

SISTEM INFORMASI ABSENSI KARYAWAN



Disusun Oleh :

5200411063 – Rheznandya Refan S

5200411188 - Tarsono

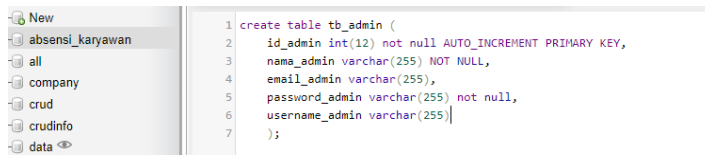
5200411302 – Bagus Satria Tri Wicaksana

5200411344 – Rizki Hidayat

1. DDL

- Create (Tarsono)

Perintahnya seperti ini

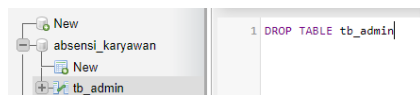


Maka hasilnya akan seperti ini

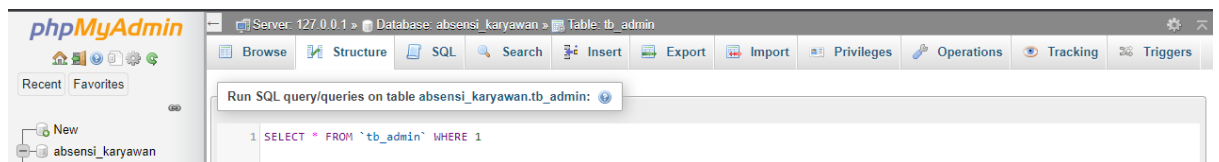
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_admin	int(12)			No	None		AUTO_INCREMENT	Change Drop More
2	nama_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
3	email_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	password_admin	varchar(255)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

- Drop

Perintahnya seperti ini



Setelah melakukan perintah drop maka tb_admin akan terhapus tapi tidak dengan databasenya yaitu absensi_karyawan



- Alter

1. Menambahkan kolom email_admin pada tb_admin

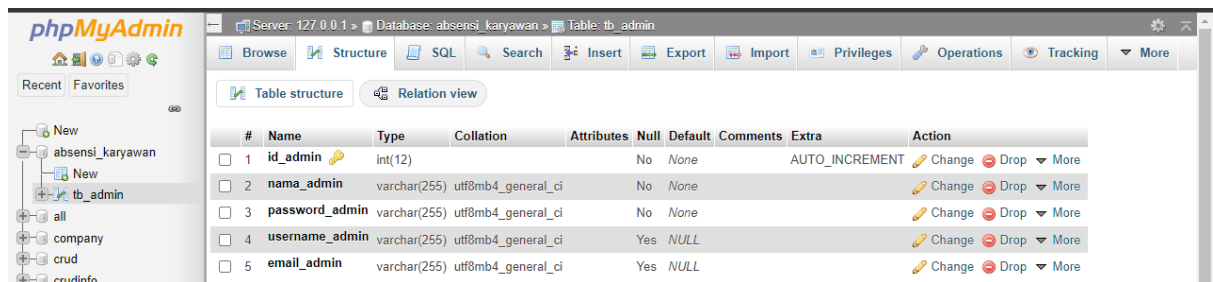
Tampilan awal mulanya seperti ini

#	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	password_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
4	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Pada saat menambahkan email_admin di table tb_admin



Hasil setelah menambahkan email_admin



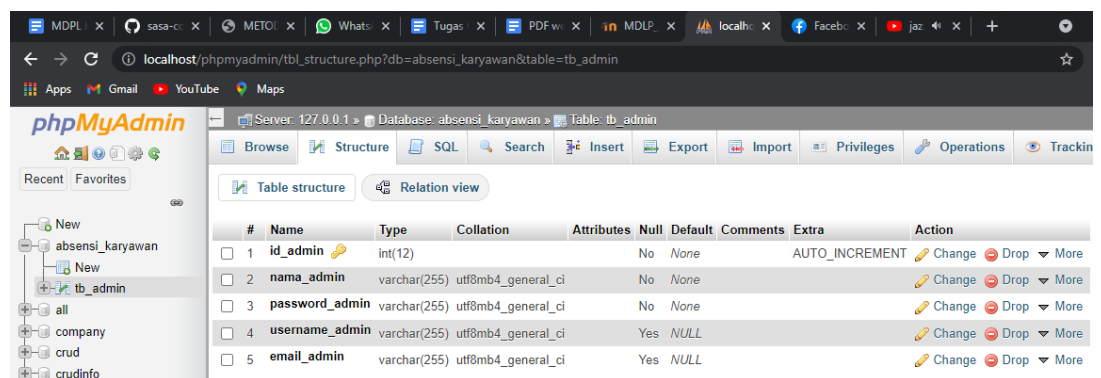
Server: 127.0.0.1 Database: absensi_karyawan Table: tb_admin

Table structure

#	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	password_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
4	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
5	email_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

2. Menghapus kolom email_admin pada tb_admin

Tampilan pada saat email_admin belum dihapus dari tb_admin

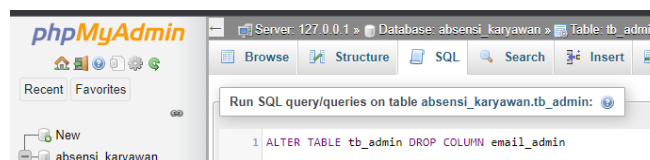


Server: 127.0.0.1 Database: absensi_karyawan Table: tb_admin

Table structure

#	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	password_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
4	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
5	email_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Pada saat proses penghapusan email_admin

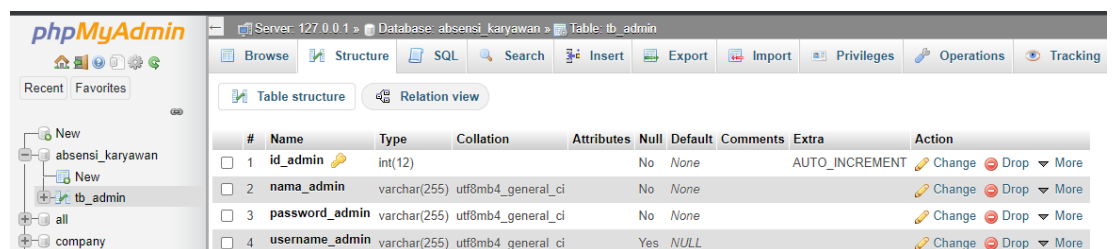


Server: 127.0.0.1 Database: absensi_karyawan Table: tb_admin

Run SQL query/queries on table absensi_karyawan.tb_admin:

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

Tampilan setelah menjalankan proses diatas



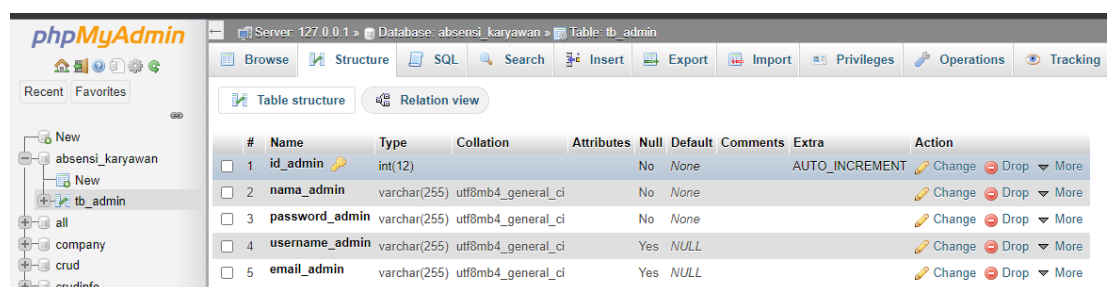
Server: 127.0.0.1 Database: absensi_karyawan Table: tb_admin

Table structure

#	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	password_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
4	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

3. Modifikasi kolom password_admin pada tb_admin

Tampilan pada saat password_admin belum dimodifikasi

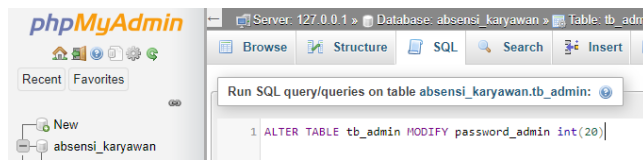


Server: 127.0.0.1 Database: absensi_karyawan Table: tb_admin

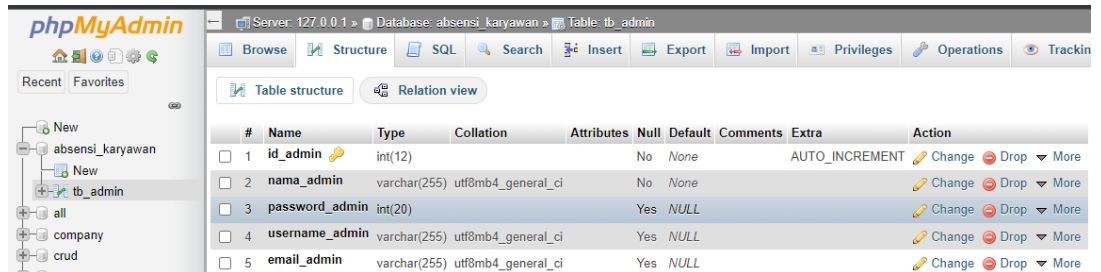
Table structure

#	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	password_admin	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
4	username_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
5	email_admin	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Pada saat proses modifikasi password_admin

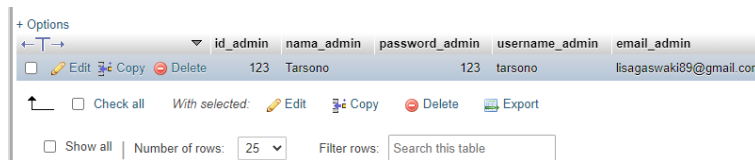


Setelah melakukan proses modifikasi

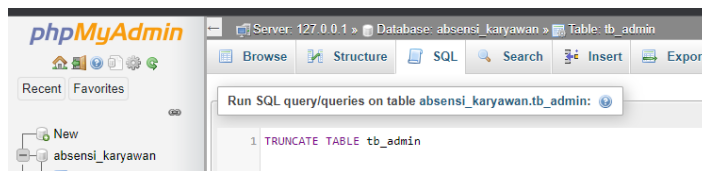


4. Truncate

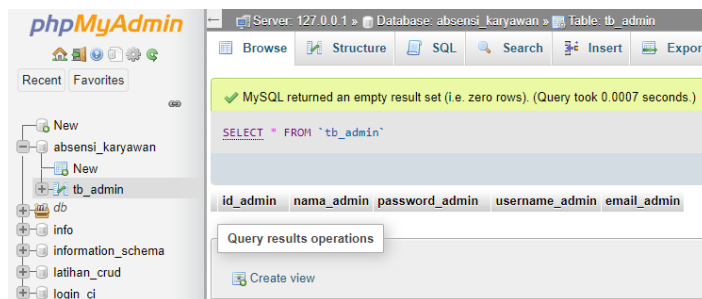
Sebelum



Pada saat proses

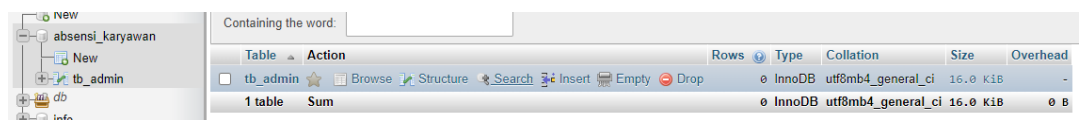


Hasilnya seperti ini

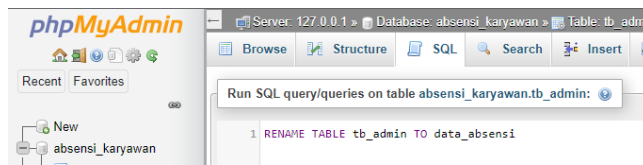


5. Rename

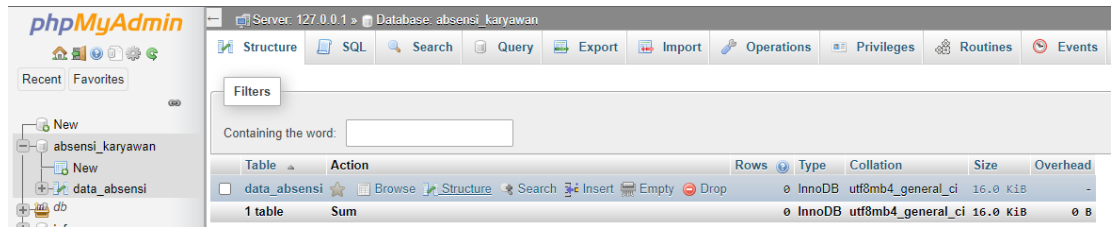
Sebelum



Tampilan pada saat rename



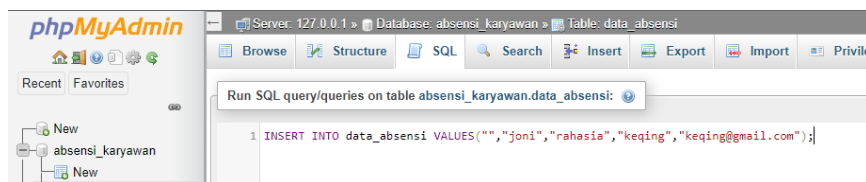
Setelah melakukan proses rename



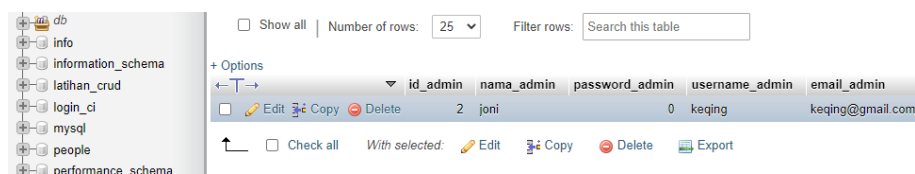
2. DML

1. Insert

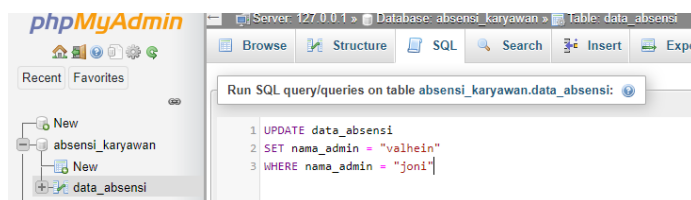
query nya seperti ini



Hasilnya



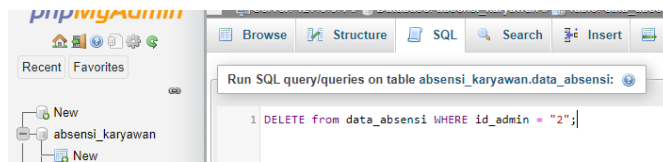
2. Update



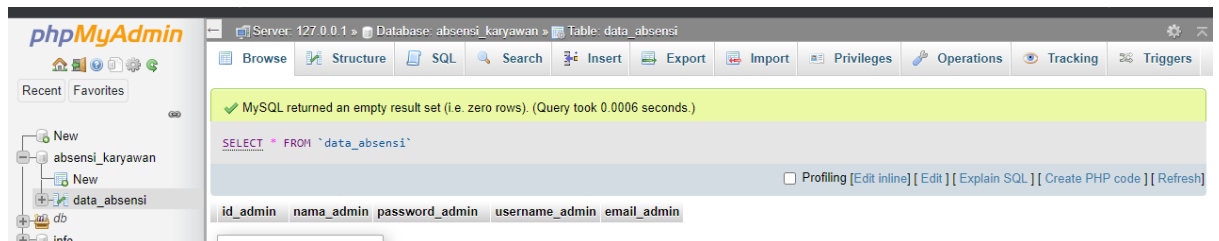
Hasilnya



3. Delete

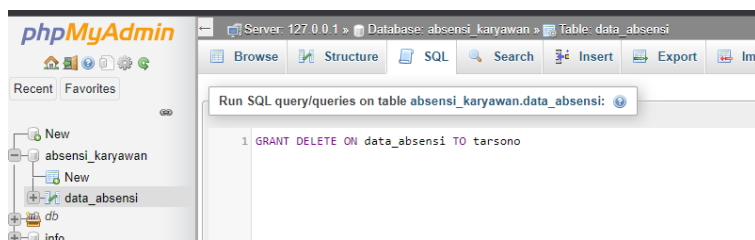


Hasilnya maka use yg kita buat tadi akan terhaous seprti gambar dibawah ini

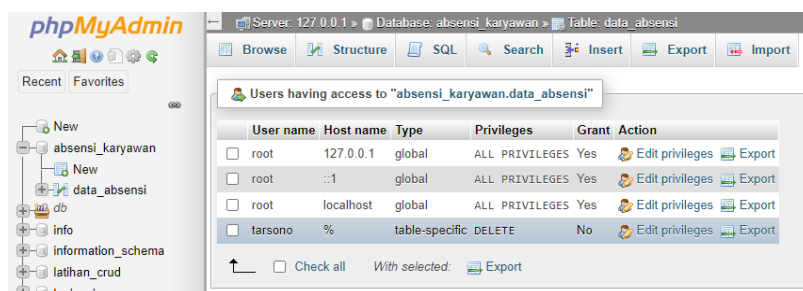


3. DCL

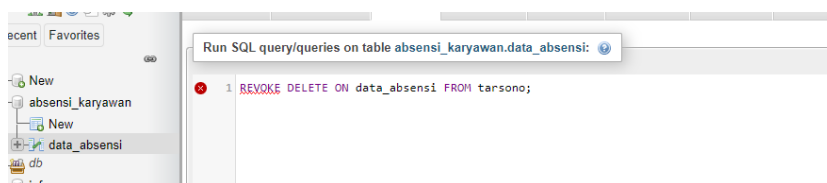
1. Grant



Hasilnya



2. Revoke

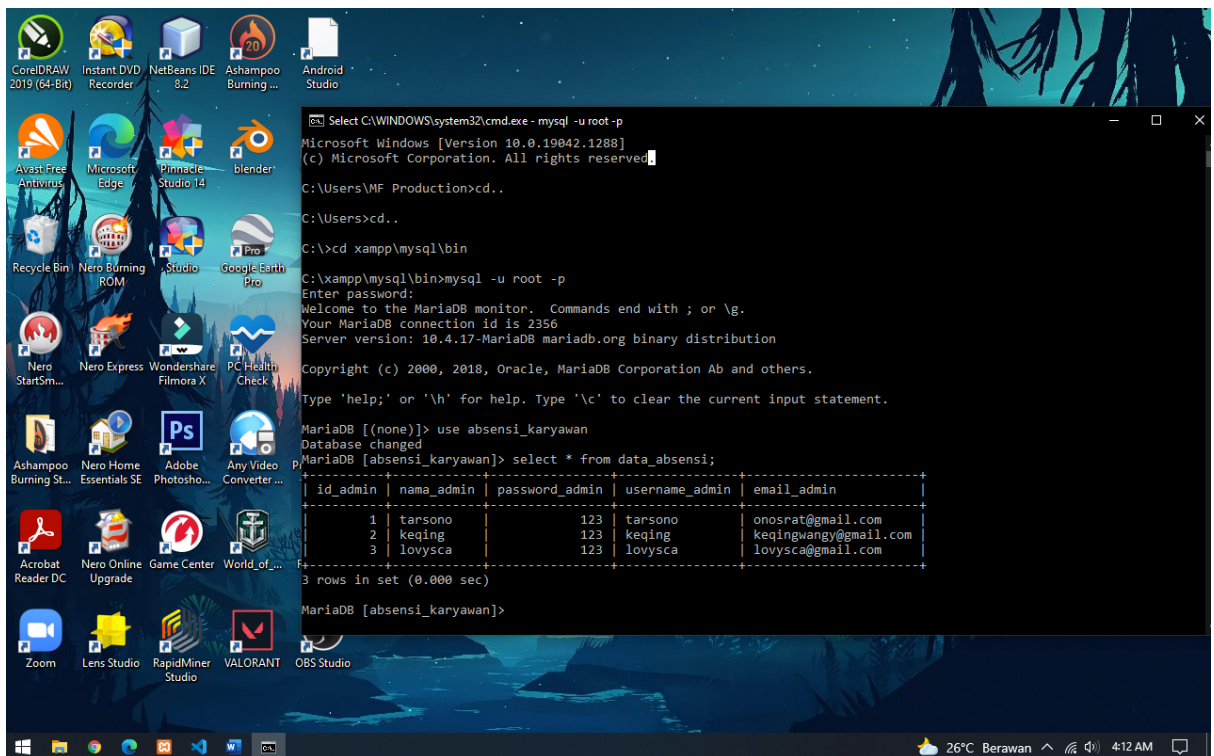


4. TCL

1. Commit

Masuk ke MariaDB menggunakan command prompt(cmd), kemudian untuk masuk ke database absesni_karyawan gunakan query

("use absensi_karyawan"), untuk melihat isi tabel yang sudah dibuat gunakan query ("select * from data_absensi;").



```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.19042.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\WF Production>cd..
C:\Users>cd..
C:\>cd xampp\mysql\bin
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 2356
Server version: 10.4.17-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

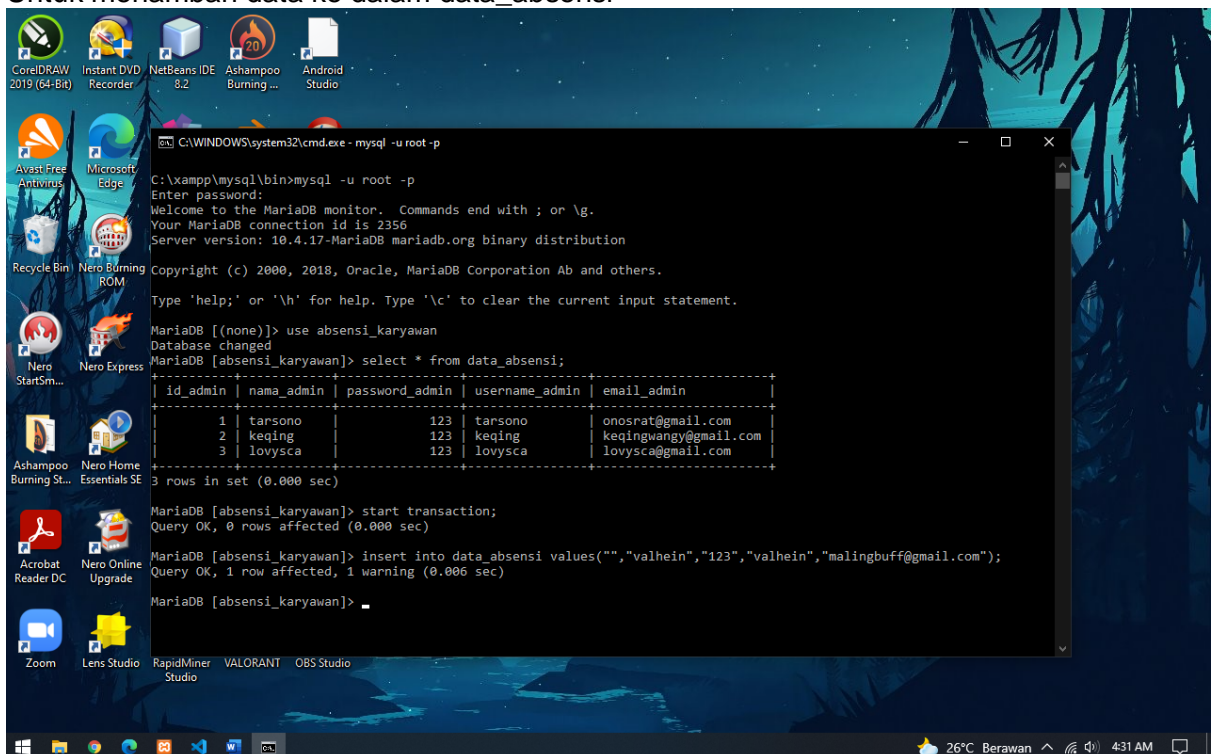
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use absensi_karyawan
Database changed
MariaDB [absensi_karyawan]> select * from data_absensi;
+-----+-----+-----+-----+-----+
| id_admin | nama_admin | password_admin | username_admin | email_admin |
+-----+-----+-----+-----+-----+
| 1 | tarsono | 123 | tarsono | onosrat@gmail.com |
| 2 | keqing | 123 | keqing | keqingwangy@gmail.com |
| 3 | lovysca | 123 | lovysca | lovysca@gmail.com |
+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)

MariaDB [absensi_karyawan]>
```

Selanjutnya untuk menambahkan data admin baru, gunakan query ("start transaction;"), lalu gunakan query

(insert into data_absensi values("", "valhein", "123", "valhein", "malingbuf@gmail.com");
Untuk menambah data ke dalam data_absensi



```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
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 2356
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.

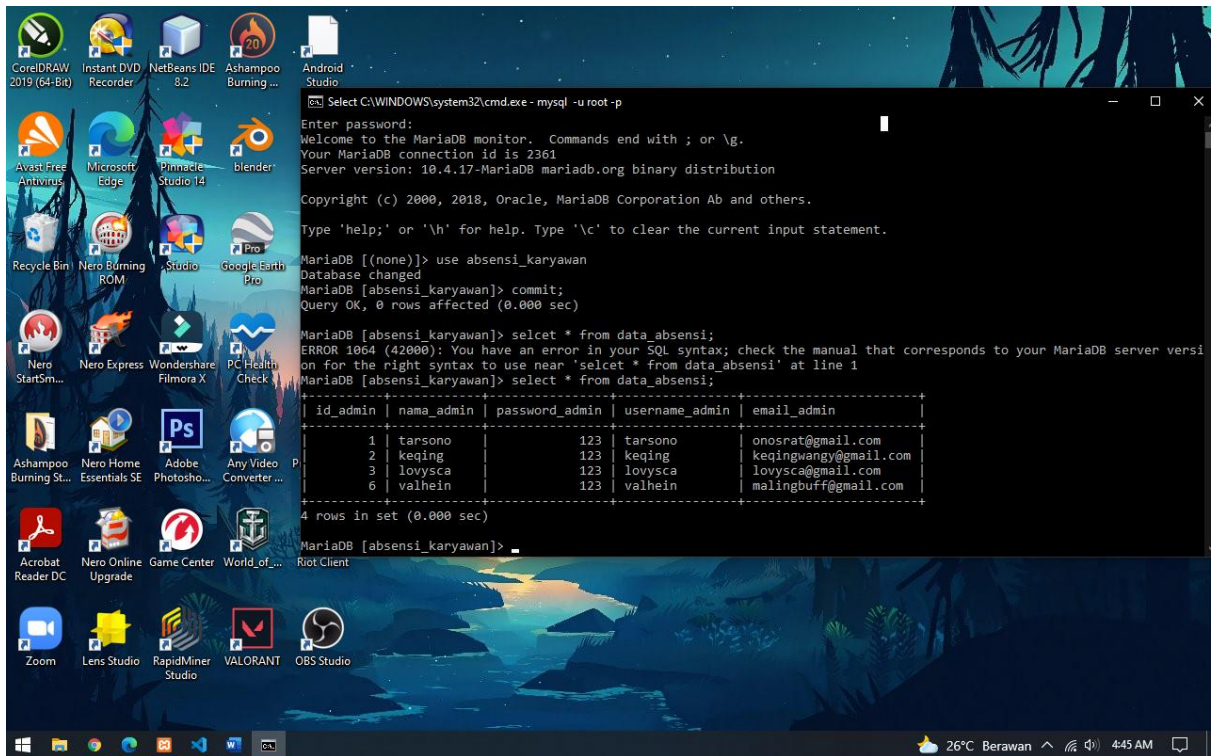
MariaDB [(none)]> use absensi_karyawan
Database changed
MariaDB [absensi_karyawan]> select * from data_absensi;
+-----+-----+-----+-----+-----+
| id_admin | nama_admin | password_admin | username_admin | email_admin |
+-----+-----+-----+-----+-----+
| 1 | tarsono | 123 | tarsono | onosrat@gmail.com |
| 2 | keqing | 123 | keqing | keqingwangy@gmail.com |
| 3 | lovysca | 123 | lovysca | lovysca@gmail.com |
+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)

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

MariaDB [absensi_karyawan]> insert into data_absensi values("", "valhein", "123", "valhein", "malingbuff@gmail.com");
Query OK, 1 row affected, 1 warning (0.006 sec)

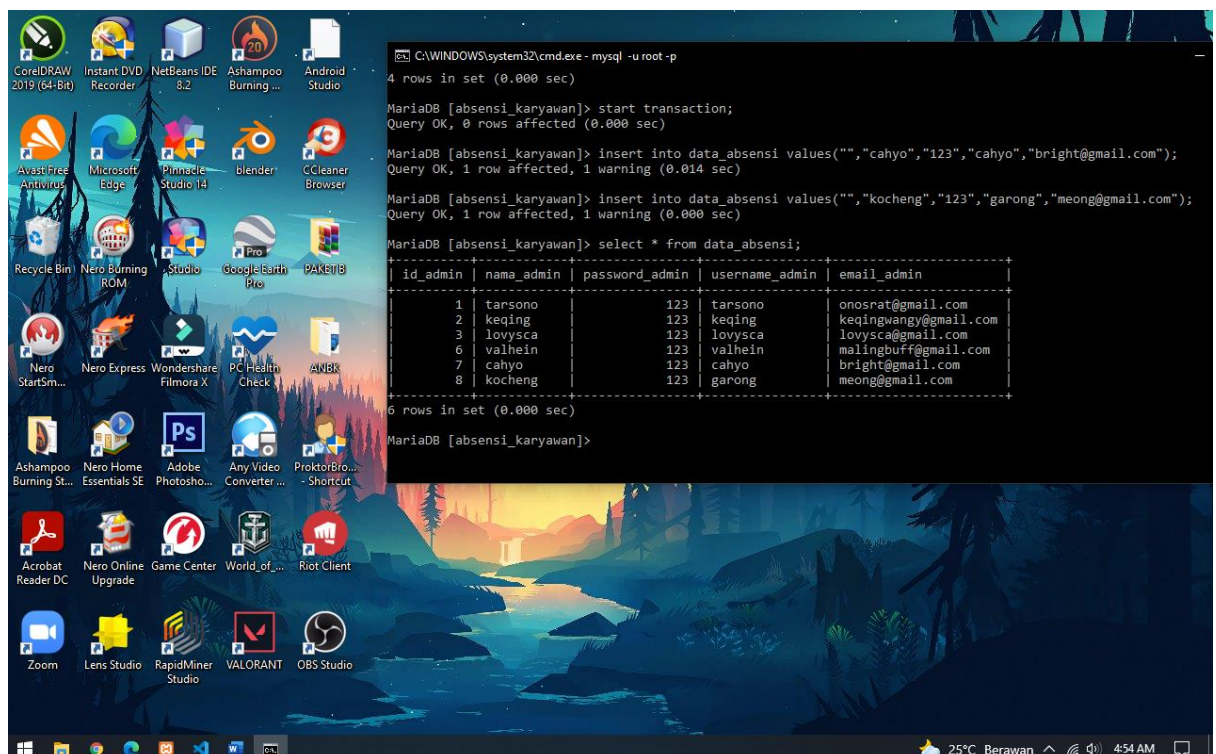
MariaDB [absensi_karyawan]>
```


Maka hasilnya akan seperti ini

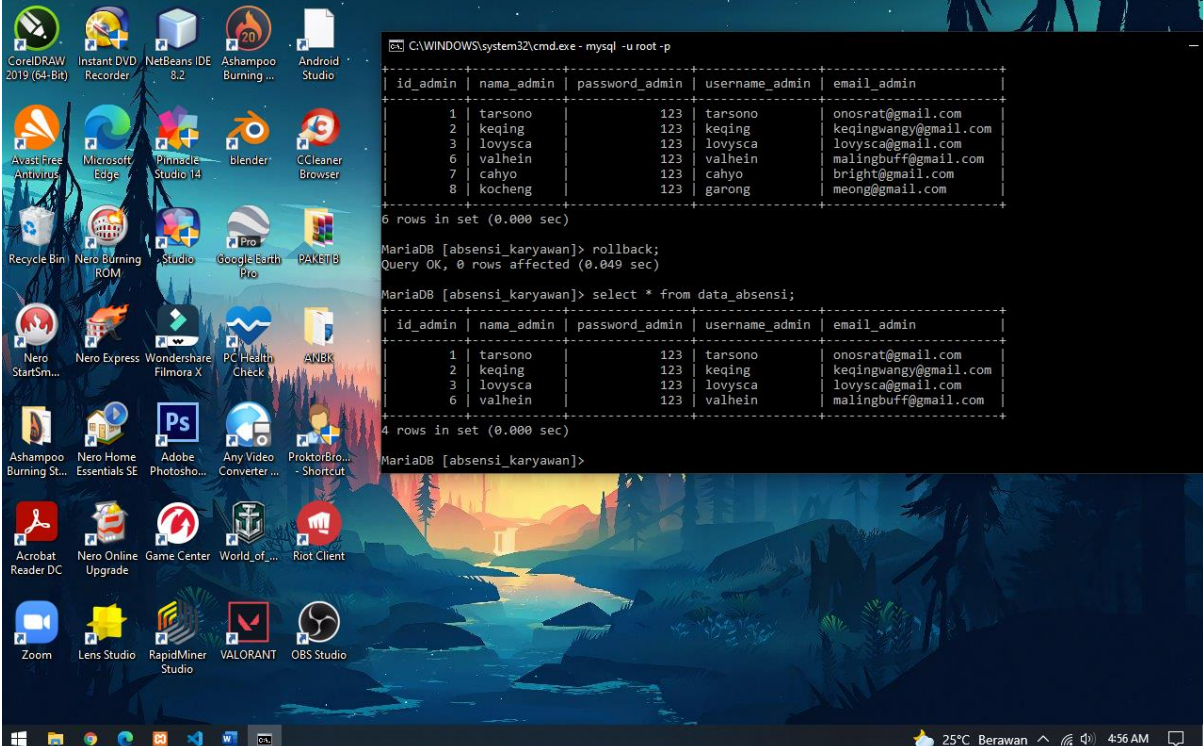


2. Rollback

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



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



The screenshot shows a Windows 10 desktop environment. A command prompt window is open, running MySQL. The prompt shows the command `mysql -u root -p` and the resulting tables. The first table, `data_admin`, contains 6 rows. The second table, `data_absensi`, contains 4 rows. The command `rollback;` was executed, and the output shows "Query OK, 0 rows affected (0.049 sec)".

Command prompt output:

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
```

id_admin	nama_admin	password_admin	username_admin	email_admin
1	tarsono	123	tarsono	onosrat@gmail.com
2	keqing	123	keqing	keqingwangy@gmail.com
3	lovysca	123	lovysca	lovysca@gmail.com
6	valhein	123	valhein	malingbuff@gmail.com
7	cahyo	123	cahyo	bright@gmail.com
8	kocheng	123	garong	meong@gmail.com

6 rows in set (0.000 sec)

```
MariaDB [absensi_karyawan]> rollback;
```

Query OK, 0 rows affected (0.049 sec)

```
MariaDB [absensi_karyawan]> select * from data_absensi;
```

id_admin	nama_admin	password_admin	username_admin	email_admin
1	tarsono	123	tarsono	onosrat@gmail.com
2	keqing	123	keqing	keqingwangy@gmail.com
3	lovysca	123	lovysca	lovysca@gmail.com
6	valhein	123	valhein	malingbuff@gmail.com

4 rows in set (0.000 sec)

```
MariaDB [absensi_karyawan]>
```