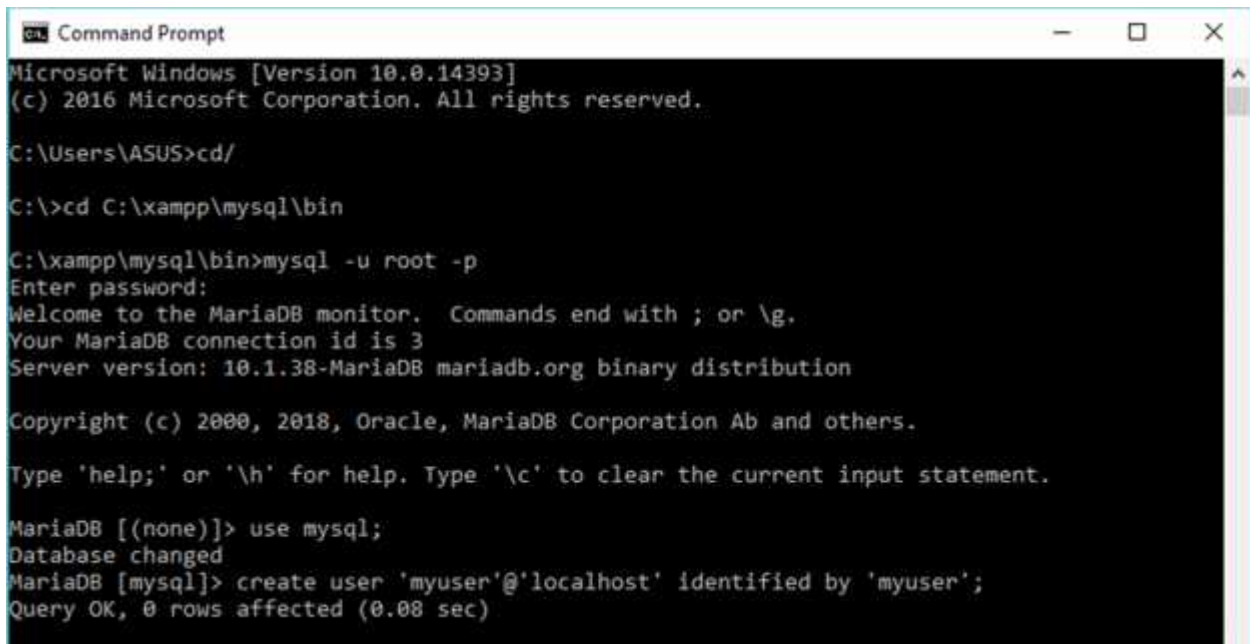


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KELAS : A

## Modul 9

### Data Control Language

- >> membuka command prompt dan login sebagai root ke mySQL
- >> melakukan perintah 'use mysql' hingga muncul 'database changed'
- >> memasukan user baru serta password dengan nama 'myuser'



```
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\ASUS>cd/

C:\>cd C:\xampp\mysql\bin

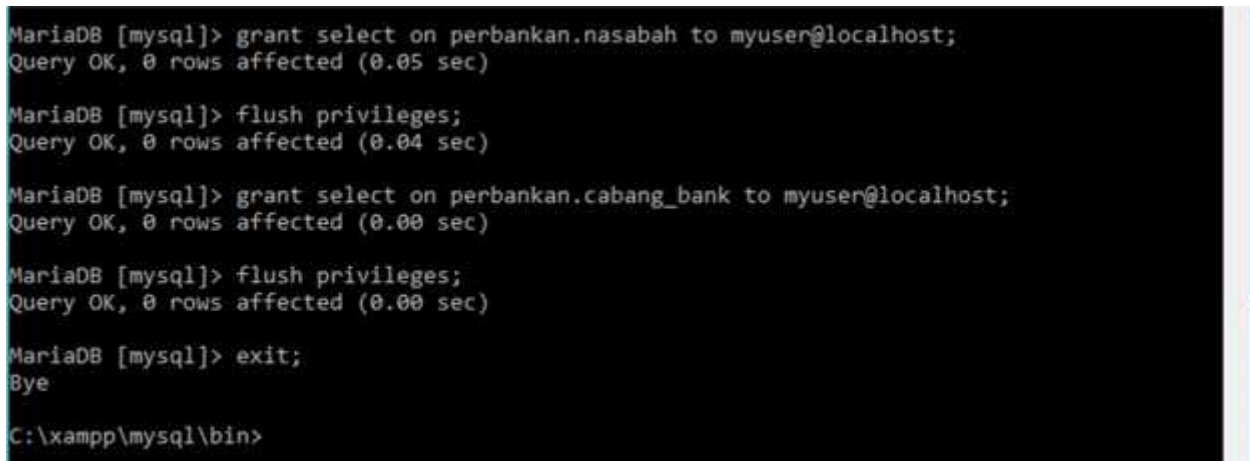
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 3
Server version: 10.1.38-MariaDB mariadb.org binary distribution

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 'myuser'@'localhost' identified by 'myuser';
Query OK, 0 rows affected (0.08 sec)
```

- >> memberi hak akses pada user 'myuser'
- >> keluar sebagai root dengan syntax 'exit'



```
MariaDB [mysql]> grant select on perbankan.nasabah to myuser@localhost;
Query OK, 0 rows affected (0.05 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.04 sec)

MariaDB [mysql]> grant select on perbankan.cabang_bank to myuser@localhost;
Query OK, 0 rows affected (0.00 sec)

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

MariaDB [mysql]> exit;
Bye

C:\xampp\mysql\bin>
```

>>login sebagai 'myuser'

>>mengubah database dengan sintax 'use perbankan' hingga muncul 'database changed'

>>mencoba melakukan select pada table nasabah >>muncul hasil karena sudah ada grant select sebelumnya

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

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.

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> select * from nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah
1	Sutopo	Jl. Jend Sudirman 12
2	Maryati	Jl. M.T Haryanto 31
3	Parman	Jl. Hassanudin 81
4	Kartika Padmasari	Jl. Manggis 15
5	Budi Eko Prayoga	Jl. Kantil 30
6	Satria Eka Jaya	Jl. Slamt Riyadi 45
8	Sari Murti	Jl. Pangandaran 1
9	Canka Lokananta	Jl. Tidar 86
10	Budi Murtono	Jl. Merak 22
11	Ahmad	Jl. Jend Sudirman 20
12	Sri Maryati	Jl. M.T Haryanto 11
13	Supardi	Jl. Hassanudin 31
14	Riska	Jl. Manggis 5
15	Andi Setiawan	Jl. Kantil 10
16	Eko Atmaja	Jl. Slamt Riyadi 5
17	Listiani	Jl. Sutoyo 25
18	Yuliana	Jl. Pangandaran 31
19	Candra Aji	Jl. Tidar 6
20	Asriana	Jl. Merak 2

```
19 rows in set (0.00 sec)
```

>>menghilangkan salah satu privileges untuk user myuser dengan 'revoke'

```
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

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

MariaDB [(none)]> revoke select on perbankan.nasabah from myuser@localhost;
Query OK, 0 rows affected (0.29 sec)

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

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

>> masuk sebagai myuser

>> mengubah database perbankan dengan 'use perbankan' hingga muncul 'database changed'

>> melakukan perintah select pada table nasabah >> disini hasilnya error karena sebelumnya belum member hak akses select pada table nasabah

```
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.

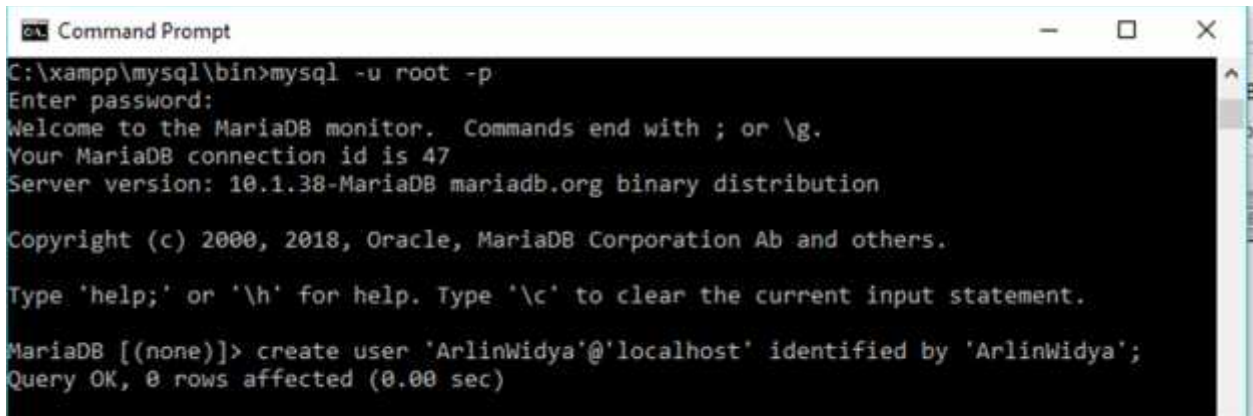
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> select * from nasabah;
ERROR 1142 (42000): SELECT command denied to user 'myuser'@'localhost' for table 'nasabah'

MariaDB [perbankan]>
```

## TUGAS

>>Membuat user baru dengan nama 'ArlinWidya'



```
Command Prompt
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 47
Server version: 10.1.38-MariaDB mariadb.org binary distribution

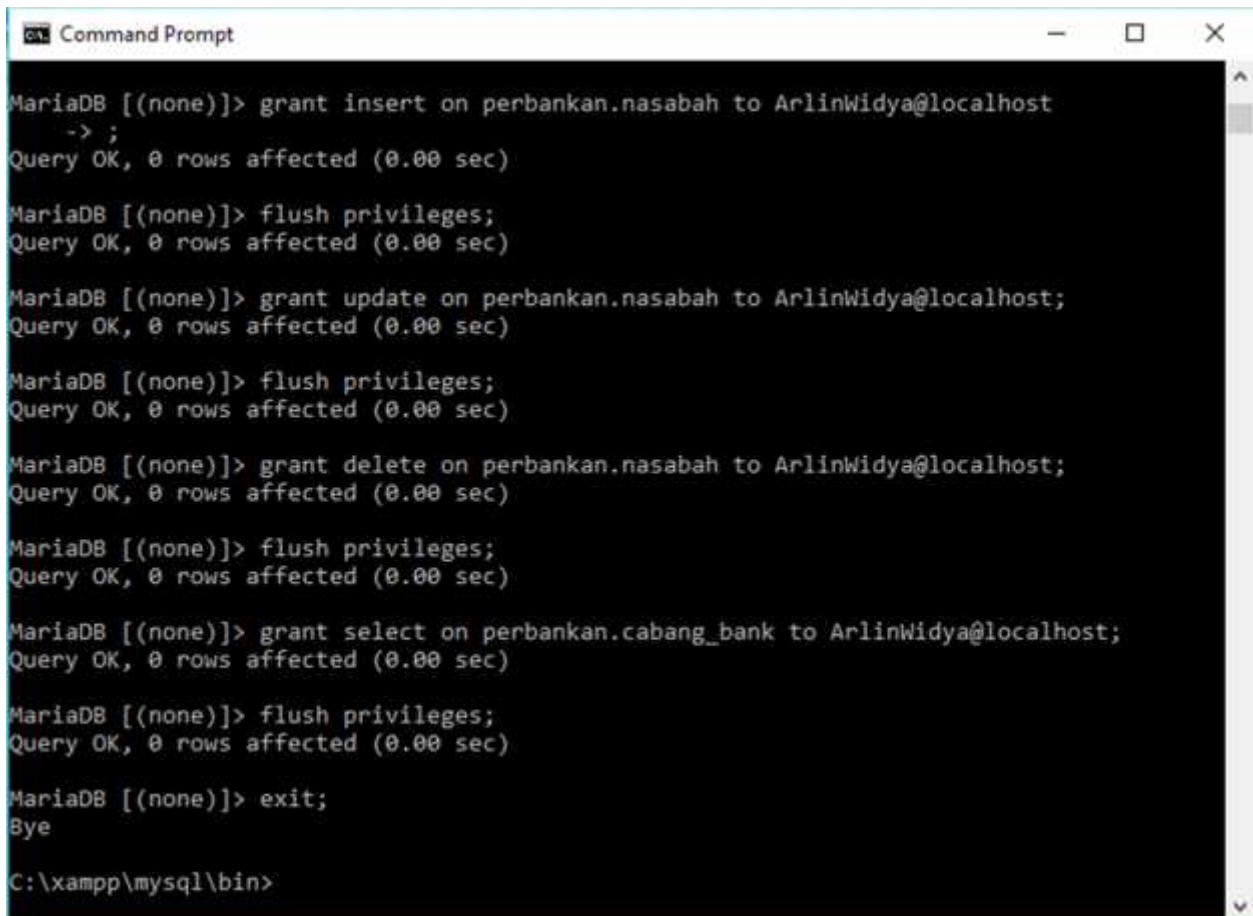
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> create user 'ArlinWidya'@'localhost' identified by 'ArlinWidya';
Query OK, 0 rows affected (0.00 sec)
```

>>Member privileges dengan insert, update dan delete pada table nasabah

>>Melakukan select pada table cabang\_bank >>> pada saat melakukan select hasilnya error karena sebelumnya tidak membuat grant select pada cabang\_bank.



```
Command Prompt
MariaDB [(none)]> grant insert on perbankan.nasabah to ArlinWidya@localhost
-> ;
Query OK, 0 rows affected (0.00 sec)

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

MariaDB [(none)]> grant update on perbankan.nasabah to ArlinWidya@localhost;
Query OK, 0 rows affected (0.00 sec)

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

MariaDB [(none)]> grant delete on perbankan.nasabah to ArlinWidya@localhost;
Query OK, 0 rows affected (0.00 sec)

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

MariaDB [(none)]> grant select on perbankan.cabang_bank to ArlinWidya@localhost;
Query OK, 0 rows affected (0.00 sec)

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

MariaDB [(none)]> exit;
Bye

C:\xampp\mysql\bin>
```

- ) Perintah select pada table nasabah >>> hasilnya error karena tidak membuat grant dengan hak akses select
- ) Perintah insert pada table nasabah >>> hasilnya tidak error/memiliki hasil karena sebelumnya sudah membuat grant insert
- ) Perintah insert pada table cabang\_bank >>> hasilnya error karena tidak membuat grant select pada cabang\_bank

```

C:\xampp\mysql\bin>mysql -u ArlinWidya -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 50
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 perbankan;
Database changed
MariaDB [perbankan]> select * from nasabah;
ERROR 1142 (42000): SELECT command denied to user 'ArlinWidya'@'localhost' for table 'nasabah'
MariaDB [perbankan]> insert into nasabah (id_nasabah, nama_nasabah, alamat_nasabah) values (41, 'Lisa', 'Solo');
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) values ("BRUJS", "Bank Rut Unit Jakarta Selatan", "Jl. Merak 23");
ERROR 1142 (42000): INSERT command denied to user 'ArlinWidya'@'localhost' for table 'cabang_bank'
MariaDB [perbankan]>

```

>>>Analisa percobaan : Grant memiliki fungsi untuk membuat user baru dan memberikan hak istimewa. Grant merupakan privilege untuk tabel. Dimana dalam percobaan ini apabila sebelum melakukan hak akses pada sebuah tabel maka harus membuat GRANT dengan privilege yang dibutuhkan terlebih dahulu. Apabila tidak membuat grant dengan privilege terlebih dahulu maka hasilnya akan error. Revoke digunakan untuk menghapus batasan hak akses yang telah diatur menggunakan perintah GRANT.