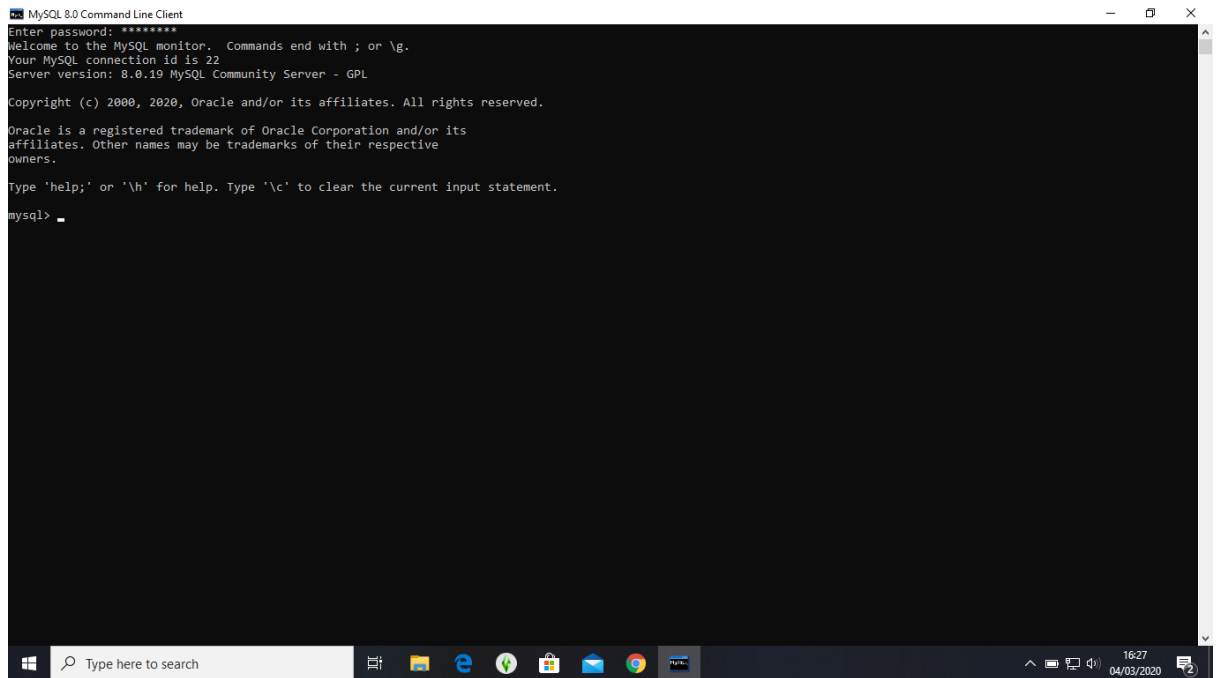


Nama : Hermaya Al Chaerunnisa
NIM : A11.2018.11012
Kelompok : A11.4413
Mata Kuliah : Basis Data

TUGAS BASIS DATA MEMBUAT DATABASE MAHASISWA

1. Buka MYSQL Command Line



```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 22
Server version: 8.0.19 MySQL Community Server - GPL

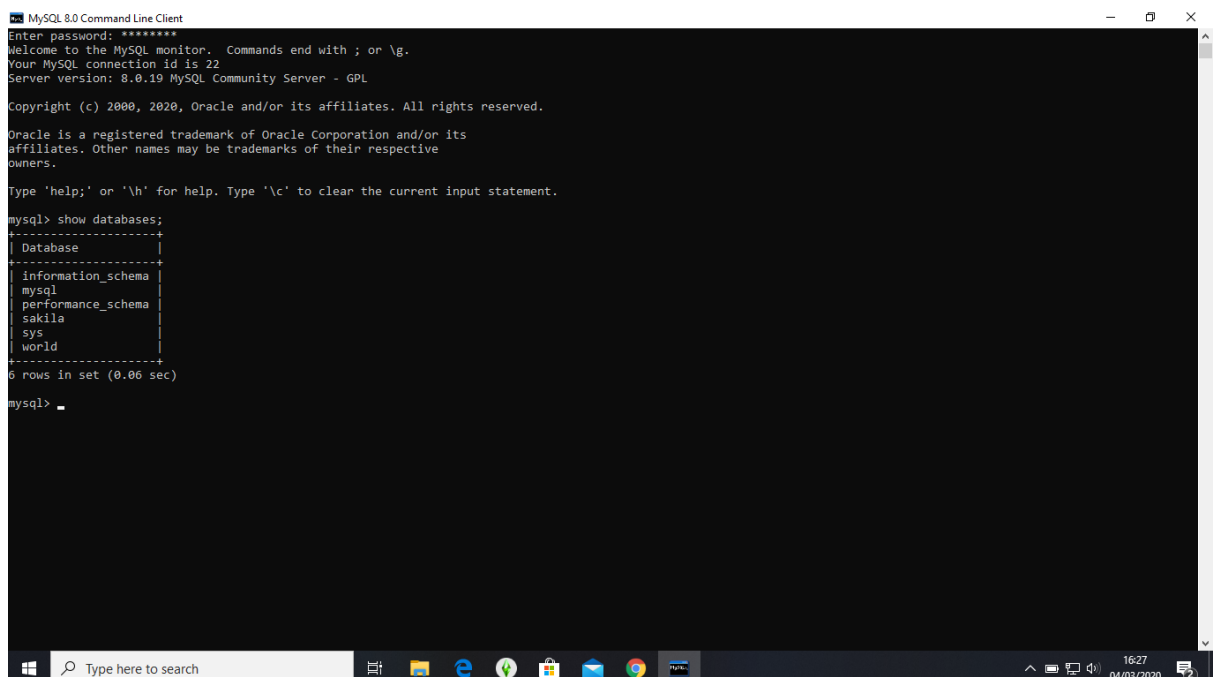
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affiliates. Other names may be trademarks of their respective
owners.

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

mysql>
```

2. Ketik **show databases;** untuk memeriksa database apa saja yang telah ada di computer kita.



```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 22
Server version: 8.0.19 MySQL Community Server - GPL

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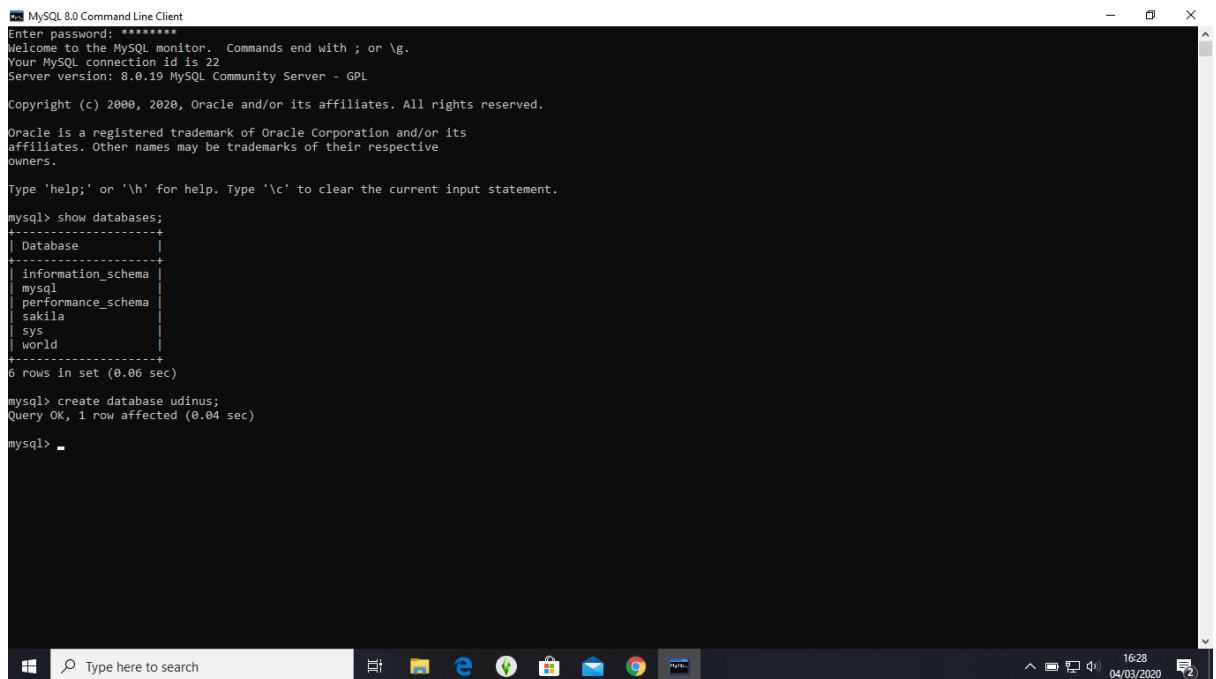
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
6 rows in set (0.06 sec)

mysql>
```

- Untuk membuat database baru, ketik **create database *nama_database***; . Kali ini saya akan membuat database bernama udinus sehingga saya ketikkan **create database udinus**;



```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 22
Server version: 8.0.19 MySQL Community Server - GPL

Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.

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owners.

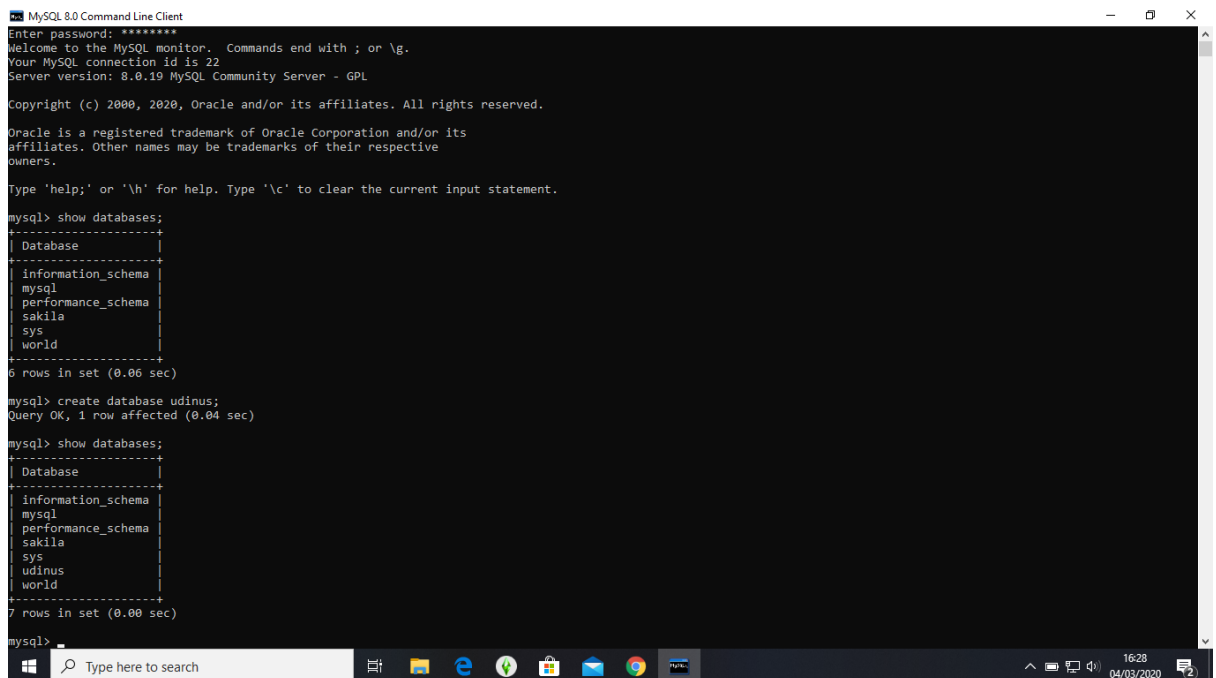
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
6 rows in set (0.06 sec)

mysql> create database udinus;
Query OK, 1 row affected (0.04 sec)

mysql>
```

- Untuk memeriksa database yang telah kita buat maka kita ketikkan **show databases**;



```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 22
Server version: 8.0.19 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

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

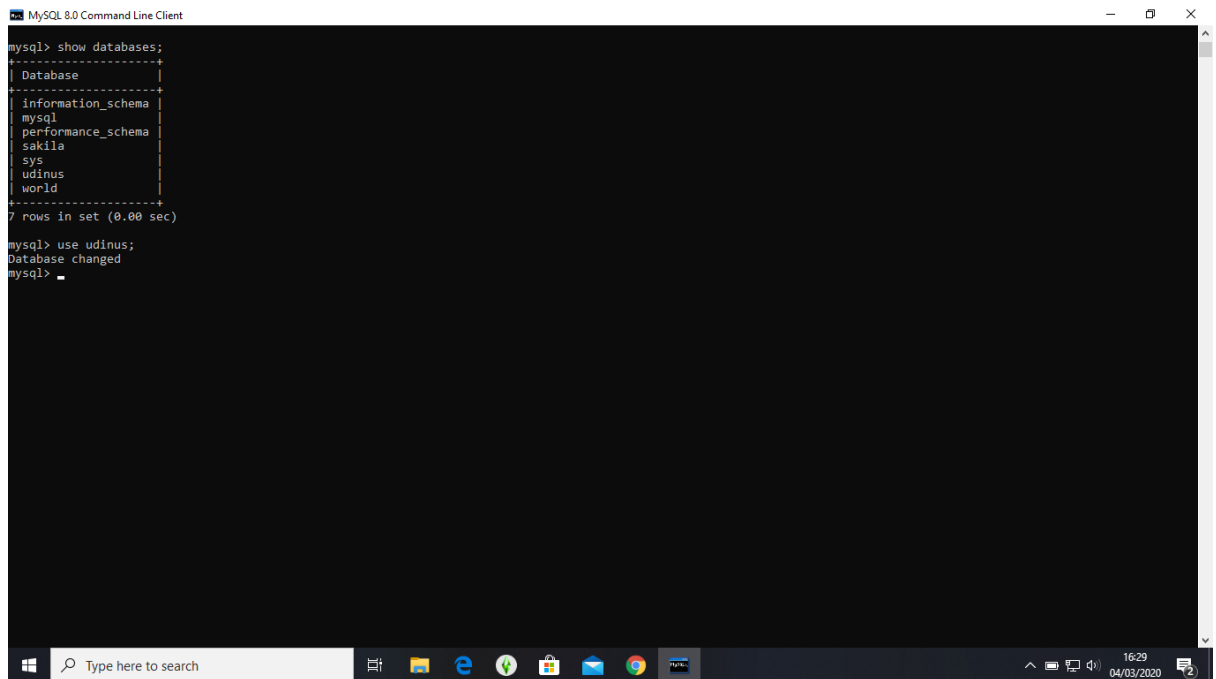
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
6 rows in set (0.06 sec)

mysql> create database udinus;
Query OK, 1 row affected (0.04 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| udinus |
| world |
+-----+
7 rows in set (0.00 sec)

mysql>
```

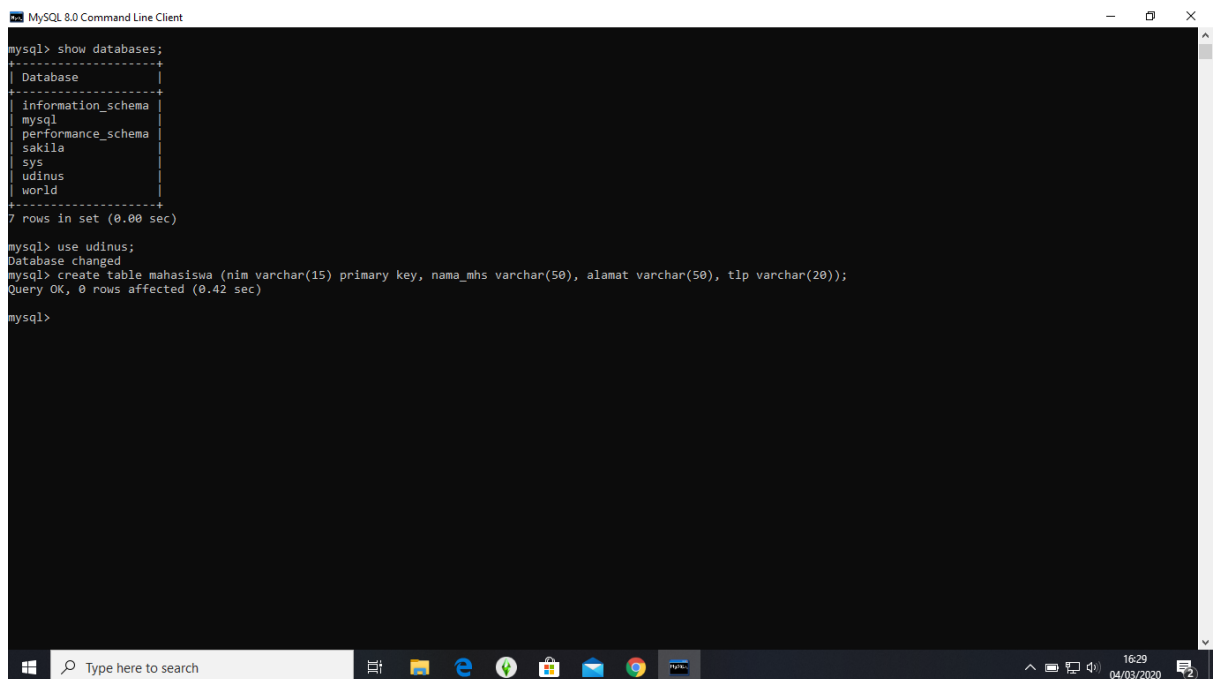
5. Karena kita akan menggunakan database udinus maka selanjutnya kita ketikkan **use udinus;**



```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| udinus |
| world |
+-----+
7 rows in set (0.00 sec)

mysql> use udinus;
Database changed
mysql>
```

6. Untuk menambahkan table kita menggunakan format **create table *nama_table* (nama_fields tipe_data (ukuran));** Disini saya akan menambahkan table mahasiswa **create table mahasiswa (nim varchar(15) primary key, nama_mhs varchar(50), alamat varchar(50), tlp varchar(20));**.



```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| udinus |
| world |
+-----+
7 rows in set (0.00 sec)

mysql> use udinus;
Database changed
mysql> create table mahasiswa (nim varchar(15) primary key, nama_mhs varchar(50), alamat varchar(50), tlp varchar(20));
Query OK, 0 rows affected (0.42 sec)

mysql>
```

7. Untuk melihat rincian table yang telah kita buat, ketikkan **desc mahasiswa**;

```
MySQL 8.0 Command Line Client

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| udinus |
| world |
+-----+
7 rows in set (0.00 sec)

mysql> use udinus;
Database changed
mysql> create table mahasiswa (nim varchar(15) primary key, nama_mhs varchar(50), alamat varchar(50), tlp varchar(20));
Query OK, 0 rows affected (0.42 sec)

mysql> desc mahasiswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nim | varchar(15) | NO | PRI | NULL | |
| nama_mhs | varchar(50) | YES | | NULL | |
| alamat | varchar(50) | YES | | NULL | |
| tlp | varchar(20) | YES | | NULL | |
+-----+
4 rows in set (0.01 sec)

mysql>
```

8. Untuk memasukkan records dapat mengetik dengan format **insert into *nama_table* (*nama_fields*) values (*isi_records*)**. Contohnya disini saya akan mengetikkan **insert into mahasiswa (nim, nama_mhs, alamat, tlp) values ("A11.2018.11012", "Hermaya Al Chaerunnisa", "Semarang Tengah", "082223565693")**;

```
MySQL 8.0 Command Line Client

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| udinus |
| world |
+-----+
7 rows in set (0.00 sec)

mysql> use udinus;
Database changed
mysql> create table mahasiswa (nim varchar(15) primary key, nama_mhs varchar(50), alamat varchar(50), tlp varchar(20));
Query OK, 0 rows affected (0.42 sec)

mysql> desc mahasiswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nim | varchar(15) | NO | PRI | NULL | |
| nama_mhs | varchar(50) | YES | | NULL | |
| alamat | varchar(50) | YES | | NULL | |
| tlp | varchar(20) | YES | | NULL | |
+-----+
4 rows in set (0.01 sec)

mysql> insert into mahasiswa (nim, nama_mhs, alamat, tlp) values ("A11.2018.11012", "Hermaya Al Chaerunnisa", "Semarang Tengah", "082223565693");
Query OK, 1 row affected (0.02 sec)

mysql>
```

9. Untuk menampilkan semua records yang ada dalam table maka ketikkan **select * from mahasiswa;**

```
MySQL 8.0 Command Line Client

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| udinus |
| world |
+-----+
7 rows in set (0.00 sec)

mysql> use udinus;
Database changed

mysql> create table mahasiswa (nim varchar(15) primary key, nama_mhs varchar(50), alamat varchar(50), tlp varchar(20));
Query OK, 0 rows affected (0.42 sec)

mysql> desc mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim | varchar(15) | NO | PRI | NULL | |
| nama_mhs | varchar(50) | YES | | NULL | |
| alamat | varchar(50) | YES | | NULL | |
| tlp | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> insert into mahasiswa (nim, nama_mhs, alamat, tlp) values ("A11.2018.11012", "Hermaya Al Chaerunnisa", "Semarang Tengah", "082223565693");
Query OK, 1 row affected (0.02 sec)

mysql> select * from mahasiswa;
+-----+-----+-----+-----+
| nim | nama_mhs | alamat | tlp |
+-----+-----+-----+-----+
| A11.2018.11012 | Hermaya Al Chaerunnisa | Semarang Tengah | 082223565693 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```