

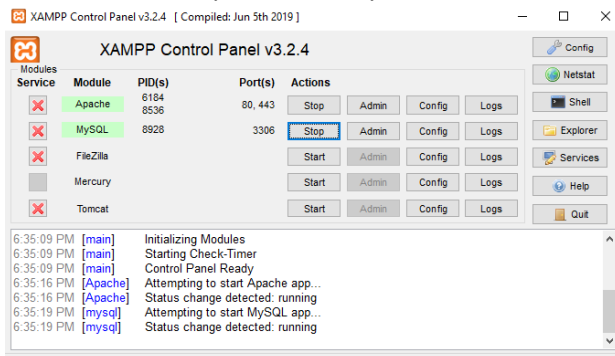
Nama : Galih Prayoga

NIM : L200180006

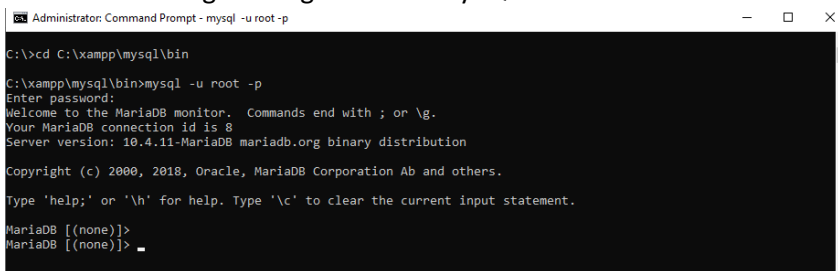
Kelas : A

Laporan Modul 9 Praktikum Basis Data

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



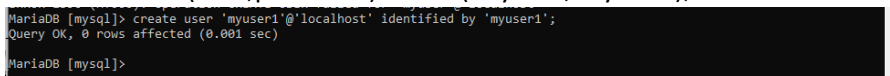
3. Buka cmd dan login sebagai root ke MySQL.



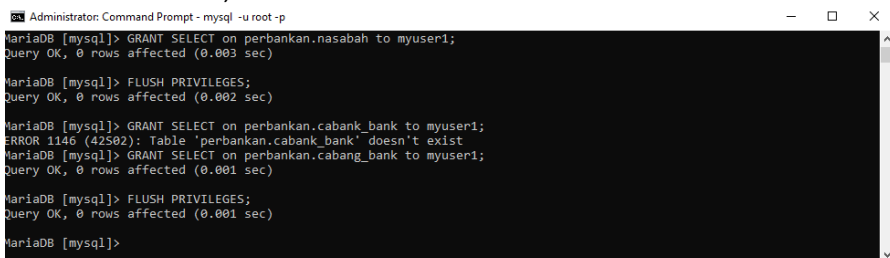
4. Pilih database mysql.



5. Masukkan user baru ke tabel user dengan sintaks sebagai berikut:
Insert into user(user,password) values('myuser','myuser');



6. Berikan hak akses kepada user dengan sintaks sebagai berikut:
GRANT SELECT on perbankan.nasabah to myuser;
FLUSH PRIVILEGES;
GRANT SELECT on perbankan.cabang_bank to myuser;
FLUSH PRIVILEGES;



7. Keluar sebagai user root dengan sintaks: exit;

```
MariaDB [mysql]> exit;
Bye
C:\xampp\mysql\bin>
```

8. Login lagi sebagai my user dengan sintaks:

Mysql -u myuser -p

```
Administrator: Command Prompt - Mysql -u myuser1 -p
C:\xampp\mysql\bin>Mysql -u myuser1 -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 32
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)]>
```

9. Ubah database yang digunakan ke database perbankan dengan sintaks use perbankan;

```
Administrator: Command Prompt - Mysql -u myuser1 -p
MariaDB [(none)]> use perbankan
Database changed
MariaDB [perbankan]>
```

10. Coba lakukan select pada tabel nasabah dengan sintaks sebagai berikut:

Select*from nasabah;

```
Database changed
MariaDB [perbankan]> SELECT*FROM nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 2 | Maryati | Jl. MT. Haryono 31 |
| 3 | Suparnan | 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 | Ali Saputra | Jl. Anggur 11 |
| 12 | Juli Ariawan | Jl. Mangga 17 |
| 13 | Ahmad Ridwan | Jl. Rambutan 21 |
| 14 | Candra Kirana | Jl. Durian 34 |
| 15 | Riski Murdiansyah | Jl. Apel 25 |
| 16 | Septian Dwi | Jl. Durenk 6 |
| 17 | Zainal Fathoni | Jl. Manggis 44 |
| 18 | Anggit Pratiwi | Jl. Matoa 13 |
| 19 | Arsida Ulfa | Jl. Sawo 43 |
| 20 | Fitri Dearlia | Jl. Apel 43 |
+-----+-----+-----+
```

Selanjutnya coba lakukan insert pada tabel nasabah dengan sintaks sebagai berikut:

Insert into nasabah values('31','Susilo','Sukoharjo');

```
MariaDB [perbankan]> INSERT into nasabah VALUES('31','Susilo','Sukoharjo');
ERROR 1142 (42000): INSERT command denied to user 'myuser1'@'localhost' for table 'nasabah'
MariaDB [perbankan]>
```

11. Kemudian exit dan login lagi sebagai root.

```
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 36
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. Kemudian hilangkan satu privilege untuk user myuser dengan sintaks berikut ini:

REVOKE SELECT on perbankan.nasabah from myuser;

FLUSH PRIVILEGE;

```
MariaDB [(none)]> REVOKE SELECT on perbankan.nasabah from myuser1;
Query OK, 0 rows affected (0.005 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. Kemudian exit dan login lagi sebagai myuser.

```
c:\xampp\mysql\bin>mysql -u myuser1 -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 39
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
MariaDB [perbankan]> _
```

15. Selanjutnya silahkan dicoba untuk menggunakan perintah SELECT pada tabel nasabah.

```
MariaDB [perbankan]> SELECT*FROM nasabah;
ERROR 1142 (42000): SELECT command denied to user 'myuser1'@'localhost' for table 'nasabah'
MariaDB [perbankan]>
```

Tugas

1. Buat user baru dengan nama masing-masing.

```
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 40
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 'GalihPrayoga'@'localhost' identified by 'GalihPrayoga';
Query OK, 0 rows affected (0.002 sec)

MariaDB [mysql]> _
```

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

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

```
MariaDB [mysql]> GRANT INSERT on perbankan.nasabah to GalihPrayoga@localhost;
Query OK, 0 rows affected (0.002 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;
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 'PRIVILEGES' at line 1
MariaDB [mysql]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [mysql]> GRANT UPDATE on perbankan.nasabah to GalihPrayoga@localhost;
Query OK, 0 rows affected (0.001 sec)

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

MariaDB [mysql]> GRANT DELETE on perbankan.nasabah to GalihPrayoga@localhost;
Query OK, 0 rows affected (0.001 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 GalihPrayoga@localhost;
Query OK, 0 rows affected (0.001 sec)

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

MariaDB [mysql]> exit;
Bye
```

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

- a. Lakukan perintah SELECT pada tabel nasabah.
- b. Lakukan perintah INSERT pada tabel nasabah.
- c. Lakukan perintah INSERT pada tabel cabang_bank.

```

Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 53
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 'GalihPrayoga'@'localhost' for table 'nasabah'
MariaDB [perbankan]> INSERT into nasabah VALUES("32","Suhartomo","Wonogiri");
Query OK, 1 row affected (0.009 sec)

MariaDB [perbankan]> INSERT into cabang_bank VALUES("BRUIJ","Bank Cabang Irian Jaya","Irian Jaya");
ERROR 1142 (42000): INSERT command denied to user 'GalihPrayoga'@'localhost' for table 'cabang_bank'
MariaDB [perbankan]>

```

4. Analisa hasil percobaan tersebut.
 - a. SELECT pada tabel nasabah error karena pada tabel nasabah tidak membuat grant dengan hak akses select.
 - b. INSERT pada tabel nasabah tidak error karena pada tabel nasabah telah membuat grant dengan hak akses insert.
 - c. INSERT pada tabel cabang_bank tidak error karena pada cabang_bank telah membuat grant dengan hak akses insert.