QUERY DDL, DML, DCL, TCL

Disusun Oleh :

(DDL) 5200411417 - Rusli Pramono

5200411416 - Muhammad Ilham Triwibowo

(DML) 5200411409 - Pramudea Yohano Firmansyah

5200411332 - Dwi Muhammad Faza

PROGRAM STUDI METODOLOGI DESAIN PERANGKAT LUNAK PRAKTIK

FAKULTAS SAINS DAN TEKNOLOGI

UNIVERSITAS TEKNOLOGI YOGYAKARTA

YOGYAKARTA

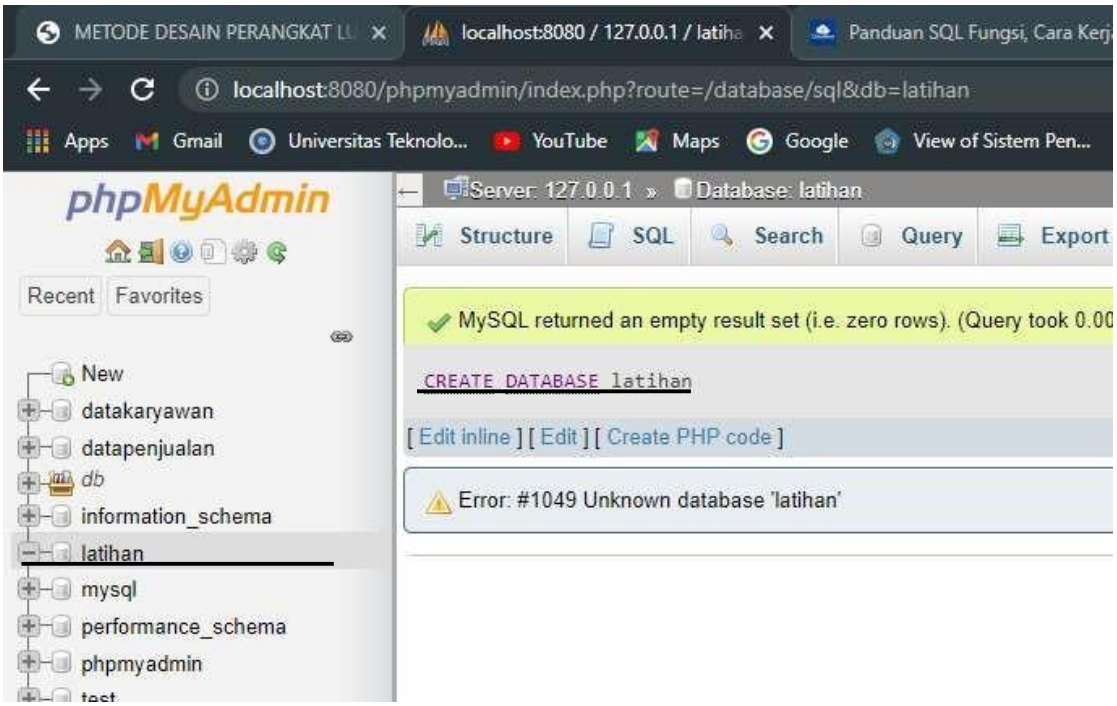
2021

1 DATA DEFINITION LANGUAGE / DDL

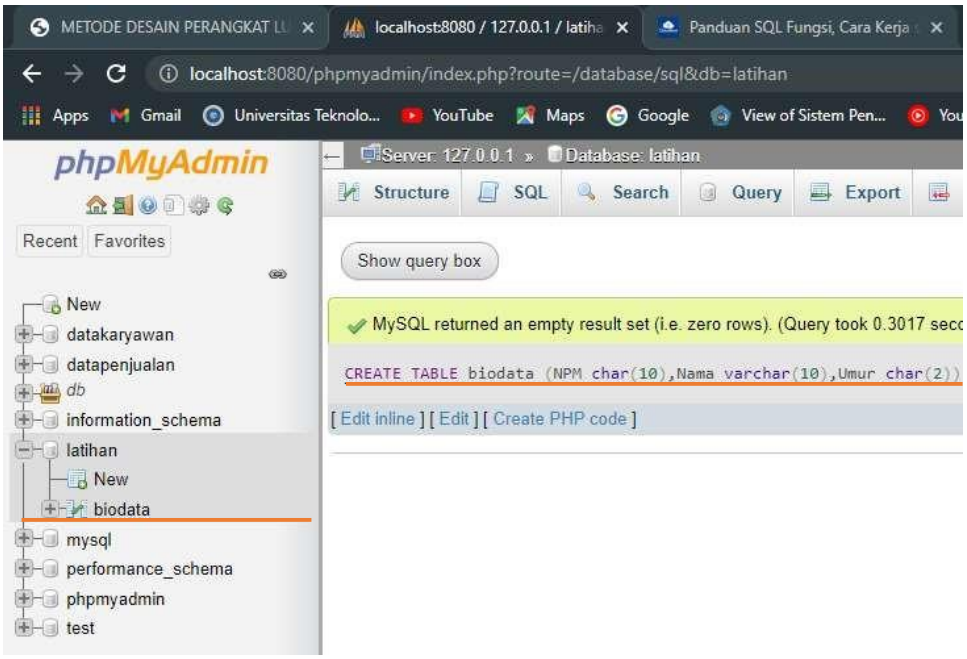
Nama : Rusli Pramono

NPM : 5200411417

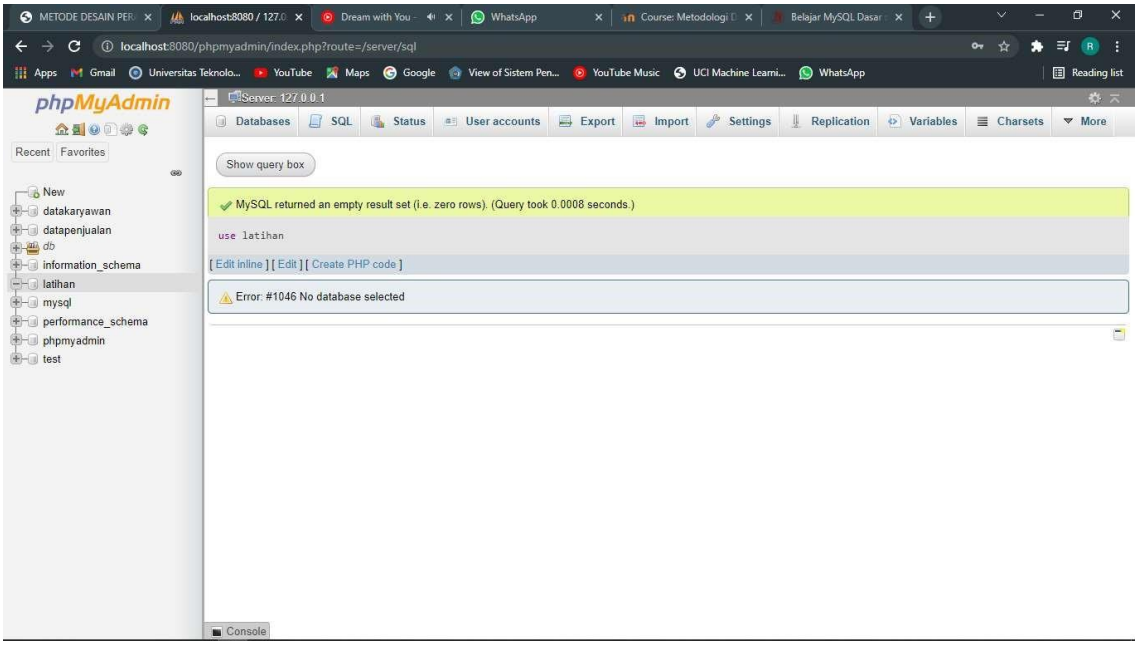
1.1 CREATE DATABSE



1.2 CREATE TABLE



1.3 USE



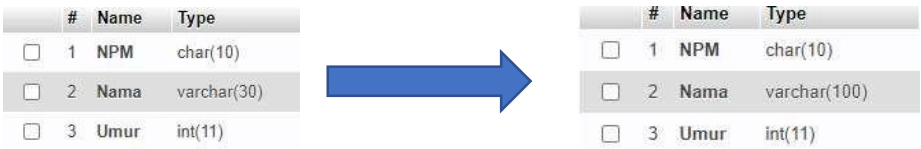
1.4 ALTER(Menambah Kolom)

```
ALTER TABLE biodata add Alanat varchar(100)
```

1.5 ALTER DROP(Meghapus kolom)

```
ALTER TABLE biodata drop Alanat
```

Mengubah Kolom

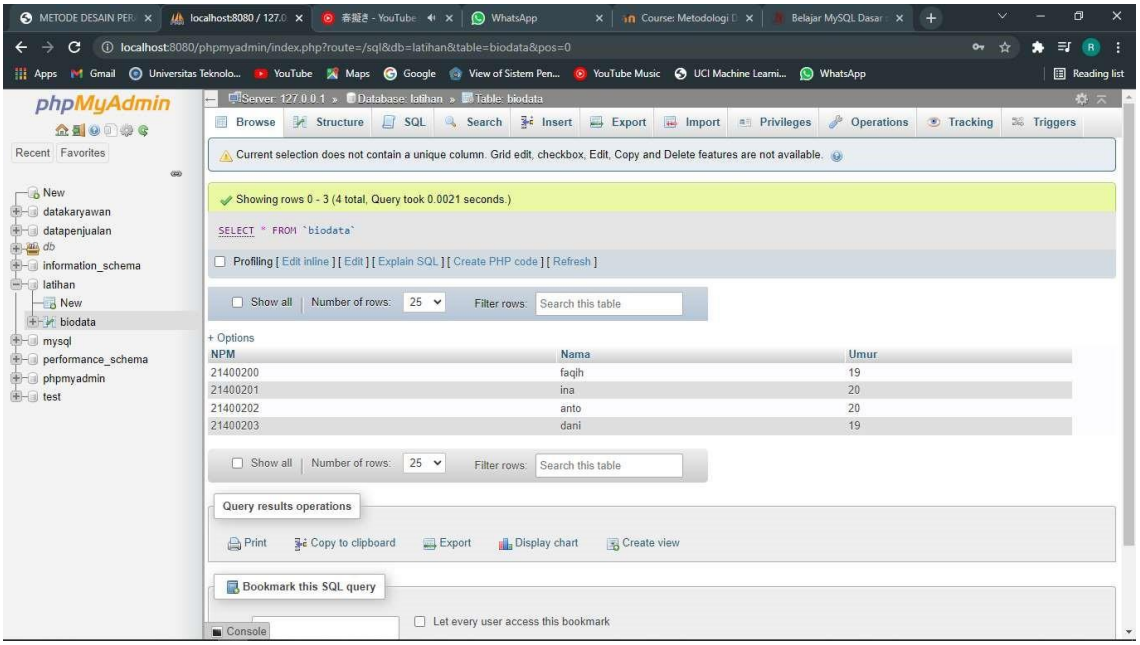


#	Name	Type
1	NPM	char(10)
2	Nama	varchar(30)
3	Umur	int(11)

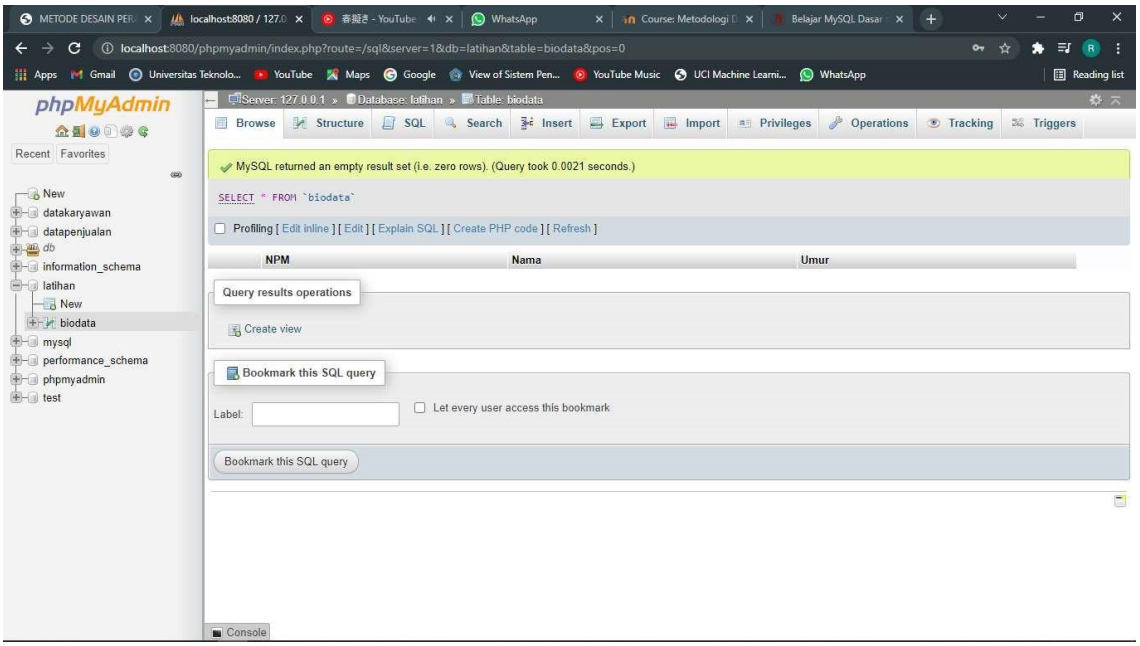
#	Name	Type
1	NPM	char(10)
2	Nama	varchar(100)
3	Umur	int(11)

```
ALTER TABLE biodata MODIFY COLUMN Nama varchar(100)
```

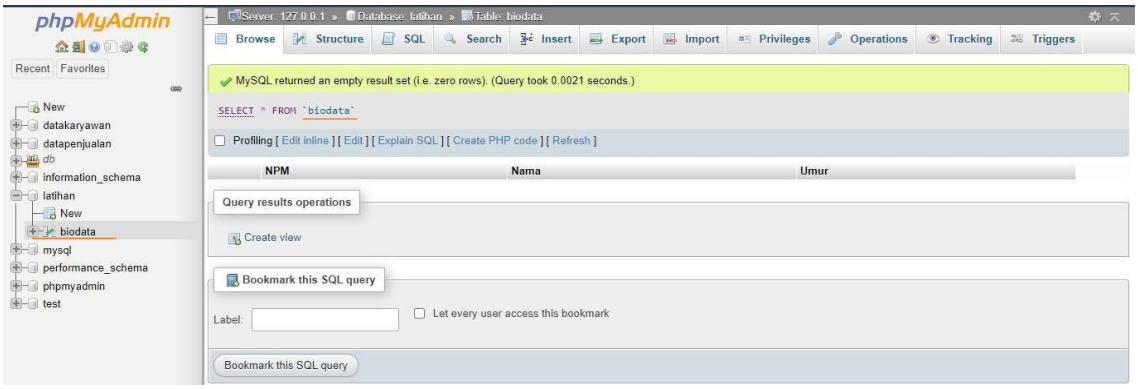
1.6 TRUNCATE



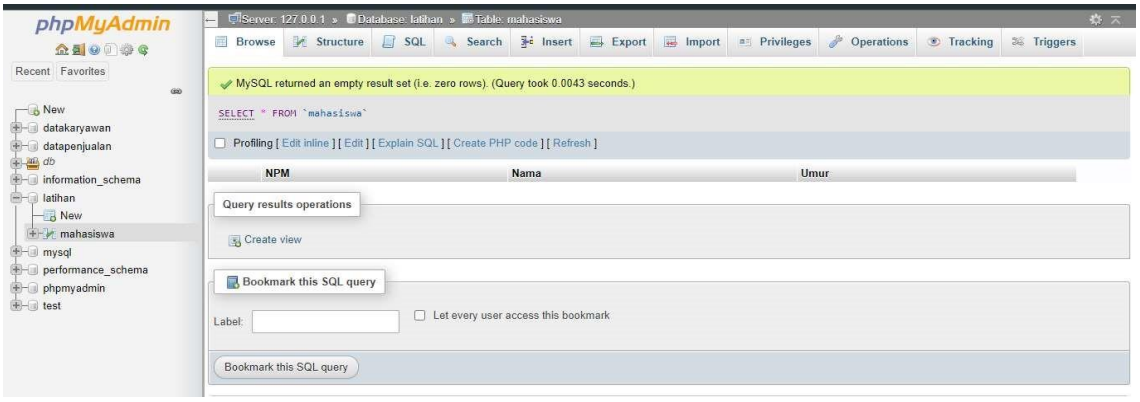

```
TRUNCATE TABLE biodata
```



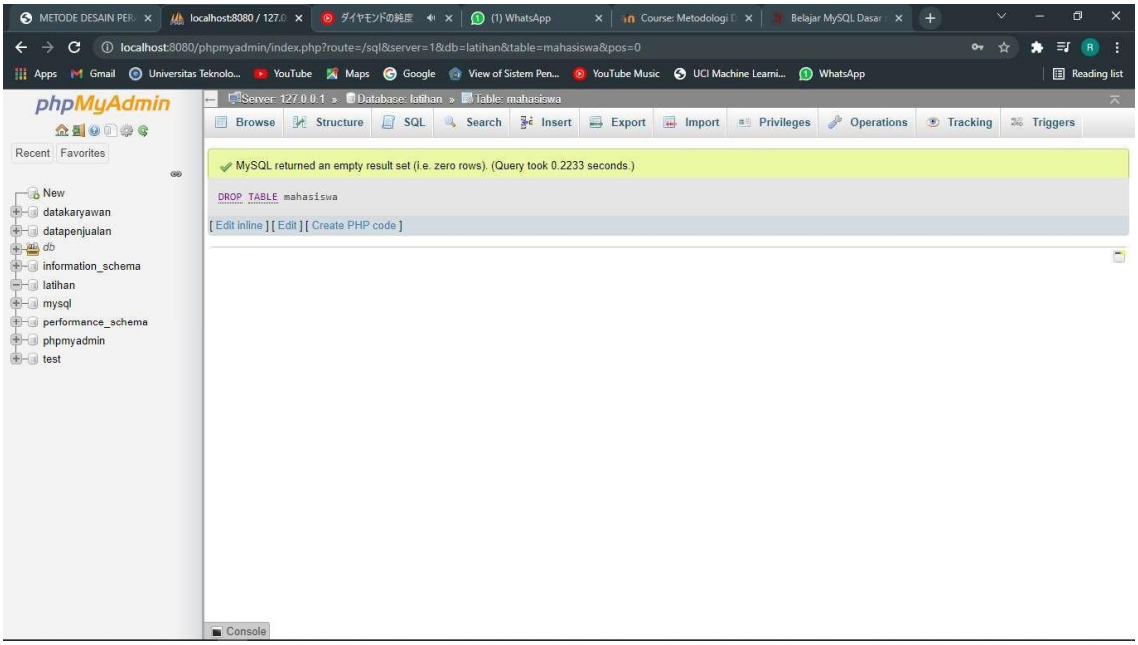
1.7 RENAME



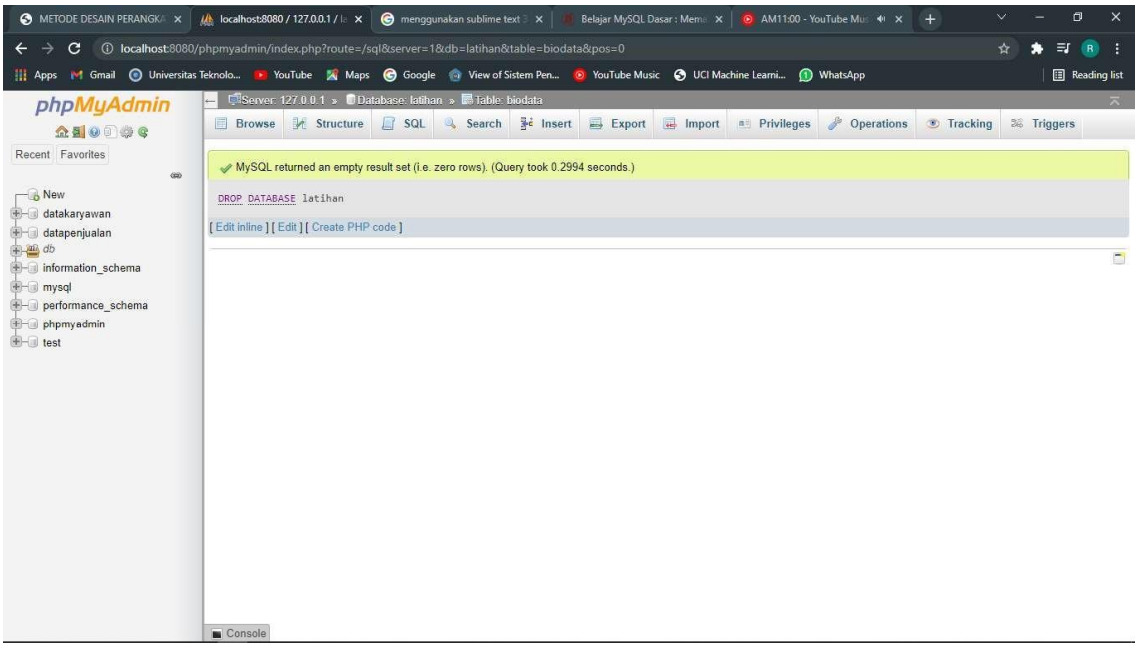

```
RENAME TABLE biodata TO mahasiswa
```



1.8 DROP TABLE



1.9 DROP DATABSE



2 DATA MANIPULATION LANGUAGE / DML

Nama : Pramudea Yohano Firmansyah

NPM : 5200411409

kode_pegawai	nama_pegawai	username	password
KP01	Sujatmiko	jtmk123	123jtmk
KP02	Sukemi	sukemi123	123sukemi

2.1 SELECT

```
SELECT * FROM `tb_pegawai` WHERE kode_pegawai = "KP01"
```

kode_pegawai	nama_pegawai	username	password
KP01	Sujatmiko	jtmk123	123jtmk

2.2 INSERT

```
INSERT INTO tb_pegawai (kode_pegawai, nama_pegawai, username, password) VALUES ("KP03", "Rayjin", "rayjin123", "123rayjin")
```

kode_pegawai	nama_pegawai	username	password
KP01	Sujatmiko	jtmk123	123jtmk
KP02	Sukemi	sukemi123	123sukemi
KP03	Rayjin	rayjin123	123rayjin

2.3 UPDATE

```
UPDATE tb_pegawai SET username = 'rayjinyy' WHERE kode_pegawai = 'KP03'
```

KP03	Rayjin	rayjinyy	123rayjin

2.4 DELETE

```
DELETE FROM tb_pegawai WHERE kode_pegawai = 'KP03'
```

kode_pegawai	nama_pegawai	username	password
KP01	Sujatmiko	jtmk123	123jtmk
KP02	Sukemi	sukemi123	123sukemi

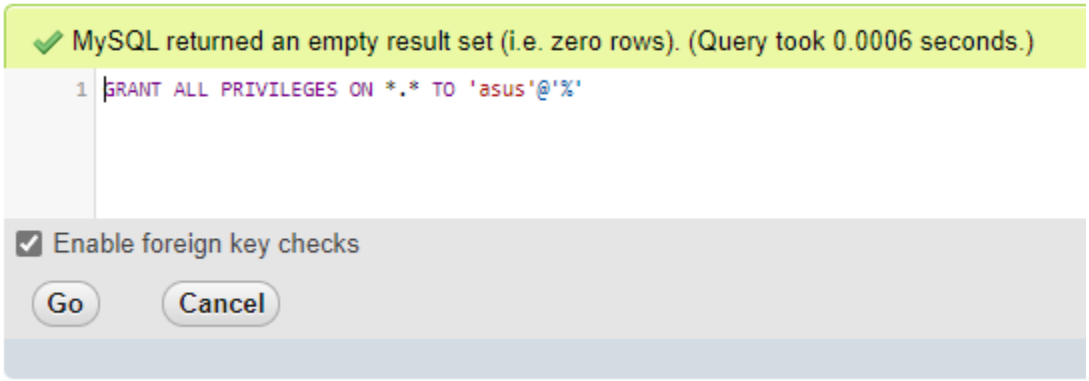
3 DATA CONTROL LANGUAGE

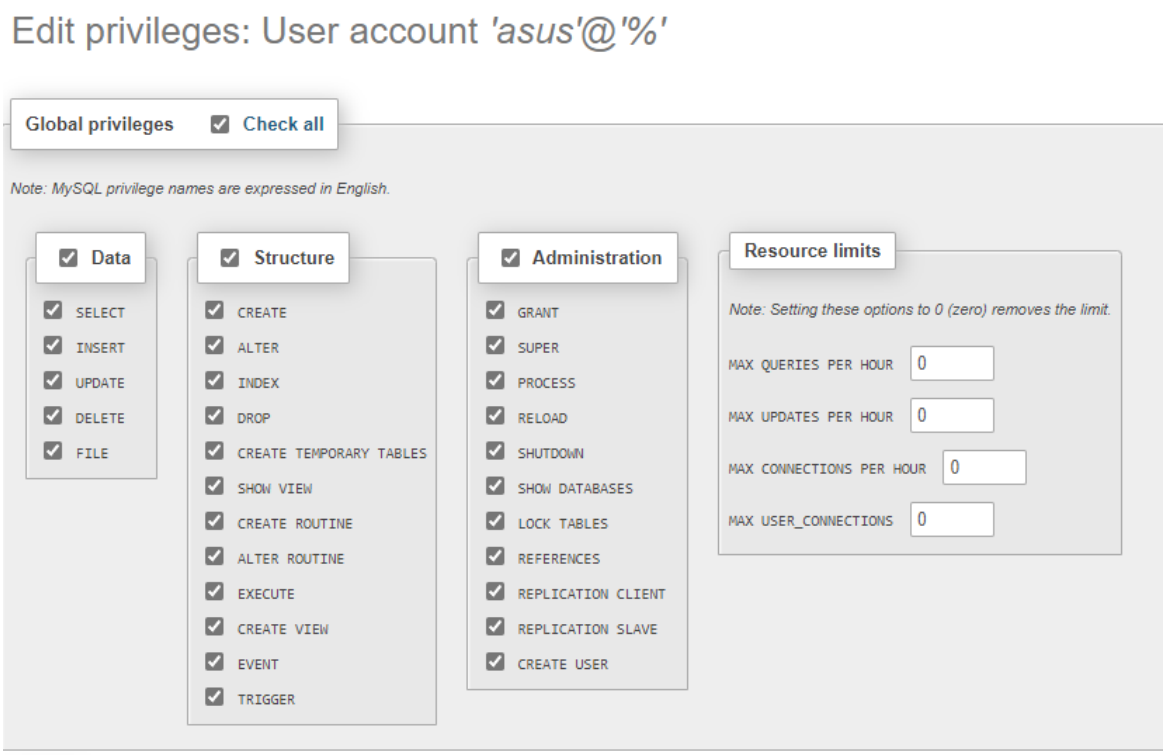
Nama : Muhammad Ilham Triwibowo

NPM : 5200411416

Commit, Rollback dan Save Point merupakan fungsi yang digunakan untuk melakukan restore data ke kondisi awal sebelum dilakukan perubahan data. Berikut adalah basic demonstrasi dari Commit, Rollback dan Save Point di SQL:

3.1 GRANT

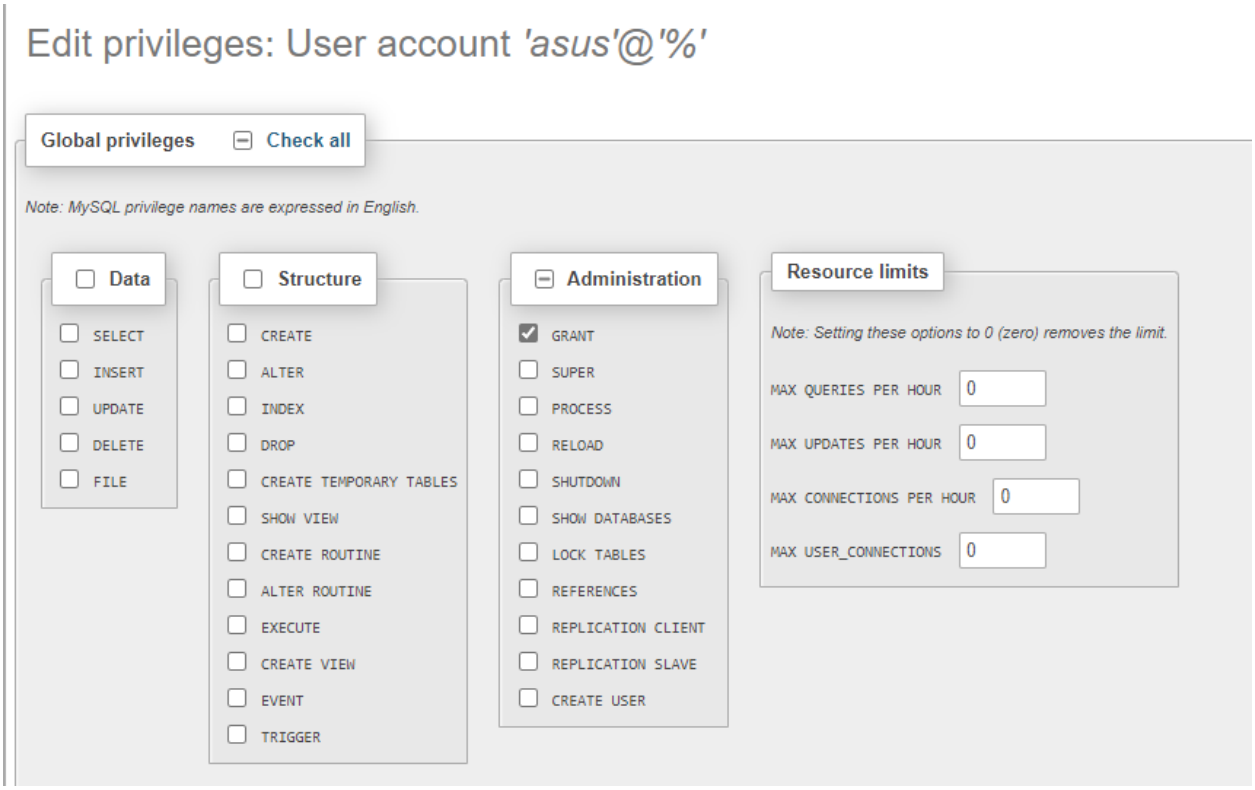




GRANT ALL PREVILAGES ON *.* TO 'asus'@'%' ;

Perintah Grant digunakan untuk memberikan hak akses khusus kepada user untuk melakukan aksi tertentu pada object tertentu di database.

3.2 REVOKE



REVOKE ALL PREVILAGES ON *.* FROM 'asus'@'%';

Perintah Revoke digunakan untuk menarik kembali / mencabut / membatalkan hak akses khusus yang sebelumnya telah diberikan melalui perintah *Grant*.

4 TRANSACTION CONTROL LANGUAGE

Nama : Dwi Muhammad Faza

NPM : 5200411332

4.1 COMMIT

```
INSERT INTO mahasiswa
VALUES
(21400200,"faqih","bandung"),
(21400201,"ina","jakarta"),
(21400202,"anto","semarang"),
(21400203,"dani","padang");
```

Selanjutnya kita cek data yang telah diinputkan

```
> SELECT * FROM mahasiswa;
+----------+-------+----------+
| nim      | nama  | alamat   |
+----------+-------+----------+
| 21400200 | faqih | bandung  |
| 21400201 | ina   | jakarta  |
| 21400202 | anto  | semarang |
| 21400203 | dani  | padang   |
+----------+-------+----------+
4 rows in set (0.00 sec)
```

```
START TRANSACTION;
```

```
> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)

> INSERT INTO mahasiswa VALUES (21400210,"Jaka","Kalimantan");
Query OK, 1 row affected (0.00 sec)

> COMMIT;
Query OK, 0 rows affected (0.07 sec)

> SELECT * FROM mahasiswa;
+----------+-------+------------+
| nim      | nama  | alamat     |
+----------+-------+------------+
| 21400200 | faqih | bandung    |
| 21400201 | ina   | jakarta    |
| 21400202 | anto  | semarang   |
| 21400203 | dani  | padang     |
| 21400210 | Jaka  | Kalimantan |
+----------+-------+------------+
5 rows in set (0.00 sec)

```

4.2 PERINTAH ROLLBACK

```
> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)

> SELECT * FROM mahasiswa;
+----------+-------+------------+
| nim      | nama  | alamat     |
+----------+-------+------------+
| 21400200 | faqih | bandung    |
| 21400201 | ina   | jakarta    |
| 21400202 | anto  | semarang   |
| 21400203 | dani  | padang     |
| 21400210 | Jaka  | Kalimantan |
+----------+-------+------------+
5 rows in set (0.00 sec)

> INSERT INTO mahasiswa VALUES (21400211,"Fitri","Surabaya");
Query OK, 1 row affected (0.00 sec)

```

```
> SELECT * FROM mahasiswa;
+----------+-------+------------+
| nim      | nama  | alamat     |
+----------+-------+------------+
| 21400200 | faqih | bandung    |
| 21400201 | ina   | jakarta    |
| 21400202 | anto  | semarang   |
| 21400203 | dani  | padang     |
| 21400210 | Jaka  | Kalimantan |
| 21400211 | Fitri | Surabaya   |
+----------+-------+------------+
6 rows in set (0.00 sec)

> ROLLBACK;
Query OK, 0 rows affected (0.11 sec)

> SELECT * FROM mahasiswa;
+----------+-------+------------+
| nim      | nama  | alamat     |
+----------+-------+------------+
| 21400200 | faqih | bandung    |
| 21400201 | ina   | jakarta    |
| 21400202 | anto  | semarang   |
| 21400203 | dani  | padang     |
| 21400210 | Jaka  | Kalimantan |
+----------+-------+------------+
5 rows in set (0.00 sec)
```