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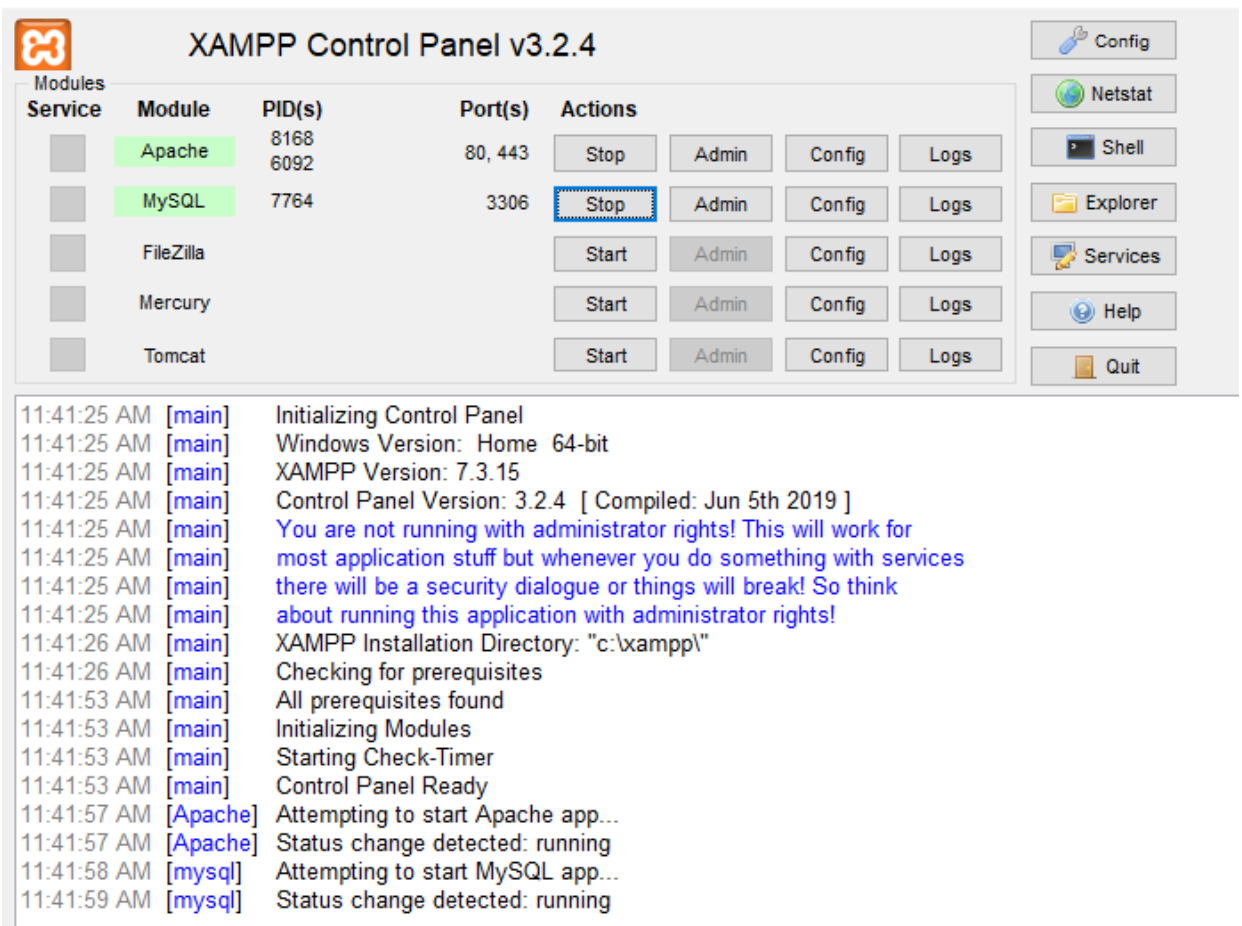
MODUL 9

DATA CONTROL LANGUAGE

LANGKAH-LANGKAH PRAKTIKUM

1. Jalankan XAMPP Control Panel

 XAMPP Control Panel v3.2.4 [Compiled: Jun 5th 2019]



XAMPP Control Panel v3.2.4

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	8168 6092	80, 443	<input type="button" value="Stop"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	MySQL	7764	3306	<input type="button" value="Stop"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	FileZilla			<input type="button" value="Start"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	Mercury			<input type="button" value="Start"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	Tomcat			<input type="button" value="Start"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>

Buttons on the right:

Log window:

```
11:41:25 AM [main] Initializing Control Panel
11:41:25 AM [main] Windows Version: Home 64-bit
11:41:25 AM [main] XAMPP Version: 7.3.15
11:41:25 AM [main] Control Panel Version: 3.2.4 [ Compiled: Jun 5th 2019 ]
11:41:25 AM [main] You are not running with administrator rights! This will work for
11:41:25 AM [main] most application stuff but whenever you do something with services
11:41:25 AM [main] there will be a security dialogue or things will break! So think
11:41:25 AM [main] about running this application with administrator rights!
11:41:26 AM [main] XAMPP Installation Directory: "c:\xampp\"
11:41:26 AM [main] Checking for prerequisites
11:41:53 AM [main] All prerequisites found
11:41:53 AM [main] Initializing Modules
11:41:53 AM [main] Starting Check-Timer
11:41:53 AM [main] Control Panel Ready
11:41:57 AM [Apache] Attempting to start Apache app...
11:41:57 AM [Apache] Status change detected: running
11:41:58 AM [mysql] Attempting to start MySQL app...
11:41:59 AM [mysql] Status change detected: running
```

2. Jalankan server Apache dan MySQL
3. Login sebagai root ke MySQL

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\ASUS>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 133
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 dengan perintah “use mysql”

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

5. Masukkan user baru ke table user

```
MariaDB [mysql]> create user 'baityjannatika'@'localhost' identified by '99999';
Query OK, 0 rows affected (0.049 sec)
```

6. Berikan hak akses kepada user “myuser”

```
MariaDB [mysql]> grant select on perbankan.nasabah to myuser;
Query OK, 0 rows affected (0.108 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.003 sec)

MariaDB [mysql]> grant select on perbankan.cabang_bank to myuser;
Query OK, 0 rows affected (0.074 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.002 sec)
```

7. Keluar sebagai user root

```
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 158  
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

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

10. Select pada table 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	Baity	Jl. Mawar 11
12	Janna	Jl. Melati 22
13	Tika	Jl. Barat 33
14	Lutfi	Jl. Utara 44
15	Ali	Jl. Timur 55
16	Mifta	Jl. Selatan 66
17	Alfina	Jl. Tenggara 77
18	Wafiq	Jl. Timur Laut 88
19	Dewi	Jl. Barat Daya 99
20	Falah	Jl. Barat Laut 90

```
19 rows in set (0.126 sec)
```

Insert pada table nasabah

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

11. Ketikkan perintah 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 165  
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. Hilangkan perintah privileges untuk user myuser

```
MariaDB [(none)]> revoke select on perbankan.nasabah from myuser;  
Query OK, 0 rows affected (0.120 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 (0.002 sec)
```

13. 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 166  
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

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

15. Coba menggunakan perintah select pada table nasabah

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

TUGAS

1. Buat user baru dengan nama masing-masing

```
C:\> Command Prompt - mysql -u root -p  
Microsoft Windows [Version 10.0.15063]  
(c) 2017 Microsoft Corporation. All rights reserved.  
  
C:\Users\ASUS>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 183  
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 'baityyyjannatikaa'@'localhost' identified by '211';  
Query OK, 0 rows affected (0.088 sec)  
  
MariaDB [mysql]> use mysql;  
Database changed
```

2. Beri privileges untuk user

a. Dapat melakukan insert, update, dan delete pada table nasabah

```
MariaDB [mysql]> grant insert on perbankan.nasabah to baityyjannatikaa@localhost;
Query OK, 0 rows affected (0.046 sec)

MariaDB [mysql]> grant update on perbankan.nasabah to baityyjannatikaa@localhost;
Query OK, 0 rows affected (0.034 sec)

MariaDB [mysql]> grant delete on perbankan.nasabah to baityyjannatikaa@localhost;
Query OK, 0 rows affected (0.036 sec)
```

b. Hanya dapat melakukan select pada table cabang_bank

```
MariaDB [mysql]> grant select on perbankan.cabang_bank to baityyjannatikaa@localhost;
Query OK, 0 rows affected (0.071 sec)
```

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

```
MariaDB [mysql]> exit
Bye

C:\xampp\mysql\bin>mysql -u baityyjannatikaa -p
Enter password: ***
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 198
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 table nasabah

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

b. Lakukan perintah insert pada table nasabah

```
MariaDB [perbankan]> insert into nasabah values ('31', 'nana', 'kartasura');
Query OK, 1 row affected (0.100 sec)
```

c. Lakukan perintah insert pada table cabang_bank

```
MariaDB [perbankan]> insert into cabang_bank values ('BRUKS', 'Bank Rut Unit Klaten Utara', 'Jl. Pemuda 45');
ERROR 1142 (42000): INSERT command denied to user 'baityyjannatikaa'@'localhost' for table 'cabang_bank'
```

4. Analisa hasil percobaan

- a. Pada poin **a nomer 3** tidak dapat melakukan perintah select pada table nasabah karena pada langkah sebelumnya pada table nasabah di dalam user baityyjannatikaa tidak diberikan akses untuk dapat melakukan perintah select sehingga output yang dihasilkan menjadi error.
- b. Pada poin **b nomer 3** dapat melakukan perintah insert pada table nasabah karena pada langkah sebelumnya pada table nasabah di dalam user baityyjannatikaa sudah diberikan hak akses untuk dapat melakukan perintah insert sehingga output yang dihasilkan tidak bernilai error
- c. Pada poin **c nomer 3** tidak dapat melakukan perintah insert pada table cabang_bank karena pada langkah sebelumnya pada table nasabah di dalam user baityyjannatikaa tidak diberikan akses untuk dapat melakukan perintah insert dan hanya diberi hak akses untuk melakukan perintah select saja sehingga output yang dihasilkan menjadi error.