

**Nama : Kemas Muhammad Kevin**

**Nim : L200184033**

**Kelas : H**

## **Modul 9**

### **Data Control Language**

#### **A. Praktikum**

1. Jalankan XAMPP Control Panel
2. Jalakan server Apache dan MySQL
3. Buka comand prompt dan login sebagai root ke mysql
4. Pilih database perbankan dengan perintah 'use mysql'

```
+-----+
| Database |
+-----+
| check    |
| datakuliah |
| information_schema |
| mysql    |
| perbankan |
| performance_schema |
+-----+
6 rows in set (0.001 sec)

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

5. Masukkan user baru dengan mengetikkan :  
create user 'nana'@'localhost' identified by '144';

```
MariaDB [mysql]> create user 'nana'@'localhost' identified by '144';
Query OK, 0 rows affected (0.435 sec)
```

6. Memberikan hak akses kepada nana

```
MariaDB [mysql]> GRANT SELECT on perbankan.nasabah to nana@localhost;
Query OK, 0 rows affected (0.210 sec)
```

```
MariaDB [mysql]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.463 sec)
```

```
MariaDB [mysql]> GRANT SELECT on perbankan.cabang_bank to nana@localhost;
Query OK, 0 rows affected (0.128 sec)
```

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

7. Keluar dari user root

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

8. Login sebagai nana

```

C:\xampp\mysql\bin>mysql -u nana -p
Enter password: ***
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 451
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 state
ment.

MariaDB [(none)]> _

```

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

```

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

```

10. Coba lakukan SELECT dan INSERT pada tabel nasabah

```

C:\Windows\system32\cmd.exe - mysql -u nana -p
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 31 |
| 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 | Aulia Husnia | Jl. Jahe 12 |
| 12 | Anita Rohmawati | Jl. Laos 31 |
| 13 | Karina Melati | Jl. Kunyit 81 |
| 14 | Anton Pamungkas | Jl. Pala 15 |
| 15 | Muh Prayoga | Jl. Ketumbar 31 |
| 16 | Nur Safitri | Jl. Pandan 45 |
| 17 | Rahmadi | Jl. Lada 5 |
| 18 | Galih Aprianto | Jl. Bawang 11 |
| 19 | Yuki | Jl. Kemiri 86 |
| 20 | Snowie | Jl. Kencur 22 |
+-----+-----+-----+
19 rows in set (0.001 sec)

MariaDB [perbankan]> INSERT INTO nasabah values('31','Susilo','Sukoharjo');
ERROR 1142 (42000): INSERT command denied to user 'nana'@'localhost' for ta
ble 'nasabah'
MariaDB [perbankan]> _

```

Perintah SELECT dapat dijalankan karena mendapat hak akses SELECT, sedangkan perintah INSERT hasilnya error karena tidak mendapat hak akses INSER

11. Ketikkan perintah “exit”. Login sebagai root

```
C:\Windows\system32\cmd.exe - mysql -u root -p

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 452
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. Menghilangkan salah satu privilege

```
C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [(none)]> REVOKE SELECT on perbankan.nasabah FROM nana@localhost;
Query OK, 0 rows affected (0.173 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]>
```

## 13. Keluar dari root, lalu masuk sebagai nana

```
C:\Windows\system32\cmd.exe - mysql -u nana -p

MariaDB [(none)]> exit;
Bye

C:\xampp\mysql\bin>mysql -u nana -p
Enter password: ***
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 455
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.

MariaDB [(none)]> _
```

## 14. Gunakan database perbankan

```
C:\Windows\system32\cmd.exe - mysql -u nana -p

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

## 15. Menggunakan perintah SELECT

### B. Tugas

#### 1. Membuat user baru dengan nama

```
MariaDB [(none)]> create user 'vintan' @localhost identified by 'nana44';
Query OK, 0 rows affected (0.470 sec)
```

#### 2. Memberi privileges

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

```
MariaDB [(none)]> GRANT INSERT, UPDATE, DELETE ON perbankan.nasabah to vintan@localhost;
Query OK, 0 rows affected (0.245 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.277 sec)
```

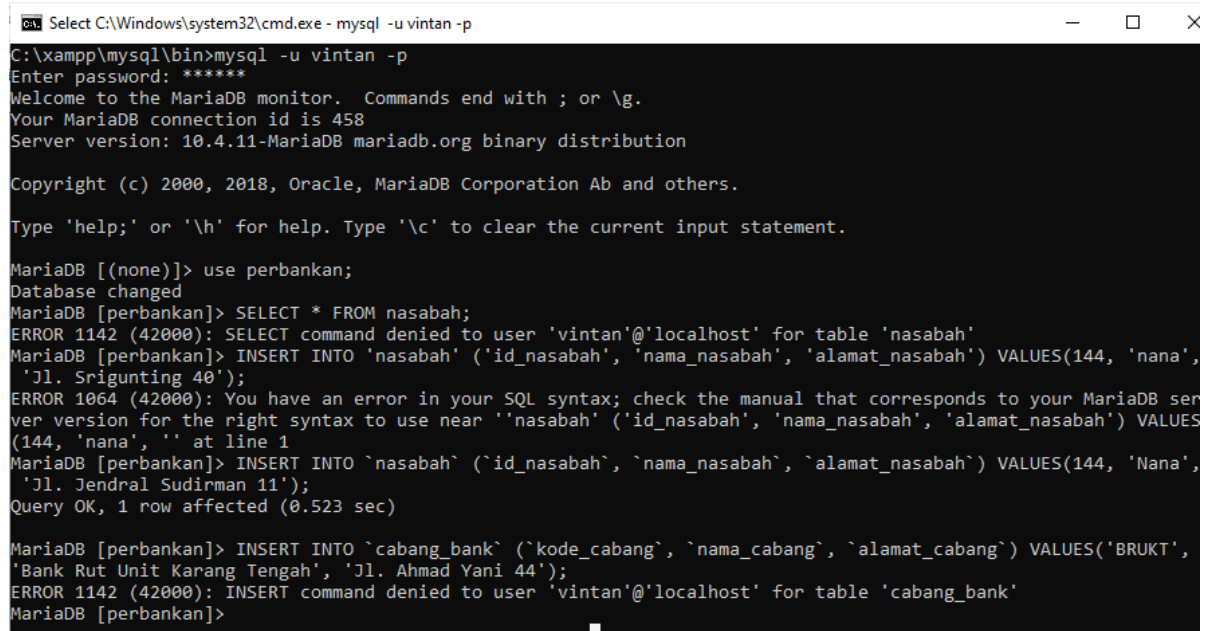
- b. Hanya melakukan SELECT pada tabel cabang bank

```
MariaDB [(none)]> GRANT SELECT ON perbankan.cabang_bank to vintan@localhost;
Query OK, 0 rows affected (0.203 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.018 sec)
```

3. Percobaan kasus dengan login sebagai user yang telah dibuat

- a. Perintah SELECT pada tabel nasabah  
b. Perintah INSERT pada tabel nasabah  
c. Perintah INSERT pada tabel cabang bank



```
Select C:\Windows\system32\cmd.exe - mysql -u vintan -p

C:\xampp\mysql\bin>mysql -u vintan -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 458
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]> SELECT * FROM nasabah;
ERROR 1142 (42000): SELECT command denied to user 'vintan'@'localhost' for table 'nasabah'
MariaDB [perbankan]> INSERT INTO `nasabah` (`id_nasabah`, `nama_nasabah`, `alamat_nasabah`) VALUES(144, 'nana',
'Jl. Srigunting 40');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB ser
ver version for the right syntax to use near ''nasabah' (`id_nasabah`, `nama_nasabah`, `alamat_nasabah`) VALUES
(144, 'nana', '' at line 1
MariaDB [perbankan]> INSERT INTO `nasabah` (`id_nasabah`, `nama_nasabah`, `alamat_nasabah`) VALUES(144, 'Nana',
'Jl. Jendral Sudirman 11');
Query OK, 1 row affected (0.523 sec)

MariaDB [perbankan]> INSERT INTO `cabang_bank` (`kode_cabang`, `nama_cabang`, `alamat_cabang`) VALUES('BRUKT',
'Bank Rut Unit Karang Tengah', 'Jl. Ahmad Yani 44');
ERROR 1142 (42000): INSERT command denied to user 'vintan'@'localhost' for table 'cabang_bank'
MariaDB [perbankan]>
```

4. Analisa hasil percobaan

- a. Perintah SELECT pada tabel nasabah gagal karena sebelumnya user 'vintan' tidak diberikan akses untuk melakukannya.  
b. Perintah INSERT pada tabel nasabah berhasil karena user 'vintan' sudah diberikan hak akses insert sebelumnya.

- c. Perintah `INSERT` pada tabel cabang bank berhasil karena user 'vintan' sudah diberikan hak akses insert sebelumnya.