

METODOLOGI DESAIN PERANGKAT LUNAK PRAKTIK
STRUCTURED QUERY LANGUAGE



Disusun oleh :

5200411207 Firnawa Adithama

5200411225 Fina Nuraini

5200411241 Alfianda Suci Wulansari

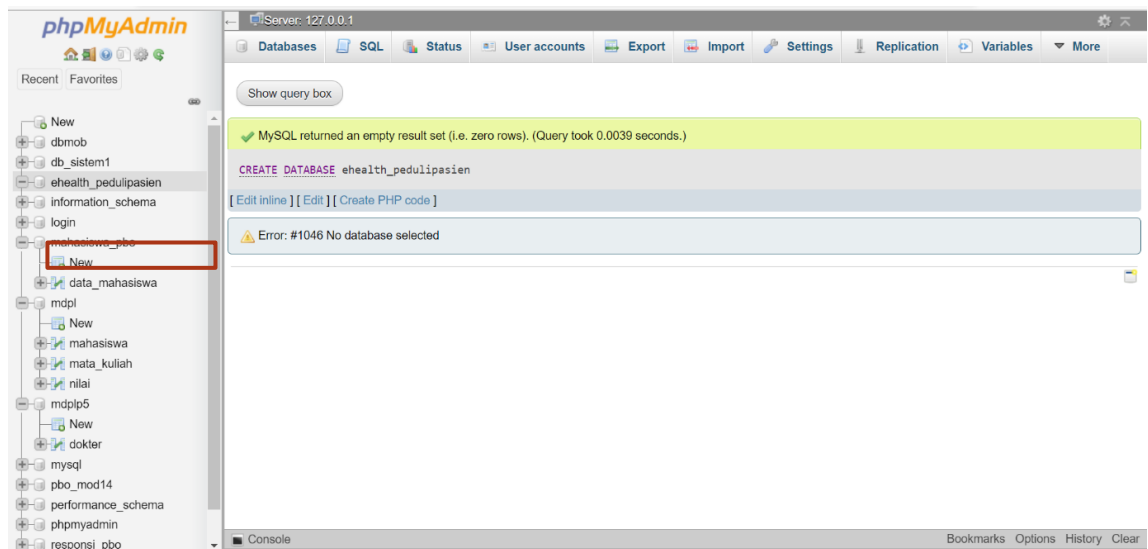
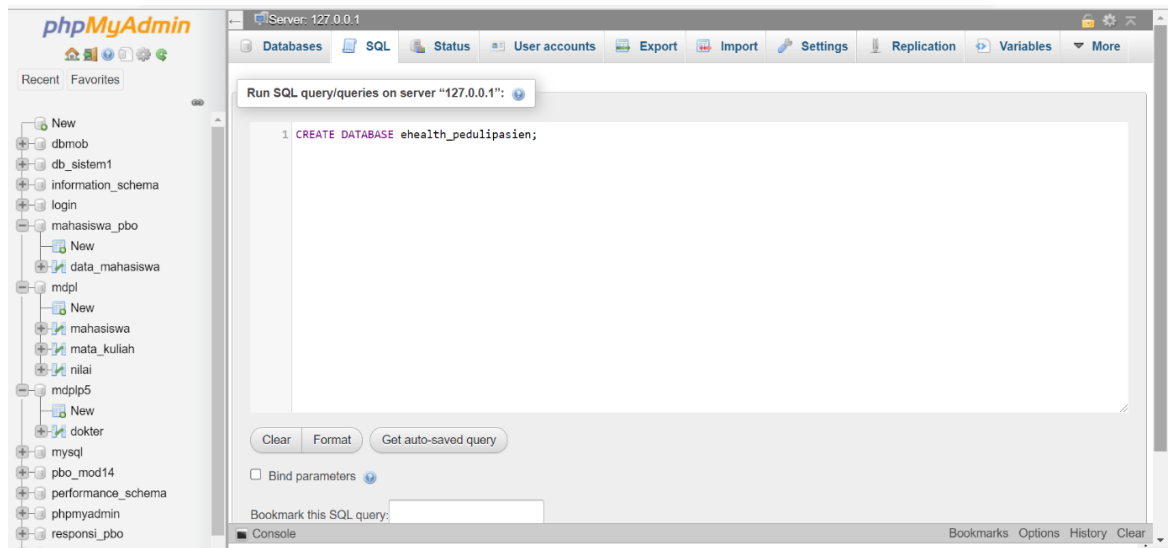
5200411248 Thio Prasetyo

PROGRAM STUDI INFORMATIKA
FAKULTAS TEKNOLOGI INFORMASI & ELEKTRO
UNIVERSITAS TEKNOLOGI YOGYAKARTA

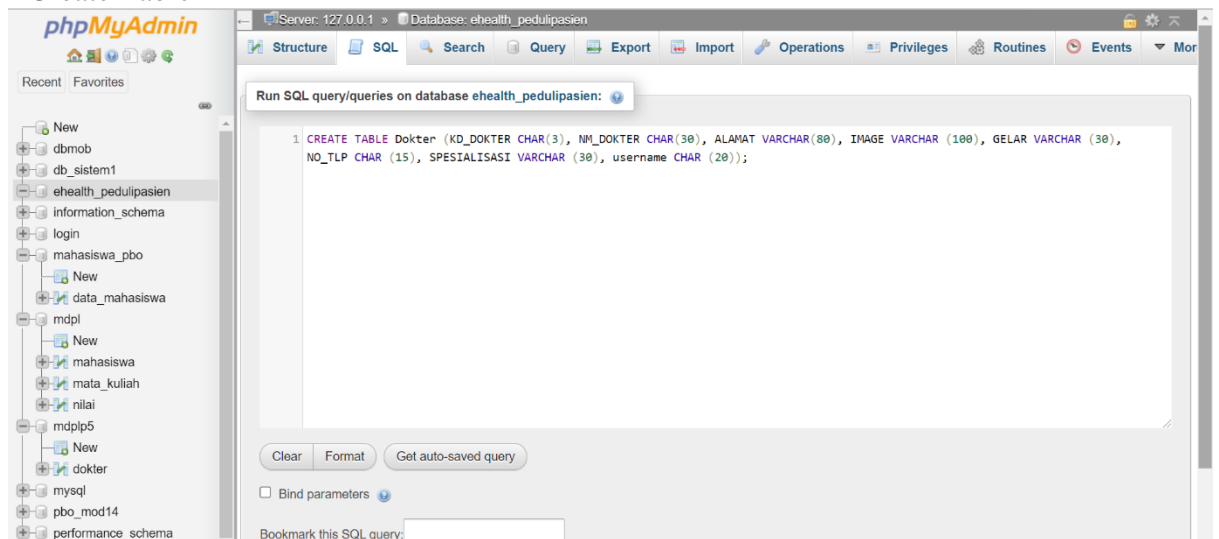
2021/2022

A. Data Definition Language (DDL) oleh 5200411241 Alfianda Suci Wulansari

1. Create Database



2. Create Table



phpMyAdmin

Server: 127.0.0.1 » Database: ehealth_pedulipasian » Table: dokter

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	KD_DOKTER	char(3)	utf8mb4_general_ci		No	None			Change Drop More
2	NM_DOKTER	char(30)	utf8mb4_general_ci		No	None			Change Drop More
3	ALAMAT	varchar(80)	utf8mb4_general_ci		No	None			Change Drop More
4	IMAGE	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
5	GELAR	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
6	NO_TLP	char(15)	utf8mb4_general_ci		No	None			Change Drop More
7	SPELIALISASI	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
8	username	char(20)	utf8mb4_general_ci		No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after username Go

Indexes Console

3. Alter

phpMyAdmin

Server: 127.0.0.1 » Database: ehealth_pedulipasian » Table: dokter

Run SQL query/queries on table ehealth_pedulipasian.dokter:

```
1 ALTER TABLE dokter ADD Tanggal Date;
```

SELECT * SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query

Bind parameters

Bookmark this SQL query:

Console

phpMyAdmin

Server: 127.0.0.1 » Database: ehealth_pedulipasian » Table: dokter

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	KD_DOKTER	char(3)	utf8mb4_general_ci		Yes	NULL			Change Drop More
2	NM_DOKTER	char(30)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	ALAMAT	varchar(80)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	IMAGE	varchar(100)	utf8mb4_general_ci		Yes	NULL			Change Drop More
5	GELAR	varchar(30)	utf8mb4_general_ci		Yes	NULL			Change Drop More
6	NO_TLP	char(15)	utf8mb4_general_ci		Yes	NULL			Change Drop More
7	SPELIALISASI	varchar(30)	utf8mb4_general_ci		Yes	NULL			Change Drop More
8	username	char(20)	utf8mb4_general_ci		Yes	NULL			Change Drop More
9	Tanggal	date			Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after Tanggal Go

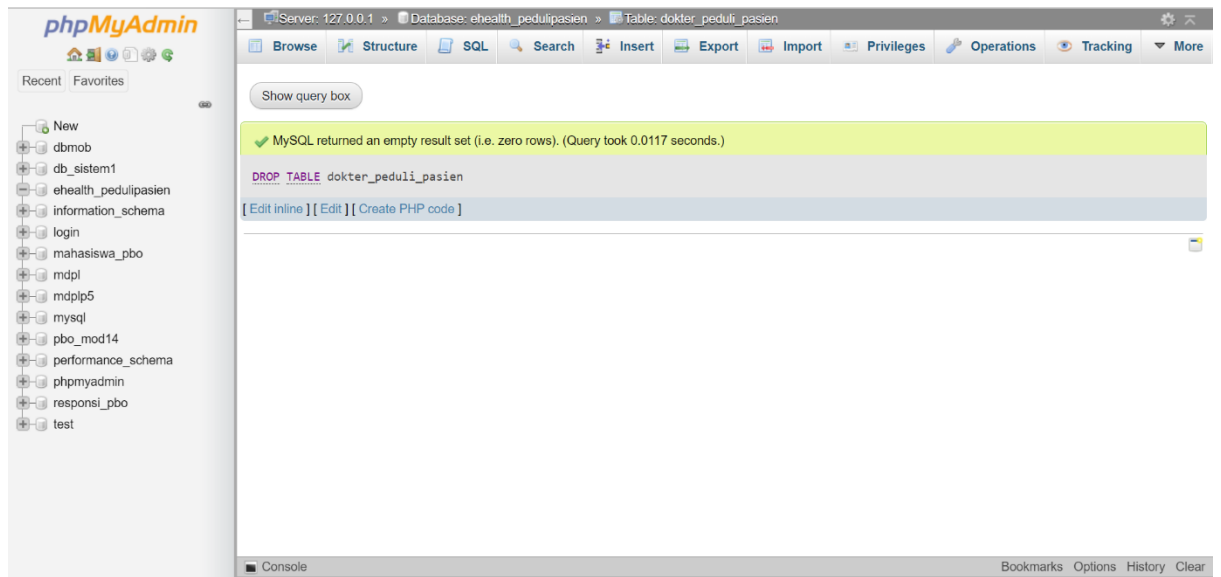
4. Rename

The first screenshot shows the phpMyAdmin interface with the 'dokter' table selected in the 'ehealth_pedulip pasien' database. The SQL query editor contains the command: `1 RENAME TABLE dokter TO Dokter_Peduli_Pasien;`. The table structure is visible on the right, listing columns: KD_DOKTER, NM_DOKTER, ALAMAT, IMAGE, GELAR, NO_TLP, SPESIALISASI, username, and Tanggal.

The second screenshot shows the result of the rename operation. A green message states: 'MySQL returned an empty result set (i.e. zero rows). (Query took 0.0008 seconds.)'. Below this, the SQL query editor shows: `1 SELECT * FROM `dokter_peduli_pasien``. The table structure for 'dokter_peduli_pasien' is displayed on the right, with the same columns as the original table. The table is now listed in the database structure on the left sidebar.

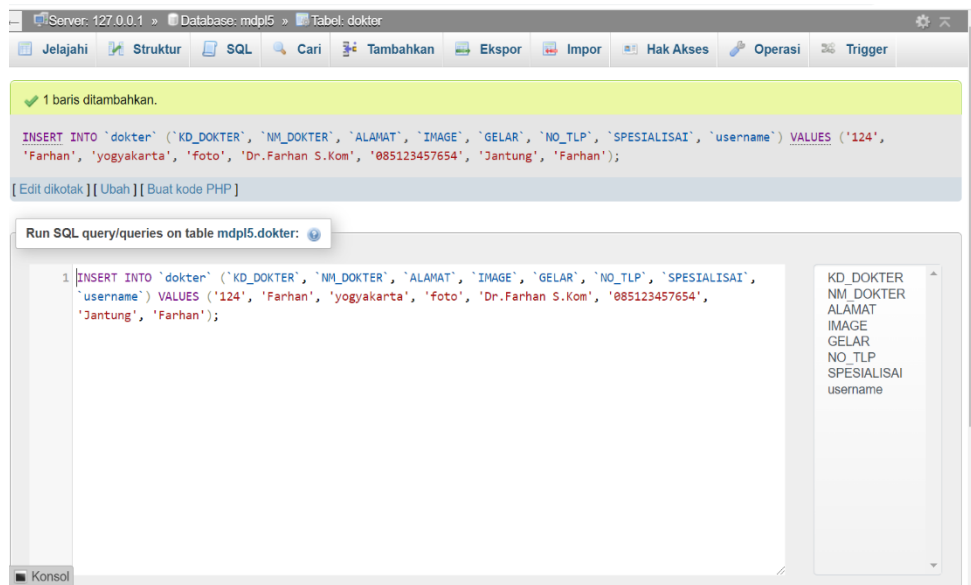
5. Drop

The screenshot shows the phpMyAdmin interface with the 'dokter_peduli_pasien' table selected. The SQL query editor contains the command: `1 DROP TABLE dokter_peduli_pasien;`. The table structure is visible on the right, listing columns: KD_DOKTER, NM_DOKTER, ALAMAT, IMAGE, GELAR, NO_TLP, SPESIALISASI, username, and Tanggal.

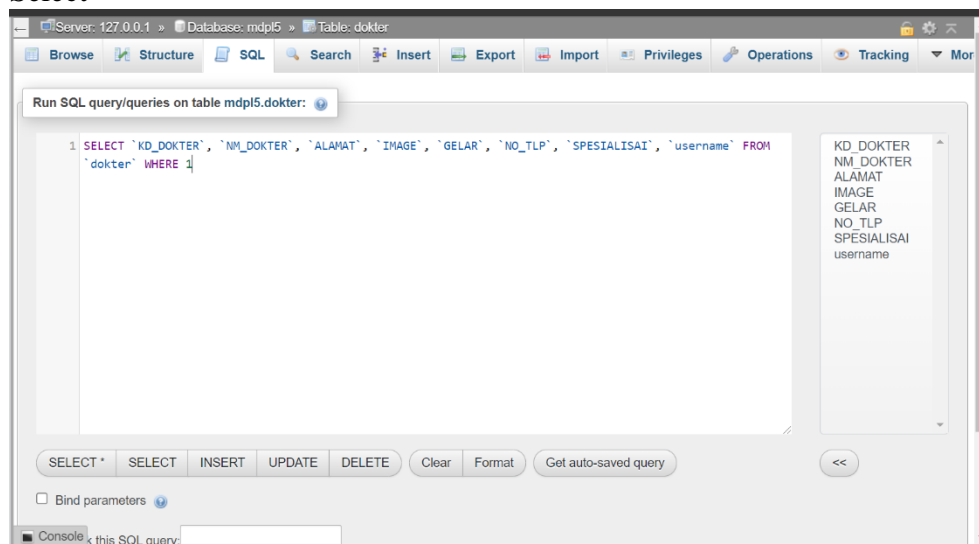


B. Data Manipulation Language oleh 5200411207 *Firnawa Adithama*

1. Insert



2. Select



Server: 127.0.0.1 » Database: mdlp5 » Table: dokter

Showing rows 0 - 2 (3 total, Query took 0.0016 seconds.)

```
SELECT `KD_DOKTER`, `NM_DOKTER`, `ALAMAT`, `IMAGE`, `GELAR`, `NO_TLP`, `SPESIALISAI`, `username` FROM `dokter` WHERE 1
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	KD_DOKTER	NM_DOKTER	ALAMAT	IMAGE	GELAR	NO_TLP	SPESIALISAI	username
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	124	Farhan	Yogyakarta,Kota	FOTO	Dr.Farhan S.Kom	085123457654	Jantung	Farhan
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	125	Vivi	Jakarta	FOTO	dr.Vivi,Sp.JP	087875422319	Jantung	oohvivi
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	126	Alif	Palembang	FOTO	dr. Alif, Sp.JP	087456324176	Jantung	alifrahman

☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

☐ Print ☐ Copy to clipboard ☐ Export ☐ Display chart ☐ Create view

3. Update

Server: 127.0.0.1 » Database: mdlp5 » Table: dokter

Run SQL query/queries on table mdlp5.dokter:

```
1 UPDATE `dokter` SET ALAMat ='SEMARANG' WHERE NM_DOKTER='Vivi'
```

SELECT * | SELECT | INSERT | UPDATE | DELETE | Clear | Format | Get auto-saved query

☐ Bind parameters

Console: Run this SQL query:

Server: 127.0.0.1 » Database: mdlp5 » Table: dokter

Showing rows 0 - 2 (3 total, Query took 0.0013 seconds.)

```
SELECT * FROM `dokter`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	KD_DOKTER	NM_DOKTER	ALAMAT	IMAGE	GELAR	NO_TLP	SPESIALISAI	username
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	124	Farhan	Yogyakarta,Kota	FOTO	Dr.Farhan S.Kom	085123457654	Jantung	Farhan
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	125	Vivi	SEMARANG	FOTO	dr.Vivi,Sp.JP	087875422319	Jantung	oohvivi
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	126	Alif	Palembang	FOTO	dr. Alif, Sp.JP	087456324176	Jantung	alifrahman

☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

☐ Print ☐ Copy to clipboard ☐ Export ☐ Display chart ☐ Create view

4. Delete

The screenshot shows the phpMyAdmin interface with the 'dokter' table selected. The SQL query editor contains the following query:

```
1 DELETE FROM `dokter` WHERE NM_DOKTER='Vivi1'
```

Below the query editor, the results of the query are displayed. The results show 0 rows affected out of 1 total row. The query took 0.0008 seconds. The results are displayed in a table with columns: KD_DOKTER, NM_DOKTER, ALAMAT, IMAGE, GELAR, NO_TLP, SPESIALISAI, and username. The table contains two rows of data:

KD_DOKTER	NM_DOKTER	ALAMAT	IMAGE	GELAR	NO_TLP	SPESIALISAI	username
124	Farhan	Yogyakarta,Kota	FOTO	Dr.Farhan S.Kom	085123457654	Jantung	Farhan
126	Alif	Palembang	FOTO	dr. Alif, Sp.JP	087456324176	Jantung	alifrahman

C. Transaction Control Language oleh 5200411225 Fina Nuraini

1. Commit

The screenshot shows the phpMyAdmin interface with the 'dokter' table selected. The SQL query editor contains the following query:

```
1 START TRANSACTION;  
2 INSERT INTO `dokter` (`KD_DOKTER`, `NM_DOKTER`, `ALAMAT`, `IMAGE`, `GELAR`, `NO_TLP`, `SPESIALISAI`,  
  `username`) VALUES ('126','Alif','Palembang','FOTO','dr. Alif,  
  Sp.JP','087456324176','Jantung','alifrahman');  
3 COMMIT;
```

Below the query editor, the results of the query are displayed. The results show 1 row affected out of 1 total row. The query took 0.0008 seconds. The results are displayed in a table with columns: KD_DOKTER, NM_DOKTER, ALAMAT, IMAGE, GELAR, NO_TLP, SPESIALISAI, and username. The table contains two rows of data:

KD_DOKTER	NM_DOKTER	ALAMAT	IMAGE	GELAR	NO_TLP	SPESIALISAI	username
124	Farhan	Yogyakarta,Kota	FOTO	Dr.Farhan S.Kom	085123457654	Jantung	Farhan
126	Alif	Palembang	FOTO	dr. Alif, Sp.JP	087456324176	Jantung	alifrahman

phpMyAdmin

Server: 127.0.0.1 » Database: mdp15 » Table: dokter

Showing rows 0 - 2 (3 total, Query took 0.0016 seconds.)

```
SELECT `KD_DOKTER`, `NM_DOKTER`, `ALAMAT`, `IMAGE`, `GELAR`, `NO_TLP`, `SPESIALISAI`, `username` FROM `dokter` WHERE 1
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

	KD_DOKTER	NM_DOKTER	ALAMAT	IMAGE	GELAR	NO_TLP	SPESIALISAI	username
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	124	Farhan	Yogyakarta,Kota	FOTO	Dr.Farhan S.Kom	085123457654	Jantung	Farhan
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	125	Vivi	Jakarta	FOTO	dr.Vivi,Sp.JP	087875422319	Jantung	oohvivi
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	126	Alif	Palembang	FOTO	dr. Alif, Sp.JP	087456324176	Jantung	alifrahman

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Console

2. Rollback

phpMyAdmin

Server: 127.0.0.1 » Database: mdp15 » Table: dokter

Run SQL query/queries on table mdp15.dokter:

```
1 START TRANSACTION;
2 DELETE FROM `dokter` WHERE NM_DOKTER= 'Alif';
3 ROLLBACK;
```

SELECT * SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query

Bind parameters

Console

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

```
START TRANSACTION
```

[Edit inline] [Edit] [Create PHP code]

1 row affected. (Query took 0.0023 seconds.)

```
DELETE FROM `dokter` WHERE NM_DOKTER= 'Alif'
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0550 seconds.)

```
ROLLBACK
```

[Edit inline] [Edit] [Create PHP code]

Console

phpMyAdmin

Server: 127.0.0.1 » Database: mdp15 » Table: dokter

Showing rows 0 - 1 (2 total, Query took 0.0015 seconds.)

SELECT * FROM `dokter`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

	KD_DOKTER	NM_DOKTER	ALAMAT	IMAGE	GELAR	NO_TLP	SPESIALISAI	username
124	Farhan	Yogyakarta,Kota	FOTO	Dr.Farhan S.Kom	085123457654	Jantung	Farhan	
126	Alif	Palembang	FOTO	dr. Alif, Sp.JP	087456324176	Jantung	alifrahman	

Check all | With selected: Edit | Copy | Delete | Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print | Copy to clipboard | Export | Display chart | Create view

localhost:8080/phpmyadmin/index.php?route=/view/create mark this SQL query

3. Savepoint

phpMyAdmin

Server: 127.0.0.1 » Database: mdp15 » Table: dokter

Run SQL query/queries on table mdp15.dokter:

```

1 START TRANSACTION;
2 INSERT INTO `dokter` (`KD_DOKTER`, `NM_DOKTER`, `ALAMAT`, `IMAGE`, `GELAR`, `NO_TLP`, `SPESIALISAI`, `username`) VALUES ('127','Ami','PaLangkaraya','FOTO','dr. Ami, Sp.JP','087875422392','Jantung','aminita');
3 SAVEPOINT save1;
4

```

SELECT * | SELECT | INSERT | UPDATE | DELETE | Clear | Format | Get auto-saved query

Console

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

START TRANSACTION

1 row inserted. (Query took 0.0057 seconds.)

INSERT INTO `dokter` (`KD_DOKTER`, `NM_DOKTER`, `ALAMAT`, `IMAGE`, `GELAR`, `NO_TLP`, `SPESIALISAI`, `username`) VALUES ('127','Ami','PaLangkaraya','FOTO','dr. Ami, Sp.JP','087875422392','Jantung','aminita')

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

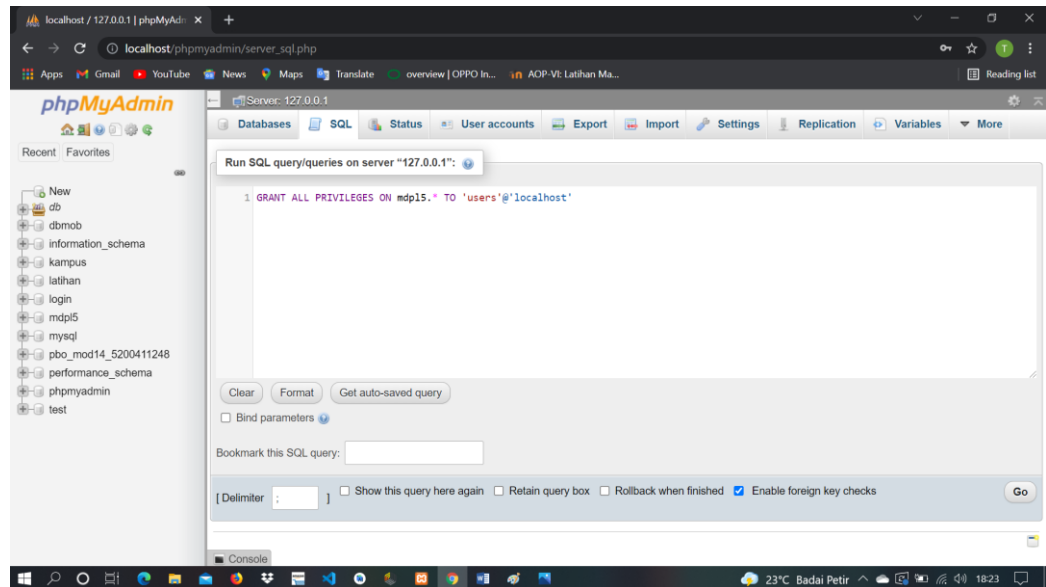
SAVEPOINT save1

Console

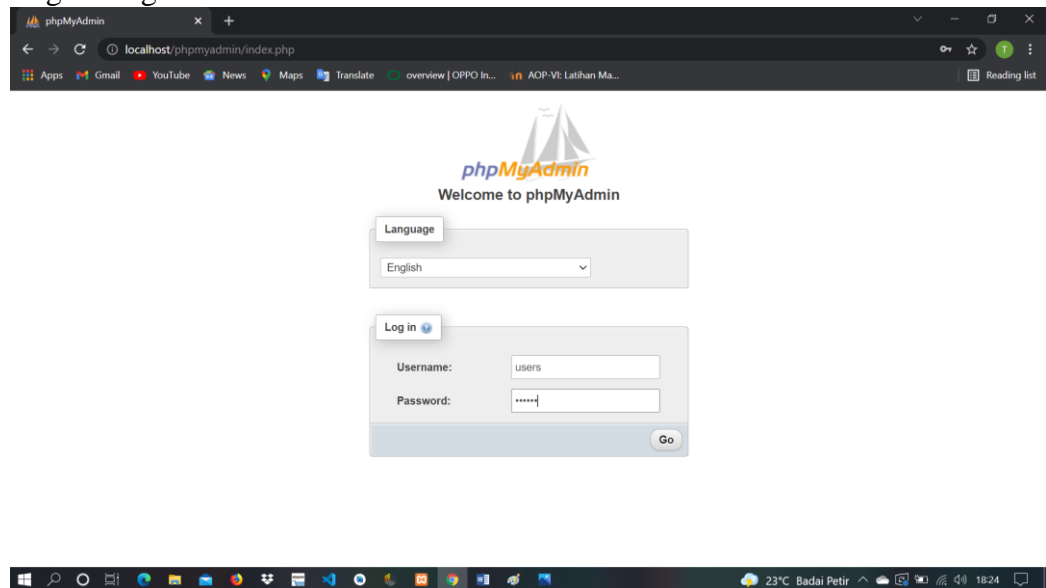
D. DCL (Data Control Language) oleh 5200411248 Thio Prasetyo

1. GRANT

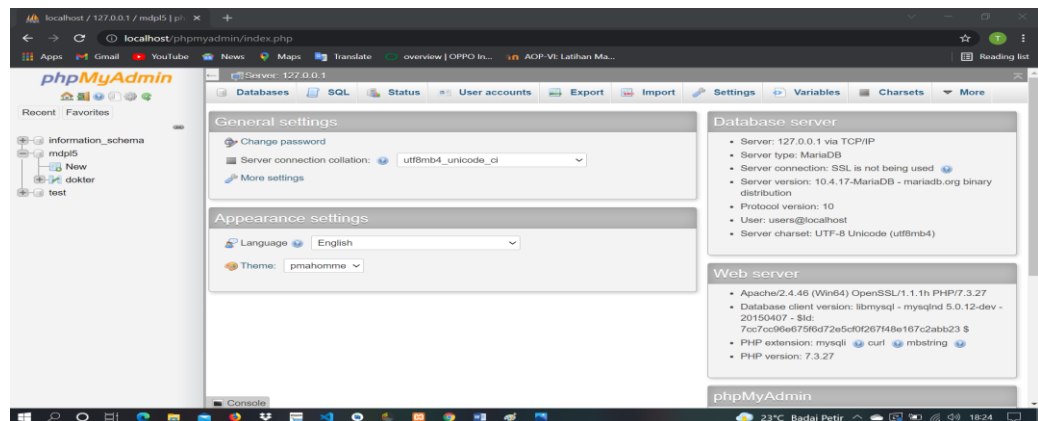
Memberikan users hak akses ke database



Login dengan username users

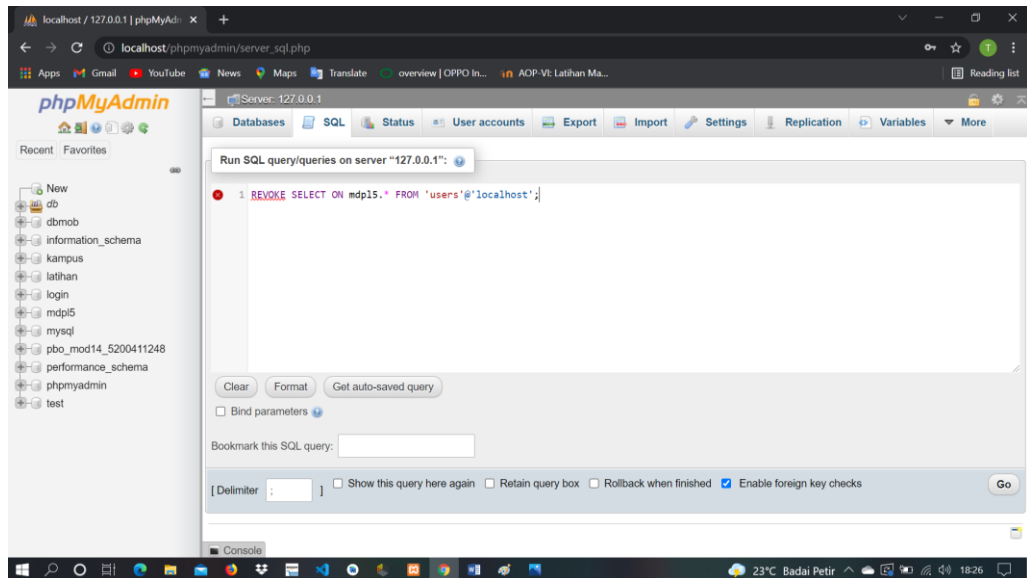


Database terakses

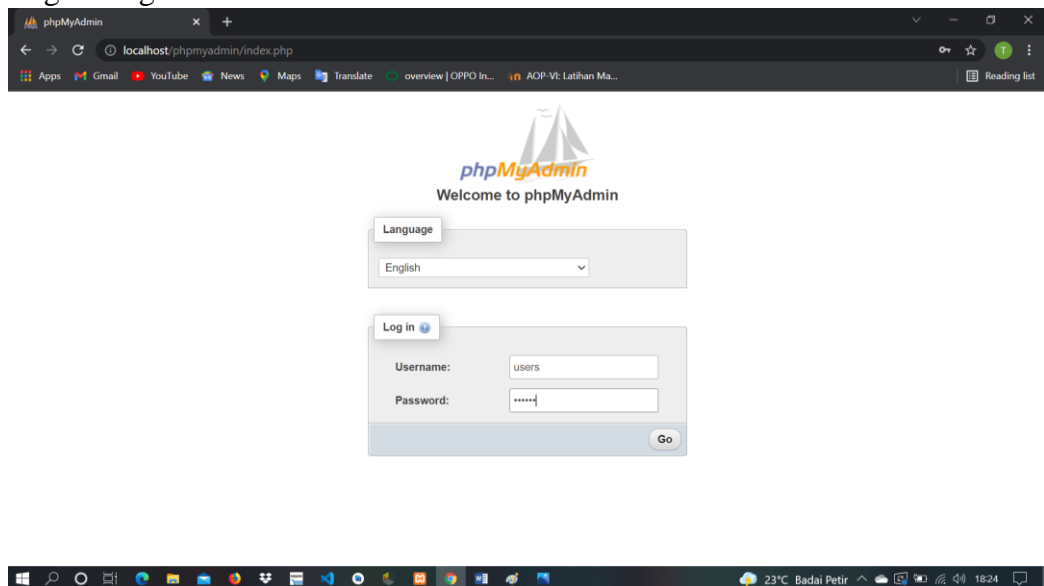


2. REVOKE

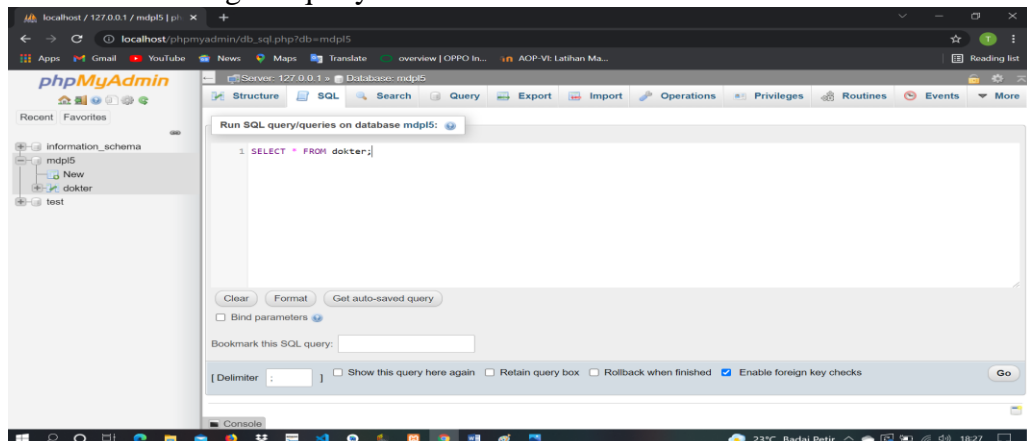
Mencabut hak akses SELECT users ke database



Login dengan username users



Hasil ketika mengetik query SELECT



Tidak dapat terakses atau ditolak

