

Tugas Kelompok MDPL Praktik



Anggota kelompok :

5200411507 - Sutan Muhammad Bukhari

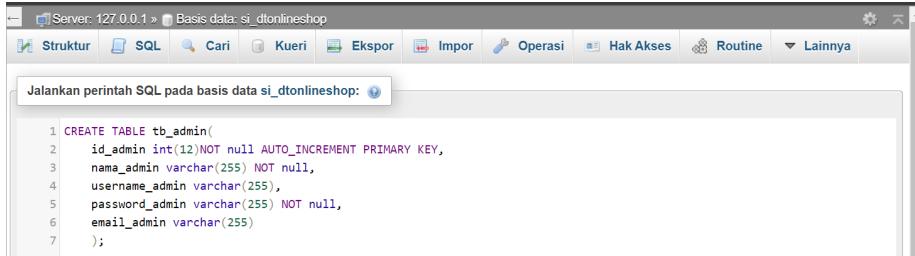
5200411184 - Way Lilo Tandang Trengginas

5200411335 - Ibnu Risky Pramudito

**PROGRAM STUDI TEKNIK INFORMATIKA FAKULTAS SAINS
DAN TEKNOLOGI UNIVERSITAS TEKNOLOGI YOGYAKARTA
2021**

DDL

1. CREATE (IBNU RISKY PRAMUDITO)



```
1 CREATE TABLE tb_admin(
2     id_admin int(12) NOT null AUTO_INCREMENT PRIMARY KEY,
3     nama_admin varchar(255) NOT null,
4     username_admin varchar(255),
5     password_admin varchar(255) NOT null,
6     email_admin varchar(255)
7 );
```

Hasilnya :



#	Nama	Jenis	Penyortiran	Atribut	Tak Ternilai	Bawaan	Komentar	Ekstra	Tindakan
1	id_admin	int(12)			Tidak	Tidak ada		AUTO_INCREMENT	Ubah Hapus Lainnya
2	nama_admin	varchar(255)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
3	username_admin	varchar(255)	utf8mb4_general_ci		Ya	NULL			Ubah Hapus Lainnya
4	password_admin	varchar(255)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
5	email_admin	varchar(255)	utf8mb4_general_ci		Ya	NULL			Ubah Hapus Lainnya

2. DROP (IBNU RISKY PRAMUDITO)

Berikut adalah atribut dari tb_admin yang terdapat di dalam database si_dtonlineshop



#	Nama	Jenis	Penyortiran	Atribut	Tak Ternilai	Bawaan	Komentar	Ekstra	Tindakan
1	id_admin	int(12)			Tidak	Tidak ada		AUTO_INCREMENT	Ubah Hapus Lainnya
2	nama_admin	varchar(255)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
3	username_admin	varchar(255)	utf8mb4_general_ci		Ya	NULL			Ubah Hapus Lainnya
4	password_admin	varchar(255)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
5	email_admin	varchar(255)	utf8mb4_general_ci		Ya	NULL			Ubah Hapus Lainnya

Menambahkan perintah query DROP :



```
1 DROP TABLE tb_admin
```

Setelah menjalankan perintah :



3. ALTER (Way Lilo)

- Menambah kolom **email_admin** pada **tb_admin**

Struktur sebelum ditambahkan pada kolom **email_admin**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_admin 🔑	int(12)			No	None		AUTO_INCREMENT	Change Drop More
2	nama_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
3	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	password_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More

Saat proses penambahan kolom **email_admin** pada **tb_admin**

```
1 ALTER TABLE tb_admin ADD email_admin varchar(255)
```

Setelah penambahan kolom **email_admin** pada **tb_admin**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_admin 🔑	int(12)			No	None		AUTO_INCREMENT	Change Drop More
2	nama_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
3	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	password_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
5	email_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

- Menghapus kolom **email_admin** pada tb_admin

Struktur sebelum kolom **email_admin** dihapus

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_admin	int(12)			No	None		AUTO_INCREMENT	Change Drop More
2	nama_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
3	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	password_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
5	email_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Proses penghapusan kolom **email_admin** pada tb_admin

Run SQL query/queries on table si_dtonlineshop.tb_admin:

```
1 ALTER TABLE tb_admin DROP COLUMN email_admin
```

Setelah penghapusan kolom **email_admin** pada tb_admin

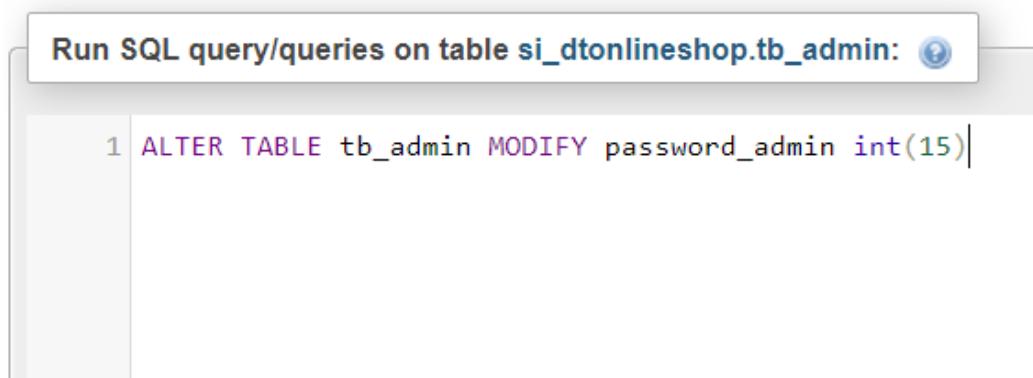
	Browse		Structure		SQL		Search		Insert		Export		Import		Privileges		Operations		Tracking
Table structure										Relation view									
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action										
1	id_admin	int(12)			No	None		AUTO_INCREMENT	Change Drop More										
2	nama_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More										
3	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More										
4	password_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More										

- Memodifikasi kolom **password_admin** pada tb_admin

Struktur sebelum kolom **password_admin** dimodifikasi

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_admin	int(12)			No	None		AUTO_INCREMENT	Change Drop More
2	nama_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
3	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	password_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
5	email_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Proses modifikasi kolom **password_admin** pada **tb_admin**



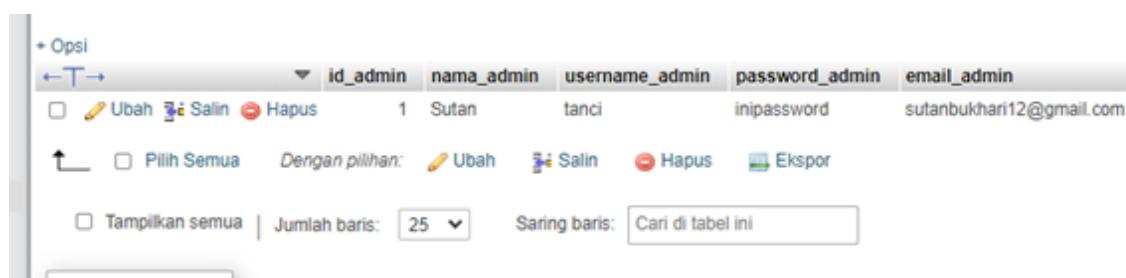
```
Run SQL query/queries on table si_dtonlineshop.tb_admin: ⓘ  
1 ALTER TABLE tb_admin MODIFY password_admin int(15)
```

Setelah modifikasi tipe data **password_admin** dari varchar menjadi Integer pada **tb_admin**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_admin ⚒	int(12)			No	None		AUTO_INCREMENT	Change Drop More
2	nama_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
3	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	password_admin	int(15)			Yes	NULL			Change Drop More
5	email_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

4. TRUNCATE (Way Lilo)

Sebelum :



+ Opsi

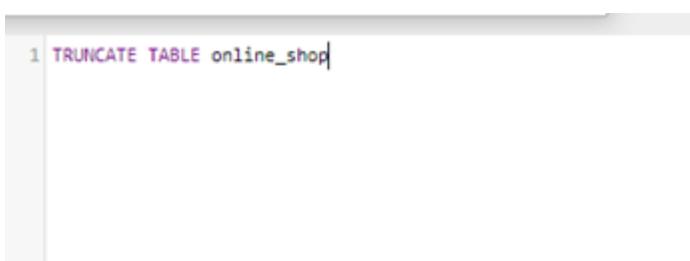
← → id_admin nama_admin username_admin password_admin email_admin

Ubah Salin Hapus 1 Sutan tanci inipassword sutanbukhari12@gmail.com

Pilih Semua Dengan pilihan: Ubah Salin Hapus Eksport

Tampilkan semua Jumlah baris: 25 Saring baris: Cari di tabel ini

Masukan SQLnya :



```
1 TRUNCATE TABLE online_shop
```

Hasilnya:

The screenshot shows the MySQL Workbench interface. At the top, there is a toolbar with various icons. Below the toolbar, a section titled "Operasi hasil kueri" (Query results operation) displays the results of a previous query. The results show a table structure with columns: id_admin, nama_admin, username_admin, password_admin, and email_admin. There is also a button labeled "Buat tampilan" (Create view).

5. RENAME (Way Lilo)

Sebelum :

The screenshot shows the MySQL Workbench interface. The "Tabel" (Tables) tab is selected. A single table named "online_shop" is listed. The table has two rows of data. The table structure is shown in the main pane.

Masukan SQLnya :

The screenshot shows the MySQL Workbench interface. The SQL editor pane contains the following SQL command:

```
1 RENAME TABLE online_shop to online_shop2;
```

Hasilnya :

The screenshot shows the MySQL Workbench interface. The "Tabel" (Tables) tab is selected. The table name has been changed to "online_shop2". The table structure is shown in the main pane.

DML

1. INSERT (Sutan Muhammad Bukhari)

The screenshot shows the MySQL Workbench interface with an SQL query window. The query is:

```
1 INSERT INTO online_shop VALUES ("","sutan","tanci","inipassword","sutanbukhari12@gmail.com");
```

Below the query window are several buttons: SELECT*, SELECT, INSERT, UPDATE, DELETE, Bersihkan, Format, Get auto-saved query, and Bind parameters. There is also a text input field labeled "Markahi kueri SQL ini:".

Hasilnya :

The screenshot shows the MySQL Workbench table viewer displaying the data from the 'online_shop' table. The table has columns: id_admin, nama_admin, username_admin, password_admin, and email_admin. One row is shown with values: 0, sutan, tanci, inipassword, and sutanbukhari12@gmail.com.

	+ Opsi						
	Ubah	Salin	Hapus				
				0	sutan	tanci	inipassword
							sutanbukhari12@gmail.com

2. UPDATE (Sutan Muhammad Bukhari)

The screenshot shows the MySQL Workbench interface with an SQL query window. The query is:

```
1 UPDATE online_shop
2 SET nama_admin = "bukhari"
3 WHERE nama_admin = "sutan";
```

Below the query window are several buttons: SELECT*, SELECT, INSERT, UPDATE, DELETE, Bersihkan, Format, and Get auto-saved query.

Hasilnya :

The screenshot shows the MySQL Workbench table viewer displaying the data from the 'online_shop' table. The table has columns: id_admin, nama_admin, username_admin, password_admin, and email_admin. One row is shown with values: 0, bukhari, tanci, inipassword, and sutanbukhari12@gmail.com.

	+ Opsi						
	Ubah	Salin	Hapus				
				0	bukhari	tanci	inipassword
							sutanbukhari12@gmail.com

3. DELETE (Sutan Muhammad Bukhari)

```
1 DELETE from online_shop WHERE id_admin = "0";
```

SELECT * SELECT INSERT UPDATE DELETE Bersihkan Format Get auto-saved query
 Bind parameters

Hasilnya : (Kosong karena telah dihapus)

id_admin nama_admin username_admin password_admin email_admin

Operasi hasil kueri

 [Buat tampilan](#)

DCL

1. GRANT (Sutan Muhammad Bukhari)

Masukan SQLnya:

```
Run SQL query/queries on table db_onlineshop.online_shop2: 1 | GRANT DELETE ON online_shop2 TO ibnu;
```

Hasilnya akan seperti ini :

	Nama pengguna	Nama pemilik	Jenis	Hak Akses	Pemberi Izin	Tindakan
<input type="checkbox"/>	root	127.0.0.1	global	ALL PRIVILEGES	Ya	
<input type="checkbox"/>	root	::1	global	ALL PRIVILEGES	Ya	
<input type="checkbox"/>	root	localhost	global	ALL PRIVILEGES	Ya	
<input type="checkbox"/>	ibnu	%	table-specific	DELETE	Tidak	

Pilih Semua Dengan pilihan:

2. REVOKE (Sutan Muhammad Bukhari)

Masukan terlebih dahulu SQLnya :

Jalankan perintah SQL pada basis data db_onlineshop:

```
1 REVOKE DELETE ON online_shop2 FROM ibnu;
```

Rersihkan Format Get auto-saved query

Hasil :

	Nama pengguna	Nama pemilik	Kata Sandi	Hak akses global	Grup pengguna	Pemberi Izin	Tindakan
<input type="checkbox"/>	Semua	%	Tidak	USAGE		Tidak	Edit privileges Ekspor
<input type="checkbox"/>	ibnu	%	Tidak	USAGE		Tidak	Edit privileges Ekspor
<input type="checkbox"/>	pma	localhost	Tidak	USAGE		Tidak	Edit privileges Ekspor
<input type="checkbox"/>	root	127.0.0.1	Tidak	ALL PRIVILEGES		Ya	Edit privileges Ekspor
<input type="checkbox"/>	root	::1	Tidak	ALL PRIVILEGES		Ya	Edit privileges Ekspor
<input type="checkbox"/>	root	localhost	Tidak	ALL PRIVILEGES		Ya	Edit privileges Ekspor

TCL (IBNU RISKY PRAMUDITO)

1. Commit

Masuk ke MariaDB menggunakan command prompt(cmd)

Kemudian untuk masuk ke database si_dtonlineshop gunakan query

(“**use si_dtonlineshop**”), untuk melihat isi tabel yang sudah dibuat gunakan query (“**select * from tb_admin;**”).

```
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 119
Server version: 10.4.17-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)]>
MariaDB [(none)]> use si_dtonlineshop
Database changed
MariaDB [si_dtonlineshop]> select * from tb_admin;
+----+-----+-----+-----+-----+
| id_admin | nama_admin | username_admin | password_admin | email_admin |
+----+-----+-----+-----+-----+
| 1 | Sutan Bukhari | sutan | 12345 | sutan@gmail.com |
| 2 | lilo | lilo | 2345 | lilo@blablabla.com |
| 3 | ibnu | inuu | 4567 | inuu@blablabla.com |
+----+-----+-----+-----+-----+
3 rows in set (0.001 sec)

MariaDB [si_dtonlineshop]>
```

Selanjutnya untuk menambahkan data admin baru, gunakan query

(“**start transaction;**”), lalu gunakan query

(**insert into tb_admin values("","","Risky","Risk","9876","Risk@blablabla.com");**)

Untuk menambah data ke dalam tb_admin.

```
C:\xampp\mysql\bin>mysql -u root -p
MariaDB [si_dtonlineshop]> start transaction;
Query OK, 0 rows affected (0.001 sec)

MariaDB [si_dtonlineshop]> insert into tb_admin values("","","Risky","Risk","9876","Risk@blablabla.com");
Query OK, 1 row affected, 1 warning (0.040 sec)

MariaDB [si_dtonlineshop]> commit;
Query OK, 0 rows affected (0.042 sec)

MariaDB [si_dtonlineshop]> select * from tb_admin;
+----+-----+-----+-----+-----+
| id_admin | nama_admin | username_admin | password_admin | email_admin |
+----+-----+-----+-----+-----+
| 1 | Sutan Bukhari | sutan | 12345 | sutan@gmail.com |
| 2 | lilo | lilo | 2345 | lilo@blablabla.com |
| 3 | ibnu | inuu | 4567 | inuu@blablabla.com |
| 4 | Risky | Risk | 9876 | Risk@blablabla.com |
+----+-----+-----+-----+-----+
4 rows in set (0.001 sec)

MariaDB [si_dtonlineshop]>
```

2.

3. Rollback

Caranya sama seperti saat melakukan query commit, tetapi pada saat menambahkan data values ke dalam tb_admin, data yang ditambahkan berjumlah 2 data, sehingga akan terjadi eror.

```
Prompt Perintah - mysql -u root -p
MariaDB [si_dtonlineshop]> select * from tb_admin;
+----+-----+-----+-----+-----+
| id_admin | nama_admin | username_admin | password_admin | email_admin |
+----+-----+-----+-----+-----+
| 1 | Sutan Bukhari | sutan | 12345 | sutan@gmail.com |
| 2 | lilo | lilo | 2345 | lilo@blablabla.com |
| 3 | ibnu | inuu | 4567 | inuu@blablabla.com |
| 4 | Risky | Risk | 9876 | Risk@blablabla.com |
+----+-----+-----+-----+-----+
4 rows in set (0.001 sec)

MariaDB [si_dtonlineshop]> start transaction;
Query OK, 0 rows affected (0.001 sec)

MariaDB [si_dtonlineshop]> insert into tb_admin values("", "Ujang", "Uj", "9986", "Uj@blablabla.com");
Query OK, 1 row affected, 1 warning (0.039 sec)

MariaDB [si_dtonlineshop]> insert into tb_admin values("", "opi", "op", "9786", "op@blablabla.com");
Query OK, 1 row affected, 1 warning (0.001 sec)

MariaDB [si_dtonlineshop]>
```

Maka disitulah dibutuhkan query rollback (“**rollback;**”)

```
Prompt Perintah - mysql -u root -p
MariaDB [si_dtonlineshop]> insert into tb_admin values("", "Ujang", "Uj", "9986", "Uj@blablabla.com");
Query OK, 1 row affected, 1 warning (0.039 sec)

MariaDB [si_dtonlineshop]> insert into tb_admin values("", "opi", "op", "9786", "op@blablabla.com");
Query OK, 1 row affected, 1 warning (0.001 sec)

MariaDB [si_dtonlineshop]> rollback;
Query OK, 0 rows affected (0.001 sec)

MariaDB [si_dtonlineshop]> select * from tb_admin;
+----+-----+-----+-----+-----+
| id_admin | nama_admin | username_admin | password_admin | email_admin |
+----+-----+-----+-----+-----+
| 1 | Sutan Bukhari | sutan | 12345 | sutan@gmail.com |
| 2 | lilo | lilo | 2345 | lilo@blablabla.com |
| 3 | ibnu | inuu | 4567 | inuu@blablabla.com |
| 4 | Risky | Risk | 9876 | Risk@blablabla.com |
+----+-----+-----+-----+-----+
4 rows in set (0.001 sec)

MariaDB [si_dtonlineshop]>
```

Dan data akan tereset kembali seperti pada saat melakukan commit.