5.5. PRAKTIKUM

5.5.1. Data Definition Language

```
#1
create database pendaftaran;
```

```
MariaDB [(none)]> prompt A22.2019.02733 :
PROMPT set to 'A22.2019.02733 :'
A22.2019.02733 :create database Pendaftaran;
Query OK, 1 row affected (0.035 sec)

A22.2019.02733 :show databases;
+--------------------+
| Database           |
+--------------------+
| barang_elektronik  |
| brg_elektronik     |
| information_schema |
| mysql              |
| pendaftaran        |
| performance_schema |
| rumah_sehat        |
| stock_corona       |
| test               |
| tiket_bioskop      |
+--------------------+
10 rows in set (0.084 sec)

A22.2019.02733 :use Pendaftaran;
Database changed
```

```
#2
create table data_diri (
no int(3), nama varchar(35), alamat varchar(60),
email varchar(40), no telepon varchar(15), sex char(1));
```

```
A22.2019.02733 :create table data_diri (no int(3),nama varchar(35),alamat varchar(60),email varchar(40),no_telephone var
char(15),sex char(1));
Query OK, 0 rows affected (0.222 sec)
```

```
#3
desc data diri;
```

```
A22.2019.02733 :desc data_diri;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| no           | int(3)      | YES  |     | NULL    |       |
| nama         | varchar(35) | YES  |     | NULL    |       |
| alamat       | varchar(60) | YES  |     | NULL    |       |
| email        | varchar(40) | YES  |     | NULL    |       |
| no_telephone | varchar(15) | YES  |     | NULL    |       |
| sex          | char(1)     | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
6 rows in set (0.078 sec)
```

#4
```
drop table data_diri;
```

```
A22.2019.02733 :drop table data_diri;
Query OK, 0 rows affected (0.399 sec)
```

#5
```
create table pribadi (
kd_pribadi CHAR(3) primary key,
panggilan char(4), nama varchar(35), email varchar(50),
sex char(1), UNIQUE (kd_pribadi,panggilan));|
```

```
A22.2019.02733 :create table pribadi ( kd_pribadi CHAR(3) primary key, panggilan char(4), nama varchar(35), email varcha
r(50), sex char(1), UNIQUE (kd_pribadi,panggilan));
Query OK, 0 rows affected (0.338 sec)
```

#6
```
rename table pribadi to data pribadi;
```

```
A22.2019.02733 :rename table pribadi to data_pribadi;
Query OK, 0 rows affected (0.258 sec)
```

#7
```
alter table data_pribadi add gol_darah char(1);
```
#8

```
A22.2019.02733 :alter table data_pribadi add gol_darah char(1);
Query OK, 0 rows affected (0.127 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

#8
```
desc data pribadi;
```

```
A22.2019.02733 :desc data_pribadi;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| kd_pribadi | char(3)     | NO   | PRI | NULL    |       |
| panggilan  | char(4)     | YES  |     | NULL    |       |
| nama       | varchar(35) | YES  |     | NULL    |       |
| email      | varchar(50) | YES  |     | NULL    |       |
| sex        | char(1)     | YES  |     | NULL    |       |
| gol_darah  | char(1)     | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
6 rows in set (0.048 sec)
```

```
#9
alter table data_pribadi drop gol_darah;
```

```
A22.2019.02733 :alter table data_pribadi drop gol_darah;
Query OK, 0 rows affected (0.094 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Hasil :

```
A22.2019.02733 :desc data_pribadi;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| kd_pribadi | char(3)     | NO   | PRI | NULL    |       |
| panggilan  | char(4)     | YES  |     | NULL    |       |
| nama       | varchar(35) | YES  |     | NULL    |       |
| email      | varchar(50) | YES  |     | NULL    |       |
| sex        | char(1)     | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
5 rows in set (0.041 sec)
```

5.5.2. Data Manipulation Language

- Buatlah tabel tb_tamu, dengan struktur tabel sebagai berikut:

Field	Type	Length	Keterangan
No	Int	3	Primary key
Nama	Varchar	35	
Alamat	Varchar	60	
Email	Varchar	40	
No_telp	Varchar	15	

```
A22.2019.02733 :create table tb_tamu ( no int(3)primary key, nama varchar(35), alamat varchar(60), email varchar(40), no
_telepon varchar(15));
Query OK, 0 rows affected (0.436 sec)

A22.2019.02733 :desc tb_tamu;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| no         | int(3)      | NO   | PRI | NULL    |       |
| nama       | varchar(35) | YES  |     | NULL    |       |
| alamat     | varchar(60) | YES  |     | NULL    |       |
| email      | varchar(40) | YES  |     | NULL    |       |
| no_telepon | varchar(15) | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
5 rows in set (0.042 sec)
```

```
#1
insert into tb tamu values('1','Boi trimoyo','ujung
berung','bo i77@yahoo.com','085613548789');
```

```
A22.2019.02733 :insert into tb_tamu values('1','Boi trimoyo','ujung berung','bo_i77@yahoo.com','085613548789');
Query OK, 1 row affected (0.111 sec)
```

```
#2
update tb_tamu set nama='irfan nurhudin' where nama="Boi
trimoyo";
```

```
A22.2019.02733 :update tb_tamu set nama='irfan nurhudin' where nama="Boi trimoyo";
Query OK, 1 row affected (0.178 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
#3
select * from tb_tamu;|
```

```
A22.2019.02733 :select * from tb_tamu;
+----+----------------+--------------+-----------------+--------------+
| no | nama           | alamat       | email           | no_telepon   |
+----+----------------+--------------+-----------------+--------------+
|  1 | irfan nurhudin | ujung berung | bo_i77@yahoo.com | 085613548789 |
+----+----------------+--------------+-----------------+--------------+
1 row in set (0.002 sec)
```

#4

```
insert into tb tamu
values('2','Wasmui','Jatimulyo','boy@gmail.com','084567897890');
insert into tb_tamu
values('3','Sumarno','Surodadi','man@ymail.com','082469823578');
insert into tb tamu
values('4','Sukamto','Kradenan','doi@gmail.com','083648763845');
```

```
A22.2019.02733 :insert into tb_tamu values('2','Wasmui','Jatimulyo','boy@gmail.com','084567897890'); insert into tb_tamu
values('3','Sumarno','Surodadi','man@ymail.com','082469823578'); insert into tb_tamu values('4','Sukamto','Kradenan','d
oi@gmail.com','083648763845');
Query OK, 1 row affected (0.404 sec)

Query OK, 1 row affected (0.053 sec)

Query OK, 1 row affected (0.067 sec)
```

#5

```
delete from tb tamu where no='4';|
```

```
A22.2019.02733 :delete from tb_tamu where no='4';
Query OK, 1 row affected (0.165 sec)
```

#6

```
select no, nama, alamat from tb_tamu;|
```

```
A22.2019.02733 :select no, nama, alamat from tb_tamu;
+----+---------------+--------------+
| no | nama          | alamat       |
+----+---------------+--------------+
|  1 | irfan nurhudin | ujung berung |
|  2 | Wasmui        | Jatimulyo    |
|  3 | Sumarno       | Surodadi     |
+----+---------------+--------------+
3 rows in set (0.001 sec)
```

#7

```
select * from tb tamu where alamat ='Kradenan';
```

```
A22.2019.02733 :select * from tb_tamu where alamat ='Kradenan';
Empty set (0.098 sec)
```

#8

```
select * from tb_tamu where nama like '%su%';
```

```
A22.2019.02733 :select * from tb_tamu where nama like '%su%';
+----+---------+----------+---------------+--------------+
| no | nama    | alamat   | email         | no_telepon   |
+----+---------+----------+---------------+--------------+
|  3 | Sumarno | Surodadi | man@ymail.com | 082469823578 |
+----+---------+----------+---------------+--------------+
1 row in set (0.027 sec)
```

```
#9
select * from tb_tamu order by nama;
```

```
A22.2019.02733 :select * from tb_tamu order by nama;
+----+---------------+--------------+------------------+--------------+
| no | nama          | alamat       | email            | no_telepon   |
+----+---------------+--------------+------------------+--------------+
|  1 | irfan nurhudin| ujung berung | bo_i77@yahoo.com | 085613548789 |
|  3 | Sumarno       | Surodadi     | man@ymail.com    | 082469823578 |
|  2 | Wasmui        | Jatimulyo    | boy@gmail.com    | 084567897890 |
+----+---------------+--------------+------------------+--------------+
3 rows in set (0.000 sec)
```

5.5.3. Data Control Language

```
CREATE DATABASE universitas;

USE universitas;

CREATE TABLE mahasiswa rmik ( nim CHAR(9), nama CHAR(50), umur
INT, tempat_lahir CHAR(50), IPK DECIMAL (3,2) );

INSERT INTO mahasiswa rmik VALUES ('089045001', 'Andi Suryo', 23,
'Jakarta', 2.7);

CREATE TABLE mahasiswa ekonomi ( nim CHAR(9), nama CHAR(50), umur
INT, tempat lahir CHAR(50), IPK DECIMAL (3,2) );

INSERT INTO mahasiswa ekonomi VALUES ('089023013', 'Alex
Supriyanto', 23, 'Surabaya', 2.9);

CREATE USER 'udinus' IDENTIFIED BY '123';

flush privileges;

\q

mysql -u udinus -p

show databases;

\q

grant all privileges on universitas.* to udinus@localhost;

flush privileges;

\q

mysql -u udinus -p

show databases;
```

```
A22.2019.02733 :CREATE DATABASE universitas;
Query OK, 1 row affected (0.114 sec)

A22.2019.02733 :CREATE DATABASE universitas;
ERROR 1007 (HY000): Can't create database 'universitas'; database exists
A22.2019.02733 :USE universitas;
Database changed
A22.2019.02733 :CREATE TABLE mahasiswa_rmik ( nim CHAR(9), nama CHAR(50), umur INT, tempat_lahir CHAR(50), IPK DECIMAL (
3,2) );
Query OK, 0 rows affected (0.348 sec)

A22.2019.02733 :INSERT INTO mahasiswa_rmik VALUES ('089045001', 'Andi Suryo', 23, 'Jakarta', 2.7);
Query OK, 1 row affected (0.037 sec)

A22.2019.02733 :CREATE TABLE mahasiswa_ekonomi ( nim CHAR(9), nama CHAR(50), umur INT, tempat_lahir CHAR(50), IPK DECIMA
L (3,2) );
Query OK, 0 rows affected (0.260 sec)

A22.2019.02733 :INSERT INTO mahasiswa_ekonomi VALUES ('089023013', 'Alex Supriyanto', 23, 'Surabaya', 2.9);
Query OK, 1 row affected (0.115 sec)

A22.2019.02733 :
```

Command Prompt - mysql -u udinus -p

```
A22.2019.02733 :CREATE USER 'udinus' IDENTIFIED BY '123';
Query OK, 0 rows affected (0.358 sec)

A22.2019.02733 :flush privileges;
Query OK, 0 rows affected (0.103 sec)

A22.2019.02733 :\q
Bye

C:\Program Files\MariaDB 10.4\bin>mysql -u udinus -p
Enter password:
ERROR 1045 (28000): Access denied for user 'udinus'@'localhost' (using password: NO)

C:\Program Files\MariaDB 10.4\bin>mysql -u udinus -p
Enter password: ***
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 10
Server version: 10.4.8-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)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| test               |
+--------------------+
```

```
Administrator: Command Prompt

Microsoft Windows [Version 10.0.17134.1365]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>grant all privileges on universitas.* to udinus@localhost;
'grant' is not recognized as an internal or external command,
operable program or batch file.

C:\WINDOWS\system32>cd\

C:\>C:\Program Files\MariaDB 10.4\bin
'C:\Program' is not recognized as an internal or external command,
operable program or batch file.

C:\>cd C:\Program Files\MariaDB 10.4\bin

C:\Program Files\MariaDB 10.4\bin>C:\Program Files\MariaDB 10.4\bin
'C:\Program' is not recognized as an internal or external command,
operable program or batch file.

C:\Program Files\MariaDB 10.4\bin>grant all privileges on universitas.* to udinus@localhost;
'grant' is not recognized as an internal or external command,
operable program or batch file.

C:\Program Files\MariaDB 10.4\bin>
```

```
MariaDB [universitas]> drop user udinus;
Query OK, 0 rows affected (0.113 sec)

MariaDB [universitas]> CREATE USER 'udinus'@'localhost' IDENTIFIED BY '123';
Query OK, 0 rows affected (0.118 sec)

MariaDB [universitas]> grant all on universitas.* to udinus@localhost;
Query OK, 0 rows affected (0.110 sec)

MariaDB [universitas]> flush privileges;
Query OK, 0 rows affected (0.001 sec)

MariaDB [universitas]> \1
ERROR: Unknown command '\1'.
    -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
on for the right syntax to use near '\1' at line 1
MariaDB [universitas]> \q
Bye

C:\Program Files\MariaDB 10.4\bin>mysql -u udinus -p
Enter password: ***
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 23
Server version: 10.4.8-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.
```

```
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)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| test               |
| universitas        |
+--------------------+
3 rows in set (0.002 sec)

MariaDB [(none)]> use universitas;
Database changed
MariaDB [universitas]> show tables;
+-----------------------+
| Tables_in_universitas |
+-----------------------+
| mahasiswa_ekonomi     |
| mahasiswa_rmik        |
+-----------------------+
2 rows in set (0.001 sec)

MariaDB [universitas]>
```

Type here to search

ENG
INTL   14:46
        08/04/2020