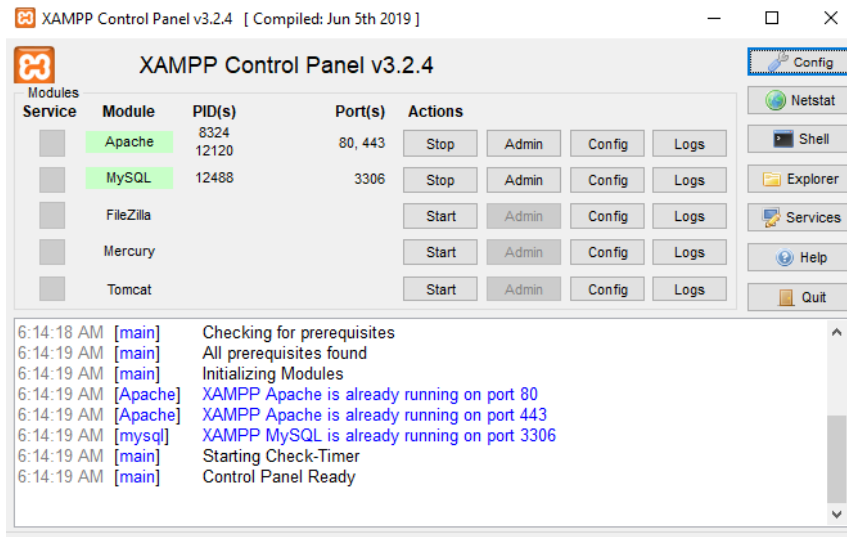
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## Modul 9

### Data Control Language

#### Kegiatan 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 pada Modul 1

```
C:\> Command Prompt - mysql -u root -p

Microsoft Windows [Version 10.0.18363.778]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\User>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 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.
```

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 table user

```
MariaDB [mysql]> create user 'cecyliavanka'@'localhost' identified by '070899';  
Query OK, 0 rows affected (0.662 sec)
```

6. Berikan hak akses kepada user “myuser”

```
MariaDB [mysql]> GRANT SELECT on perbankan.nasabah to myuser;  
Query OK, 0 rows affected (0.424 sec)  
  
MariaDB [mysql]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.083 sec)  
  
MariaDB [mysql]> GRANT SELECT on perbankan.cabang_bank to myuser;  
Query OK, 0 rows affected (0.105 sec)  
  
MariaDB [mysql]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.029 sec)
```

7. Keluar sebagai user root dengan syntax “exit”

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

8. Login lagi sebagai “myuser”

```
C:\xampp\mysql\bin>mysql -u myuser  
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.
```

9. Ubah database yang digunakan ke database perbankan dengan sintaks “use perbankan”. Sehingga akan muncul konfirmasi “database changed”

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

10. Coba lakukan select pada tabel nasabah dengan sintaks berikut

```
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. Pangadaran 11
9	Canka Lokananda	Jl. Tidar 86
10	Budi Murtono	Jl. Merak 22

```
10 rows in set (0.256 sec)
```

Selanjutnya coba lakukan insert pada tabel nasabah dengan sintaks berikut

```
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. Kemudian hilangkan salah satu privilege untuk user myuser dengan sintaks berikut ini

```
MariaDB [(none)]> REVOKE SELECT on perbankan.nasabah from myuser;  
Query OK, 0 rows affected (0.047 sec)  
  
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)]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.018 sec)
```

13. Kemudian exit dan Kembali login sebagai user “myuser”

```
MariaDB [(none)]> exit  
Bye  
  
C:\xampp\mysql\bin>mysql -u myuser  
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. 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;  
ERROR 1142 (42000): SELECT command denied to user 'myuser'@'localhost' for table 'nasabah'
```

## Tugas

1. Buat user baru sesuai nama anda masing-masing

```
C:\Users\User>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 14  
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 mysql;  
Database changed  
MariaDB [mysql]> create user 'cecyliavankah'@'localhost' identified by '7899';  
Query OK, 0 rows affected (0.053 sec)
```

2. Beri privilege untuk user tersebut dengan ketentuan sebagai berikut ini.

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

```
MariaDB [mysql]> GRANT INSERT on perbankan.nasabah to cecyliavankah@localhost;  
Query OK, 0 rows affected (0.037 sec)  
  
MariaDB [mysql]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.001 sec)  
  
MariaDB [mysql]> GRANT UPDATE on perbankan.nasabah to cecyliavankah@localhost;  
Query OK, 0 rows affected (0.033 sec)  
  
MariaDB [mysql]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.001 sec)  
  
MariaDB [mysql]> GRANT DELETE on perbankan.nasabah to cecyliavankah@localhost;  
Query OK, 0 rows affected (0.035 sec)  
  
MariaDB [mysql]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.001 sec)
```

- b. Hanya dapat melakukan SELECT pada tabel cabang\_bank

```
MariaDB [mysql]> GRANT SELECT on perbankan.cabang_bank to cecyliavankah@localhost;  
Query OK, 0 rows affected (0.058 sec)  
  
MariaDB [mysql]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.001 sec)
```

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

```
MariaDB [mysql]> exit
Bye

C:\xampp\mysql\bin>mysql -u cecyliaivankah -p
Enter password:
ERROR 1045 (28000): Access denied for user 'cecyliaivankah'@'localhost' (using password: NO)

C:\xampp\mysql\bin>mysql -u cecyliaivankah -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
```

- a. Lakukan perintah SELECT pada tabel nasabah

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

- b. Lakukan perintah INSERT pada tabel nasabah

```
MariaDB [perbankan]> insert into nasabah values('11', 'Cecylia Ivanka', 'Solo');
Query OK, 1 row affected (0.147 sec)
```

- c. Lakukan perintah INSERT pada tabel cabang\_bank

```
MariaDB [perbankan]> insert into cabang_bank values('BRUA', 'Bank Rut Unit Aceh', 'Jl. Pattimura 07');
ERROR 1142 (42000): INSERT command denied to user 'cecyliaivankah'@'localhost' for table 'cabang_bank'
```

4. Analisa hasil percobaan kalian tersebut

- a. Pada nomor 3 poin a tidak dapat melakukan perintah select pada tabel nasabah karena pada tabel nasabah di dalam user cecyliaivankah tidak diberikan hak akses untuk dapat melakukan perintah select sehingga hasilnya menjadi error.
- b. Pada nomor 3 poin b dapat melakukan perintah insert pada tabel nasabah karena pada tabel nasabah di dalam user cecyliaivankah sudah diberikan hak akses untuk dapat melakukan perintah insert sehingga hasilnya tidak error.
- c. Pada nomor 3 poin c tidak dapat melakukan perintah insert pada tabel cabang\_bank karena pada tabel cabang\_bank di dalam user cecyliaivankah tidak diberikan hak akses untuk dapat melakukan perintah insert sehingga hasilnya menjadi error.