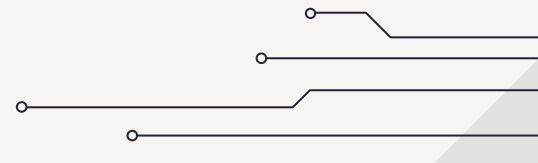




# **Portfolio SQL DANA Sentiment Analysis**

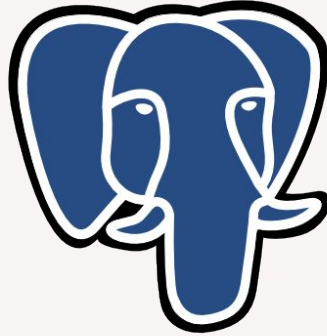
By : Johan Sanjaya



# TOOLS



Excel



PostgreSQL



GitHub




## **SOURCE DATA**



kaggle<sup>TM</sup>

# DATA


- The topic to be worked on is “DANA Sentiment Analysis from Playstore Indonesia”
- The dataset is downloaded from web : [LINK](#)

 ALEX MARIO SIMANJUNTAK · UPDATED A MONTH AGO

1

New Notebook

Download (2 MB)



[Data Card](#) [Code \(0\)](#) [Discussion \(0\)](#) [Suggestions \(0\)](#)

### About Dataset

50k labeled DANA App Reviews, scrapped from Google Playstore Indonesia.

The data contains 5 columns :

1. UserName
2. score
3. at
4. content
5. sentimen

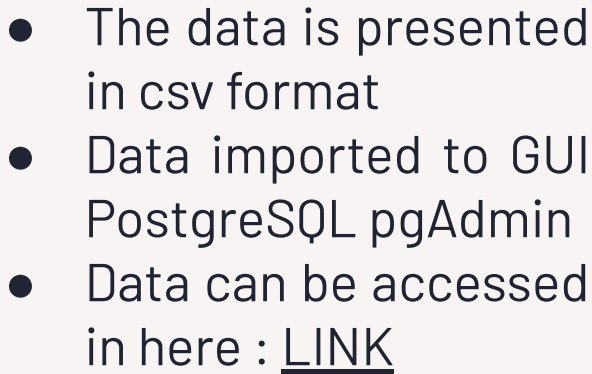
**Usability** ⓘ  
3.53

**License**  
Unknown

**Expected update frequency**  
Not specified

**Tags**

- The data is presented in csv format
- Data imported to GUI PostgreSQL pgAdmin
- Data can be accessed in here : [LINK](#)



[LINK GITHUB](#)

# PGADMIN DISPLAY

pgAdmin 4

File Object Tools Help

Object Explorer

- FTS Dictionaries
- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (1)
  - review\_dana
    - Columns (7)
      - user\_name
      - score
      - content
      - sentimen
      - date
      - month\_name
      - year
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- Trigger Functions
- Types
- Views
- Subscriptions
- Login/Group Roles
- Tablespaces
- PostgreSQL 16

Dashboard Processes review\_dana\_query.sql

review\_dana/postgres@Local

No limit

Query Query History Scratch Pad

```
1 create table review_dana(  
2 User_name CHAR,  
3 Score INT,  
4 Content CHAR,  
5 Sentimen CHAR,  
6 Date date,  
7 Month_name CHAR,  
8 Year INT  
9 );  
10  
11 alter table review_dana alter column user_name type VARCHAR (300);  
12  
13 alter table review_dana alter column content type VARCHAR (1000);  
14  
15 alter table review_dana alter column sentimen type VARCHAR (300);
```

Data Output Messages Notifications

	user_name character varying (300)	score integer	content character varying (1000)
1	Elisya Kasni	5	Bagus
2	Rusman Man	2	Dana mmg keren mantap.
3	Qiliw Sadega	1	Saya ngajuin upgrade dana premium krna ktp saya buram jdi ga bisa verifikasi .trus coba lewat email di suruh nunggu 3 hri .ini udh 3 hri lebih
4	Kijutrv2 Kijut	3	Kocak mana diskon nya ml malah eror segala kaga ikhlas ngasih diskon nya
5	Fifi Alfiyah	1	Saldo hilang karena no lama Hilang ganti no saldonya gk ada sama sekali dana tidak bertanggung jawab Buktinya saldo saya gk ada !!! Saldo
6	Kiki57	3	mayan
7	Parhan Parhan	1	Udah gua hapus dana ya. ilang ya udah 1 juta lebih duwit gua.mf dana sayah buka orang kaya itu uang keringat sayah uang halal
8	Dewi Anggreni	5	baik

Total rows: 1000 of 50000 Query complete 00:00:00.163 Ln 20, Col 1

# QUERIES

1. Viewing all data
  - a. This query is to view all data.
  - b. The data contains 50000 rows

The screenshot shows the pgAdmin 4 interface with a SQL query executed. The query is as follows:

```
--View all data
select
*
from review_dana;

--Counting how many reviewers in total
select
count(*) as count_user
```

The results are displayed in a table with the following columns: `user_name` (character varying (300)), `score` (integer), and `content` (character varying (1000)). The table contains 14 rows of data, showing user names, scores, and their reviews.

	user_name	score	content
1	Elisya Kasni	5	Bagus
2	Rusman Man	2	Dana ming keren mantap.
3	Qiliw Sadega	1	Saya ngajuin upgrade dana premium kna ktp saya buram jdi ga bisa verifikasi.. trus coba lewat email di suruh nunggu 3 hri .ini udh 3 hri lebih msih gitu* doang s
4	Kijutjr2 Kijut	3	Kocak mana diskon nya ml malah eror segala kaga ikhlas ngasih diskon nya
5	Fifi Alfiyah	1	Saldo hilang karena no lama Hilang ganti no saldonya gk ada sama sekali dana tidak bertanggung jawab Buktinya saldo saya gk ada !!! Saldo lama saya 1800.00
6	Kiki57	3	mayan
7	Parhan Parhan	1	Udah gua hapus dana ya. ilang ya udah 1 juta lebih duwit gua.mf dana sayaah buka orang kaya itu uang keringat sayah uang halal
8	Dewi Anggreni	5	baik
9	Bang Ewok13	1	TOLONG UNTUK SISTEM KEAMANAN DI PERBAIKI. KALAU 1 ATAU 2 ORNG YG KE HACK WAJAR, MUNGKIN KETELEDORAN PENGGUNA. TAPI KALAU SUDAH B
10	M Alifian	5	mempermudah transfer
11	DIDIK QU	5	baru yobain semoga aman sentosa tidak pembobolan apk sebelah
12	Liaz Tahajudin	4	kok gx bisa keridit
13	Chinju Nuriya	5	sangat puas
14	Miliah 343	5	sangat memuaskan

Total rows: 1000 of 50000 Query complete 00:00:00.161 Ln 19, Col 1

# QUERIES

## 2. Counting how many reviewers in total

The screenshot shows a database query editor interface. The top bar includes tabs for 'Dashboard', 'Processes', and 'review\_dana\_query.sql'. Below the tabs, the connection is 'review\_dana/postgres@Local'. The query editor shows a SQL query to count the number of reviewers in total. The query is as follows:

```
--Counting how many reviewers in total
select
count(*) as count_user
from
review_dana;
```

The query history tab is active, showing the query. Below the query editor, the 'Data Output' tab is active, displaying the results of the query. The results are shown in a table with one column, 'count\_user', and one row with the value 50000.

count_user
50000

## 3. Counting how many user\_name in every year

The screenshot shows a database query editor interface. The top bar includes tabs for 'Dashboard', 'Processes', and 'review\_dana\_query.sql'. Below the tabs, the connection is 'review\_dana/postgres@Local'. The query editor shows a SQL query to count the number of user\_name in every year. The query is as follows:

```
--Counting how many user_name in every year
select
year,
count(*) as count_users
from
review_dana
group by 1;
```

The query history tab is active, showing the query. Below the query editor, the 'Data Output' tab is active, displaying the results of the query. The results are shown in a table with two columns, 'year' and 'count\_users', and two rows of data.

	year	count_users
1	2024	49775
2	2023	225



# QUERIES

## 4. Finding for score percentage in 2024

Dashboard × Processes × review\_dana\_query.sql ×

review\_dana/postgres@Local

No limit

Query Query History

```
38 --Finding for score percentage in 2024
39 select
40 score,
41 count(*) as count_users,
42 round(100*count(*)/sum(count(*) over(),2) || '%' as percentage
43 from
44 review_dana
45 where year=2024
46 group by 1
47 order by 1 desc;
48
```

Data Output Messages Notifications

	score integer	count_users bigint	percentage text
1	5	28921	58.10%
2	4	4026	8.09%
3	3	2564	5.15%
4	2	2041	4.10%
5	1	12223	24.56%

## 5. Finding how many user and percentage in every sentimen and every year

Dashboard × Processes × review\_dana\_query.sql ×

review\_dana/postgres@Local

No limit

Query Query History


```
49 --Finding how many user and percentage in every sentimen and every year
50 select
51 year,
52 sentimen,
53 count(*) as count_users,
54 round(100*count(*)/sum(count(*) over(),2) || '%' as percentage
55 from
56 review_dana
57 group by 1,2
58 order by 1,3 asc;
```

Data Output Messages Notifications

	year integer	sentimen character varying (300)	count_users bigint	percentage text
1	2023	NEUTRAL	32	0.06%
2	2023	NEGATIVE	75	0.15%
3	2023	POSITIVE	118	0.24%
4	2024	NEUTRAL	6340	12.68%
5	2024	NEGATIVE	16998	34.00%
6	2024	POSITIVE	26437	52.87%



# QUERIES THAT IMPLEMENTED

1. **SELECT** : retrieve data from table
  2. **COUNT** : aggregate function to get number of rows with specific condition
  3. **ROUND** : round numeric value
  4. **OVER** : execute aggregate inside aggregate queries
  5. **ORDER BY** : sort data ascending/descending
  6. **GROUP BY** : aggregate same values into summary rows
- 



# CONCLUSION

1. Data can be analyzed using query SQL, the data contains 50.000 rows
2. There are 225 reviewers in 2023, 49.775 reviewers in 2024
3. There are more than half of the total reviewers give 5 score rating (58.1%) in 2024, and overall give positive sentiment (52.87%)

The slide features a light gray background with decorative elements in the corners. The top-left corner has a gray triangle and four horizontal lines of varying lengths, each ending in a small circle. The top-right corner has a blue triangle. The bottom-left corner has a blue triangle and a gray triangle. The bottom-right corner has a gray triangle.

**THANK YOU**