

DDL

Create (Whitnu Nastain)

```
1 create table tb_admin (
2     id_admin int(12)not null AUTO_INCREMENT PRIMARY KEY,
3     nama_admin  varchar(255) NOT NULL,
4     email_admin varchar(255),
5     password_admin varchar(255) not null,
6     username_admin varchar(255)
7 );
8
```

Hasilnya seperti ini

v	si_pembeliandistributor tb_admin
!	id_admin : int(12)
!	nama_admin : varchar(255)
!	email_admin : varchar(255)
!	password_admin : varchar(255)
!	username_admin : varchar(255)

DROP (AL-HAYDAR RIZALDY)

Atribut dari tabel **tb_admin** yang terdapat dalam database **si_pembeliandistributor**

The screenshot shows the 'Table structure' view in MySQL Workbench. The table 'tb_admin' has five columns: 'nama' (varchar(255)), 'username' (varchar(225)), 'email' (varchar(225)), 'password' (varchar(225)), and 'nama_kacab' (varchar(225)). All columns have a collation of utf8mb4_general_ci, attributes of 'None', and are set to 'No' for both 'Null' and 'Default'. There are no comments, extra options, or indexes defined.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	nama	varchar(255)	utf8mb4_general_ci		No	None			Change Drop
2	username	varchar(225)	utf8mb4_general_ci		No	None			Change Drop
3	email	varchar(225)	utf8mb4_general_ci		No	None			Change Drop
4	password	varchar(225)	utf8mb4_general_ci		No	None			Change Drop
5	nama_kacab	varchar(225)	utf8mb4_general_ci		No	None			Change Drop

This screenshot shows the same table structure in a different interface. The columns are listed under the table name 'tb_admin'. The first column, 'nama', is highlighted in pink, indicating it is selected.

si_pembeliandistributor tb_admin
nama : varchar(255)
username : varchar(225)
email : varchar(225)
password : varchar(225)
nama_kacab : varchar(225)

```
DROP TABLE tb_admin
```

Hasil setelah perintah DROP berhasil digunakan, tabel **tb_admin** terhapus tetapi tidak dengan databasenya

The screenshot shows the phpMyAdmin interface. On the left, the database tree is visible, showing various databases like akademik, buku, coba_commit, db, information_schema, mysql, performance_schema, phpmyadmin, and si_pembeliandistributor. The si_pembeliandistributor database is selected. The main area is titled "Untitled *". At the top, there are tabs for Structure, SQL, Search, Query, Export, Import, Operations, Privileges, and More. Below the tabs, there's a toolbar with various icons. The bottom section is a console window with the following text:

```
Press Ctrl+Enter to execute query
=sudo chmod 777 config.default.php.
>DROP TABLE tb_admin
```

ALTER (AL-HAYDAR RIZALDY)

Menambah kolom **nama_kacab** pada **tb_admin**

The screenshot shows the MySQL Workbench interface with the following details:

- Server:** 127.0.0.1 | **Database:** si_pembeliandistributor | **Table:** tb_admin
- Table Structure:** Shows columns: 1. nama (varchar(255)), 2. username (varchar(255)), 3. email (varchar(255)), 4. password (varchar(255)).
- Action Bar:** Includes buttons for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, and More.
- SQL Editor:** Contains the following SQL commands:

```
> ALTER TABLE tb_admin ADD nama_kacab varchar(255)
> SELECT * FROM `tb_admin`
```
- Message Bar:** Press Ctrl+Enter to execute query.

hasil setelah menambahkan kolom **nama_kacab** pada **tb_admin**

The screenshot shows the MySQL Workbench interface with the following details:

- Server:** 127.0.0.1 | **Database:** si_pembeliandistributor | **Table:** tb_admin
- Table Structure:** Shows columns: 1. nama (varchar(255)), 2. username (varchar(255)), 3. email (varchar(255)), 4. password (varchar(255)), 5. nama_kacab (varchar(255)).
- Action Bar:** Includes buttons for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, and More.
- Message Bar:** Press Ctrl+Enter to execute query.

Menghapus kolom **nama_kacab** pada **tb_admin**

The screenshot shows the MySQL Workbench interface with the following details:

- Server:** 127.0.0.1 | **Database:** si_pembeliandistributor | **Table:** tb_admin
- Table Structure:** Shows columns: 1. nama (varchar(255)), 2. username (varchar(255)), 3. email (varchar(255)), 4. password (varchar(255)), 5. nama_kacab (varchar(255)).
- Action Bar:** Includes buttons for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, and More.
- SQL Editor:** Contains the following SQL command:

```
> ALTER TABLE tb_admin
DROP COLUMN nama_kacab;
```
- Message Bar:** Press Ctrl+Enter to execute query.

hasil setelah berhasil menghapus kolom **nama_kacab**

Server: 127.0.0.1 » Database: si_pembeliandistributor » Table: tb_admin

Browse Structure SQL Search Insert Export Import Privileges More

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	nama	varchar(255)	utf8mb4_general_ci		No	None			Change Drop
2	username	varchar(255)	utf8mb4_general_ci		No	None			Change Drop
3	email	varchar(255)	utf8mb4_general_ci		No	None			Change Drop
4	password	varchar(255)	utf8mb4_general_ci		No	None			Change Drop

Check all With selected: Browse Change Drop Primary Unique Index

Fulltext Add to central columns Remove from central columns

Memodifikasi kolom **nama_kacab** pada **tb_admin**

Server: 127.0.0.1 » Database: si_pembeliandistributor » Table: tb_admin

Browse Structure SQL Search Insert Export Import Privileges More

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	nama	varchar(255)	utf8mb4_general_ci		No	None			Change Drop
2	username	varchar(255)	utf8mb4_general_ci		No	None			Change Drop
3	email	varchar(255)	utf8mb4_general_ci		No	None			Change Drop
4	password	varchar(255)	utf8mb4_general_ci		No	None			Change Drop

Check all With selected: Browse Change Drop Primary Unique Index

Fulltext Add to central columns Remove from central columns

Press Ctrl+Enter to execute query

> ALTER TABLE tb_admin MODIFY password int(20)

>

hasil setelah merubah tipe data **password** dari varchar menjadi int

Server: 127.0.0.1 » Database: si_pembeliandistributor » Table: tb_admin

Browse Structure SQL Search Insert Export Import Privileges More

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	nama	varchar(255)	utf8mb4_general_ci		No	None			Change Drop
2	username	varchar(255)	utf8mb4_general_ci		No	None			Change Drop
3	email	varchar(255)	utf8mb4_general_ci		No	None			Change Drop
4	password	int(20)			Yes	NULL			Change Drop

Check all With selected: Browse Change Drop Primary Unique Index

Fulltext Add to central columns Remove from central columns

TRUNCATE (AL-HAYDAR RIZALDY)

The screenshot shows the MySQL Workbench interface. At the top, there's a table view with columns: nama, username, email, password, and nama_kacab. A single row is present: rizal, riz, riz@gmail.com, 1234, and samsung. Below the table are filtering options ('Show all' dropdown set to 25, 'Filter rows' search bar) and a 'Query results operations' section with a text input field containing the query: > TRUNCATE TABLE tb_admin.

HASIL

The screenshot shows the MySQL Workbench interface after executing the TRUNCATE query. It displays the same table structure as before, but the data has been cleared. The 'nama_kacab' column now contains null values. The 'Query results operations' section is empty.

RENAME (Whitnu Nastain)

Sebelum Rename :

The screenshot shows the MySQL Workbench interface with a table list. It lists two tables: barang_objek and tb_admin. The table list includes columns for Tabel, Tindakan, Baris, Jenis, Penyortiran, Ukuran, and Beban. The tb_admin table has 2 rows, while barang_objek has 5 rows.

Menggunakan Query

RENAME TABLE barang_objek TO barang

Setelah Rename :



DML

INSERT (Eldyan Wasis Aristo Kana)

Kuerinya seperti Ini :

```
✓ 1 baris ditambahkan.  
Nomor baris baru: 1 (Pencarian dilakukan dalam 0,0078 detik.)  
  
INSERT INTO tb_admin VALUES ("","ian","salamdaribinjai@gmail.com","senggoldongbouss","binjai","bebaslahya");  
[ Edit dikotak ] [ Ubah ] [ Buat kode PHP ]  
  
⚠ Warning: #1366 Incorrect integer value: " for column 'ian_database`.`tb_admin`.`id_admin` at row 1
```

Hasilnya seperti ini :

✓ Menampilkan baris 0 - 0 (total 1. Pencarian dilakukan dalam 0,0014 detik.)

```
SELECT * FROM `tb_admin`
```

Profil [Edit dikotak] [Ubah] [Jelaskan SQL] [Buat kode PHP] [Segarkan]

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

+ Opsi Ubah Salin Hapus 1 | id_admin nama_admin email_admin password_admin username_admin nama_kaca

	id_admin	nama_admin	email_admin	password_admin	username_admin	nama_kaca
<input type="checkbox"/>	1	ian	salamdaribinjai@gmail.com	senggoldongbouss	binjai	bebaslahya

Pilih Semua Dengan pilihan: Ubah Salin Hapus Eksport

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

UPDATE (Eldyan Wasis Aristo Kana)

Sebelum di update :

Struktur SQL Cari Kueri Eksport Impor

Jalankan perintah SQL pada basis data ian_database:

```
1 UPDATE tb_admin
2 SET nama_admin = "mang krisna"
3 WHERE nama_admin = "ian";
```

Setelah di update :

✓ Menampilkan baris 0 - 0 (total 1, Pencarian dilakukan dalam 0,0013 detik.)

```
SELECT * FROM `tb_admin`
```

Profil [Edit dikotak] [Ubah] [Jelaskan SQL] [Buat kode PHP] [Segarkan]

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

+ Opsi Ubah Salin Hapus 1 | id_admin nama_admin email_admin password_admin username_admin nama_kaca

	id_admin	nama_admin	email_admin	password_admin	username_admin	nama_kaca
<input type="checkbox"/>	1	mang krisna	salamdaribinjai@gmail.com	senggoldongbouss	binjai	bebaslahya

Pilih Semua Dengan pilihan: Ubah Salin Hapus Eksport

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

DELETE (Eldyan Wasis Aristo Kana)

Sebelum di delete:

The screenshot shows a MySQL database interface with the following details:

- Query bar: `SELECT * FROM `tb_admin``
- Message bar: "Menampilkan baris 0 - 1 (total 2, Pencarian dilakukan dalam 0,0018 detik.)"
- Table structure: `+ Opsi +---+ id_admin | nama_admin | email_admin | password_admin | username_admin | nama_kaca +---+ 1 | Ubah | Salin | Hapus | 2 | whitnu | whintu@gmail.com | whintu | whintid | bebaslahya | 2 | Ubah | Salin | Hapus | 3 | mang ijad | ijadbejad@gmail.com | ijadniboussenggoldong | ijath | bebaslahya2 +---+`
- Action buttons: `↑ ← Pilih Semua Dengan pilihan: Ubah Salin Hapus Eksport`
- Filter and search: `Tampilkan semua Jumlah baris: 25 Saring baris: Cari di tabel ini Sort by key: Tidak ada`

Sesudah di delete:

The screenshot shows a MySQL database interface with the following details:

- Query bar: `SELECT * FROM `tb_admin``
- Message bar: "Menampilkan baris 0 - 0 (total 1, Pencarian dilakukan dalam 0,0007 detik.)"
- Table structure: `+ Opsi +---+ id_admin | nama_admin | email_admin | password_admin | username_admin | nama_kaca +---+ 1 | Ubah | Salin | Hapus | 2 | whitnu | whintu@gmail.com | whintu | whintid | bebaslahya | 2 | Ubah | Salin | Hapus | 3 | mang ijad | ijadbejad@gmail.com | ijadniboussenggoldong | ijath | bebaslahya2 +---+`
- Action buttons: `↑ ← Pilih Semua Dengan pilihan: Ubah Salin Hapus Eksport`
- Filter and search: `Tampilkan semua Jumlah baris: 25 Saring baris: Cari di tabel ini`

DCL

GRANT (Whitnu Nastain)

The screenshot shows the MySQL Workbench interface for the 'tb_admin' table in the 'si_pembeliandistributor' database. The 'Privileges' tab is selected. A table lists users with their privileges:

User name	Host name	Type	Privileges	Grant	Action
rizal	localhost	global	ALL PRIVILEGES	Yes	Edit privileges Export
root	127.0.0.1	global	ALL PRIVILEGES	Yes	Edit privileges Export
root	::1	global	ALL PRIVILEGES	Yes	Edit privileges Export
root	localhost	global	ALL PRIVILEGES	Yes	Edit privileges Export

Buttons at the bottom include 'Check all' and 'With selected: Export'.

The screenshot shows the MySQL Workbench interface with the 'SQL' tab selected. It displays a single SQL query:

```
1 GRANT DELETE ON tb_admin TO rizal
```

HASIL

The screenshot shows the MySQL Workbench interface for the 'tb_admin' table in the 'si_pembeliandistributor' database. The 'Privileges' tab is selected. A table lists users with their privileges, including the new 'DELETE' privilege for user 'rizal' on the 'tb_admin' table:

User name	Host name	Type	Privileges	Grant	Action
rizal	localhost	global	ALL PRIVILEGES	Yes	Edit privileges Export
rizal	%	table-specific	DELETE	No	Edit privileges Export
root	127.0.0.1	global	ALL PRIVILEGES	Yes	Edit privileges Export
root	::1	global	ALL PRIVILEGES	Yes	Edit privileges Export
root	localhost	global	ALL PRIVILEGES	Yes	Edit privileges Export

Buttons at the bottom include 'Check all' and 'With selected: Export'.

REVOKE (Whitnu Nastain)

The screenshot shows the 'Edit privileges' dialog for the user 'rizal'@'%'. The 'DELETE' checkbox is checked under the 'REFERENCES' column for the 'tb_admin' table. Other columns show 'None' for SELECT, INSERT, UPDATE, and REFERENCES.

The screenshot shows the SQL editor with the following command:

```
REVOKE DELETE ON tb_admin FROM rizal;
```

HASIL

The screenshot shows the 'Privileges' tab for the 'tb_admin' table. It lists users with access to the table:

User name	Host name	Type	Privileges	Grant	Action
rizal	localhost	global	ALL PRIVILEGES	Yes	Edit privileges Export
rizal	%	table-specific	USAGE	No	Edit privileges Export
root	127.0.0.1	global	ALL PRIVILEGES	Yes	Edit privileges Export
root	::1	global	ALL PRIVILEGES	Yes	Edit privileges Export
root	localhost	global	ALL PRIVILEGES	Yes	Edit privileges Export

TCL

COMMIT (KHRISNA YUDHA PRATAMA)

```
ca:~ Command Prompt - mysql -u root
Your MariaDB connection id is 90
Server version: 10.4.11-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)]> use si_pembeliandistributor
Database changed
```

Masuk ke aplikasi **MariaDB** menggunakan command prompt.

Lalu gunakan perintah

[use si_pembeliandistributor]

untuk masuk dan melakukan perubahan ke dalam database.

selanjutnya tampilkan table yang telah diisi sebelumnya menggunakan perintah

[select * from tb_admin;]

```
MariaDB [si_pembeliandistributor]> select * from tb_admin;
+-----+-----+-----+-----+-----+-----+
| id_admin | nama_admin | email_admin | password_admin | username_admin | nama_kacab |
+-----+-----+-----+-----+-----+-----+
|      1 | paijo     | paiojo@paijo | wadoawkda     | paijo          | kantor cabang paijo |
|      3 | rizal      | rizal@admin   | 1234          | rizalskuy      | samsung         |
|      4 | eldyan     | eldyan@admin | 123456        | admin_eldyan  | lenovo          |
|      5 | whitnu    | whitnu@admin | 12345123     | whitnu_admn  | XIAMOI         |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)
```

selanjutnya masukkan query untuk menambah data admin baru. pertama lakukan query

[start transaction;]

Query yang digunakan untuk menambah data

[insert into tb_admin values

```

-> ("","","khrisna","khrisna@admin","123123","adm_khrisna","Cab Bantul");
]

```

```

MariaDB [si_pembeliandistributor]> start transaction;
Query OK, 0 rows affected (0.000 sec)

MariaDB [si_pembeliandistributor]> insert into tb_admin values("", "khrisna", "khrisna@admin", "123123", "adm_khrisna", "Cab Bantul");
Query OK, 1 row affected, 1 warning (0.001 sec)

MariaDB [si_pembeliandistributor]> commit;
Query OK, 0 rows affected (0.111 sec)

MariaDB [si_pembeliandistributor]> select * from tb_admin;
+-----+-----+-----+-----+-----+-----+
| id_admin | nama_admin | email_admin | password_admin | username_admin | nama_kacab |
+-----+-----+-----+-----+-----+-----+
| 1 | paijo | paiojo@paijo | wadoawkda | paijo | kantor cabang paijo |
| 3 | rizal | rizal@admin | 1234 | rizalskuy | samsung |
| 4 | eldyan | eldyan@admin | 123456 | admin_eldyan | lenovo |
| 5 | whitnu | whitnu@admin | 12345123 | whitnu_admn | XIAMOI |
| 7 | khrisna | khrisna@admin | 123123 | adm_khrisna | Cab Bantul |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

Lalu masukan Query [**commit;**] untuk melakukan penyimpanan permanen ke database utama.

ROLLBACK (KHRISNA YUDHA PRATAMA)

```

[ca] Command Prompt - mysql -u root
Your MariaDB connection id is 90
Server version: 10.4.11-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)]> use si_pembeliandistributor
Database changed

```

Masuk ke aplikasi **MariaDB** menggunakan command prompt.

Lalu gunakan perintah

[use si_pembeliandistributor]

untuk masuk dan melakukan perubahan ke dalam database.

selanjutnya tampilkan table yang telah diisi sebelumnya menggunakan perintah

[select * from tb_admin;]

```

MariaDB [(none)]> use si_pembeliandistributor
Database changed
MariaDB [si_pembeliandistributor]> select * from tb_admin;
+-----+-----+-----+-----+-----+-----+
| id_admin | nama_admin | email_admin | password_admin | username_admin | nama_kacab |
+-----+-----+-----+-----+-----+-----+
| 1 | paijo | paiojo@paijo | wadoawkda | paijo | kantor cabang paijo |
| 3 | rizal | rizal@admin | 1234 | rizalskuy | samsung |
| 4 | eldyan | eldyan@admin | 123456 | admin_eldyan | lenovo |
| 5 | whitnu | whitnu@admin | 12345123 | whitnu_admn | XIAMOI |
| 7 | khrisna | khrisna@admin | 123123 | adm_khrisna | Cab Bantul |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

MariaDB [si_pembeliandistributor]>

```

selanjutnya masukkan query untuk menambah data admin baru. pertama lakukan query

[start transaction;]

lalu akan ditambahkan 2 values lagi.

```
Ex Command Prompt - mysql -u root
+-----+-----+-----+-----+
5 rows in set (0.000 sec)

MariaDB [si_pembeliandistributor]> start transaction;
Query OK, 0 rows affected (0.000 sec)

MariaDB [si_pembeliandistributor]> insert into tb_admin values("", "Alexandro", "Alex@adminmail.com", "12345", "Admin Alex", "Djeruk Inc");
Query OK, 1 row affected, 1 warning (0.001 sec)

MariaDB [si_pembeliandistributor]> insert into tb_admin values("", "Aurel", "AUL@adminmail.com", "1222225", "Admin Aul", "Apple Inc");
Query OK, 1 row affected, 1 warning (0.000 sec)

MariaDB [si_pembeliandistributor]> select * from tb_admin;
+-----+-----+-----+-----+-----+-----+
| id_admin | nama_admin | email_admin | password_admin | username_admin | nama_kacab |
+-----+-----+-----+-----+-----+-----+
| 1 | paijo | paijo@paijo | wadoawkda | paijo | kantor cabang paijo |
| 3 | rizal | rizal@admin | 1234 | rizalskuy | samsung |
| 4 | eldyan | eldyan@admin | 123456 | admin_eldyan | lenovo |
| 5 | whitnu | whitnu@admin | 12345123 | whitnu_admn | XIAMOI |
| 7 | khrisna | khrisna@admin | 123123 | adm_khrisna | Cab Bantul |
| 17 | Alexandro | Alex@adminmail.com | 12345 | Admin Alex | Djeruk Inc |
| 18 | Aurel | AUL@adminmail.com | 1222225 | Admin Aul | Apple Inc |
+-----+-----+-----+-----+-----+
7 rows in set (0.001 sec)
```

Karena terjadi kesalahan dalam database, akhirnya diperlukan rollback. query yang digunakan **[rollback;]**

```
MariaDB [si_pembeliandistributor]> rollback;
Query OK, 0 rows affected (0.113 sec)

MariaDB [si_pembeliandistributor]> select * from tb_admin;
+-----+-----+-----+-----+-----+-----+
| id_admin | nama_admin | email_admin | password_admin | username_admin | nama_kacab |
+-----+-----+-----+-----+-----+-----+
| 1 | paijo | paijo@paijo | wadoawkda | paijo | kantor cabang paijo |
| 3 | rizal | rizal@admin | 1234 | rizalskuy | samsung |
| 4 | eldyan | eldyan@admin | 123456 | admin_eldyan | lenovo |
| 5 | whitnu | whitnu@admin | 12345123 | whitnu_admn | XIAMOI |
| 7 | khrisna | khrisna@admin | 123123 | adm_khrisna | Cab Bantul |
+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [si_pembeliandistributor]> -
```

Sehingga data ter-rollback dan kembali ke awal saat setelah dilakukan commit database.

SAVEPOINT (KHRISNA YUDHA PRATAMA)

```
Command Prompt - mysql -u root

MariaDB [si_pembeliandistributor]> start transaction;
Query OK, 0 rows affected (0.000 sec)

MariaDB [si_pembeliandistributor]> delete from tb_admin where nama_admin = "paijo";
Query OK, 1 row affected (0.031 sec)

MariaDB [si_pembeliandistributor]> insert into tb_admin values("", "OWNER", "owner@own", "sayaowner", "Owner", "All");
Query OK, 1 row affected, 1 warning (0.001 sec)

MariaDB [si_pembeliandistributor]> savepoint A;
Query OK, 0 rows affected (0.000 sec)

MariaDB [si_pembeliandistributor]> select * from tb_admin;
+-----+-----+-----+-----+-----+
| id_admin | nama_admin | email_admin | password_admin | username_admin | nama_kacab |
+-----+-----+-----+-----+-----+
|      3 | rizal     | rizal@admin | 1234           | rizalskuy       | samsung      |
|      4 | eldyan    | eldyan@admin | 123456         | admin_eldyan   | lenovo        |
|      5 | whitnu   | whitnu@admin | 12345123      | whitnu_admn   | XIAMOI        |
|      7 | khrisna  | khrisna@admin | 123123        | adm_khrisna   | Cab Bantul   |
|     19 | OWNER     | owner@own   | sayaowner     | Owner          | All           |
+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

[Savepoint A] : perubahan yang dilakukan (menghapus admin paijo, menambah admin OWNER).

```
Command Prompt - mysql -u root

MariaDB [si_pembeliandistributor]> update tb_admin nama_admin="Pemilik" where nama_admin="OWNER";
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB
where nama_admin="OWNER" at line 1
MariaDB [si_pembeliandistributor]> update tb_admin SET nama_admin="Pemilik" where nama_admin="OWNER";
Query OK, 1 row affected (0.070 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [si_pembeliandistributor]> savepoint B;
Query OK, 0 rows affected (0.000 sec)

MariaDB [si_pembeliandistributor]> select * from tb_admin;
+-----+-----+-----+-----+-----+
| id_admin | nama_admin | email_admin | password_admin | username_admin | nama_kacab |
+-----+-----+-----+-----+-----+
|      3 | rizal     | rizal@admin | 1234           | rizalskuy       | samsung      |
|      4 | eldyan    | eldyan@admin | 123456         | admin_eldyan   | lenovo        |
|      5 | whitnu   | whitnu@admin | 12345123      | whitnu_admn   | XIAMOI        |
|      7 | khrisna  | khrisna@admin | 123123        | adm_khrisna   | Cab Bantul   |
|     19 | Pemilik   | owner@own   | sayaowner     | Owner          | All           |
+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

[Savepoint B]: perubahan pada nama_admin untuk admin Owner

```
MariaDB [si_pembeliandistributor]> delete from tb_admin where id_admin = "19";
Query OK, 1 row affected (0.159 sec)

MariaDB [si_pembeliandistributor]> rollback to B;
Query OK, 0 rows affected (0.023 sec)

MariaDB [si_pembeliandistributor]> select * from tb_admin;
+-----+-----+-----+-----+-----+-----+
| id_admin | nama_admin | email_admin | password_admin | username_admin | nama_kacab |
+-----+-----+-----+-----+-----+-----+
|      3 | rizal     | rizal@admin | 1234           | rizalskuy       | samsung      |
|      4 | eldyan    | eldyan@admin | 123456         | admin_eldyan   | lenovo        |
|      5 | whitnu   | whitnu@admin | 12345123      | whitnu_admn   | XIAMOI       |
|      7 | khrisna  | khrisna@admin | 123123         | adm_khrisna   | Cab Bantul   |
|     19 | Pemilik   | owner@own    | sayaowner      | Owner          | All           |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

MariaDB [si_pembeliandistributor]> -
```

Perubahan terakhir terjadi kesalahan. jadi database memerlukan rollback.
Karena sebelumnya telah melakukan savepoint, yaitu membuat titik sementara untuk rollback. Hasilnya rollback yang dilakukan tidak begitu jauh.