



MINI PROJECT ANALYZING DATA

Irman Maulana Pamungkas





INDONESIA'S COVID-19 DISTRIBUTION IN 2020-2021

From this dataset, I'm defining the problems from dataset by looking for which one of the data are genuinely important to be discussed or described.

Field name	Type	Mode
Date	DATE	NULLABLE
Province	STRING	NULLABLE
Daily_Case	INTEGER	NULLABLE
Daily_Death	INTEGER	NULLABLE
Daily_Recovered	INTEGER	NULLABLE
Active_Case	INTEGER	NULLABLE
Cumulative_Case	INTEGER	NULLABLE
Cumulative_Recovered	INTEGER	NULLABLE
Cumulative_Death	INTEGER	NULLABLE
Cumulative_Active_Case	INTEGER	NULLABLE



ABOUT DATASET

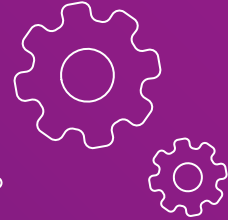
Indonesia Coronavirus daily data Columns Description:

- Date: Means the Date of Observation
 - Province: Means Location/ Province which the data was observed
 - Daily_Case: Means Daily new number of confirmed case in observed province
 - Daily_Death: Means Daily new number of confirmed death in observed province
 - Daily_Recovered: Means Daily new number of confirmed recover in observed province
 - Active_Case: Means Daily new number of active case such as isolated or threatened in hospital (still didnt recover nor die)
 - Cumulative_Case: Means total for each day number number of confirmed case of the row's date, for the row's province
 - Cumulative_Recovered: Means total for each day number number of confirmed Recover of the row's date, for the row's province
 - Cumulative_Death: Means total for each day number of confirmed death of the row's date, for the row's province
 - Cumulative_Active_Case: Means total for each day number of active case of the row's date, for the row's province
-

THE PROBLEM QUESTIONS:

After looking for which data that are genuinely interesting to be discussed, then I breakdown the problem questions. So, here's the problem questions I've found:

1. How the distribution of Covid-19 in Indonesia from 2020-2021?
2. How the description of Covid-19 cases in Indonesia day by day from 2020-2021?
3. How the image of Covid-19 daily case in every Indonesia's provinces?
4. How the data present about Covid-19 case in Indonesia in every aspect such as case, death, and recovered from 2020-2021?
5. How the relations between death and recovered of Covid-19 cases in Indonesia?





MENU

ANALYSIS

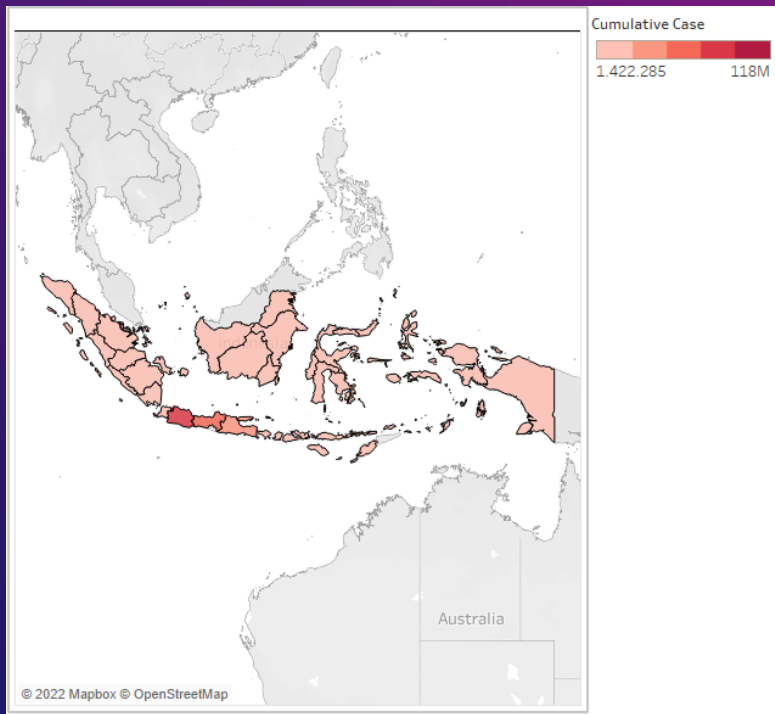
CONTACT

DATA ANALYSIS

DATA VISUALIZATION



1. THE DISTRIBUTION OF COVID-19 IN INDONESIA IN 2020-2021



Here's the SQL Query to find the data from dataset:

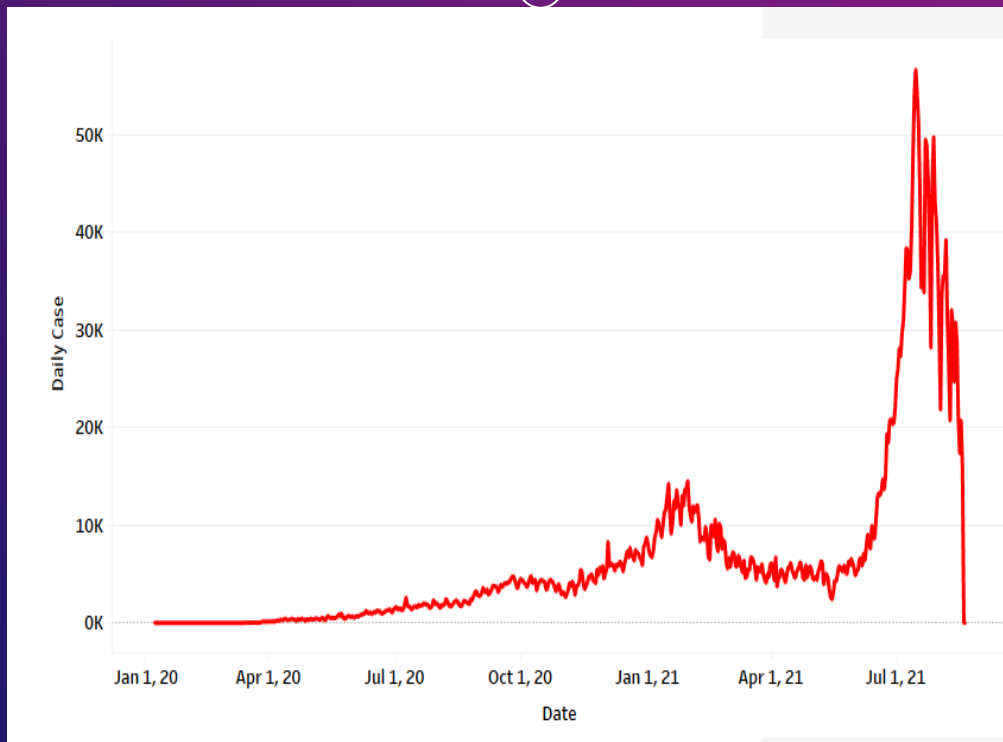
```
1 SELECT
2     Province,
3     SUM(Cumulative_Case),
4     SUM(Cumulative_Death)
5 FROM `irman-latihan-1.project_data_analyst10021206.covid19_indo`
6 GROUP BY Province;
```

Here's the finding present of how the distribution of Covid-19 in Indonesia throughout 2020-2021. I'm using the map chart because I used Province data, Cumulative Case, and Cumulative Death to looking for how the distribution and it makes clear how the distribution is it in every Indonesia's provinces. This finding presents that every provinces in Indonesia has Covid-19 cases, and DKI Jakarta Province has the most Cumulative Covid-19 cases throughout 2020-2021 with 117.633.477 cases and 1.978.802 death cases.





2. THE DESCRIPTION OF COVID-19 CASES IN INDONESIA DAY BY DAY FROM 2020-2021



Here's the SQL Query to find the required data from dataset:

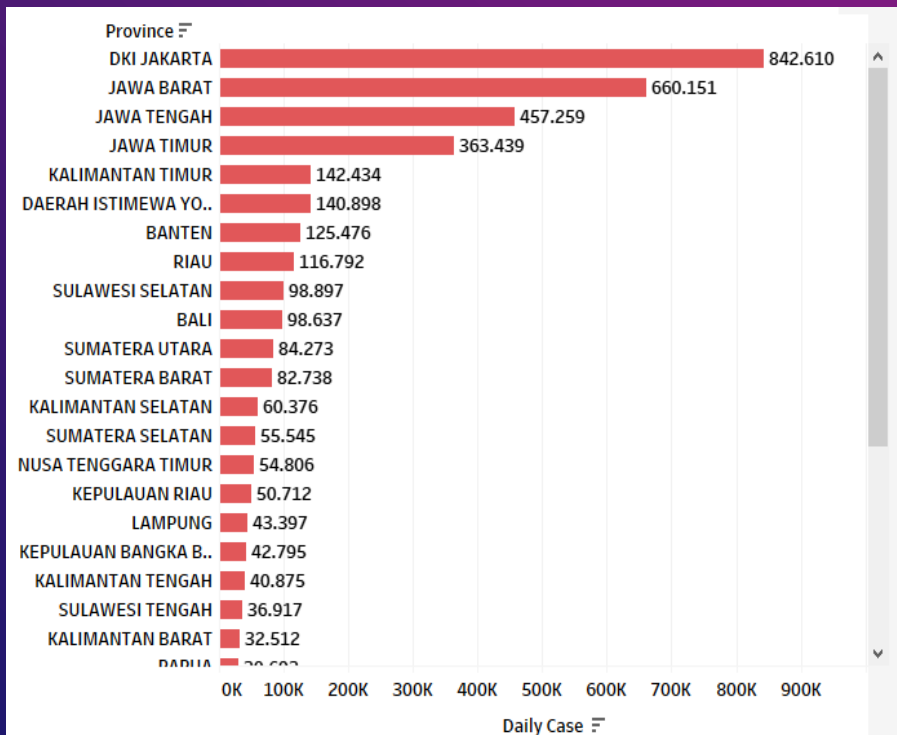
```
1 SELECT
2     Date,
3     SUM(Daily_Case)
4 FROM `irman-latihan-1.project_data_analyst10021206.covid19_indo`
5 GROUP BY Date;
```

Here's the second one. I'm using the lines chart because I would like to find the daily case of Covid-19 in Indonesia day by day and it requires time spans variable to make this chart. This finding show that in early 2020 were not many case and start to increase in early 2021 when there was a Nataru's holiday. The most daily cases of Covid-19 in Indonesia happened on 15th of July 2021 with 56.694 cases.





3. THE IMAGE OF COVID-19 DAILY CASE IN EVERY INDONESIA'S PROVINCES



Here's the SQL Query to find the required data from dataset:

```
1 SELECT
2     Province,
3     SUM(Daily_Case)
4 FROM `irman-latihan-1.project_data_analyst10021206.covid19_indo`
5 GROUP BY Province;
```

The third one of finding present shows about the total of daily cases of Covid-19 in every provinces. I'm using bar chart to find the total of daily cases of Covid-19 in Indonesia based on provinces. This chart order by the total daily case to find daily cases in provinces from highest to lowest. So it shows that DKI Jakarta Province has the most total daily cases, West Java as the second, Central Java follows as third, and so on.



4. THE DATA PRESENT ABOUT COVID-19 CASE IN INDONESIA ON CUMULATIVE OF CASE, DEATH, AND RECOVERED FROM 2020-2021

481.467.054
Cumulative Case

13.939.996
Cumulative Death

410.461.830
Cumulative Recovered

This data shows how Covid-19 cases in Indonesia on Cumulative Case, Death, and Recovered throughout 2020-2021.

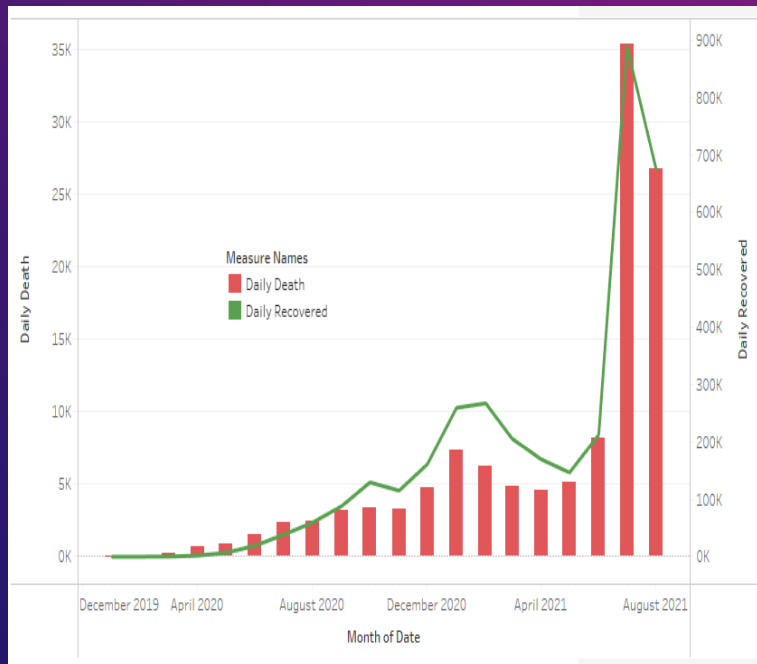
Here's the SQL Query to find the required data from dataset:

```
1 SELECT
2     SUM(Cumulative_Case),
3     SUM(Cumulative_Death),
4     SUM(Cumulative_Recovered)
5 FROM `irman-latihan-1.project_data_analyst10021206.covid19_indo`
```





3. THE RELATIONS BETWEEN DEATH AND RECOVERED OF COVID-19 CASES IN INDONESIA



Here's the SQL Query to find the required data from dataset:

```
1 SELECT
2     FORMAT_DATE('%b %y', Date) AS Month,
3     SUM(Daily_Death),
4     SUM(Daily_Recovered)
5 FROM `irman-latihan-1.project_data_analyst10021206.covid19_indo`
6 GROUP BY Month;
```

Here's the last one of the finding presents. In this question, I'm using the combo chart to find the relation between total cases of Daily Death and Daily Recovered in Indonesia month by month throughout 2020-2021. The bar represent Daily Death, and the line represent Daily Recovered. This chart shows that the Daily Recovered directly proportional to Daily Death.





TOOLS AND RESOURCES

01

SQL QUERY

Google
Big Query

02

DATA VIZUALIZATION AND
DASHBOARD

01

DATASET

kaggle

COVID-19 Indonesia Dataset
(Case and Vaccination) by
Thoriqul Aziz

04

POWERPOINT TEMPLATE



DASHBOARD



481.467.054

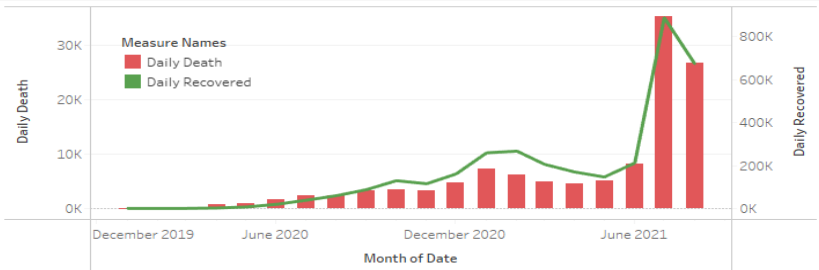
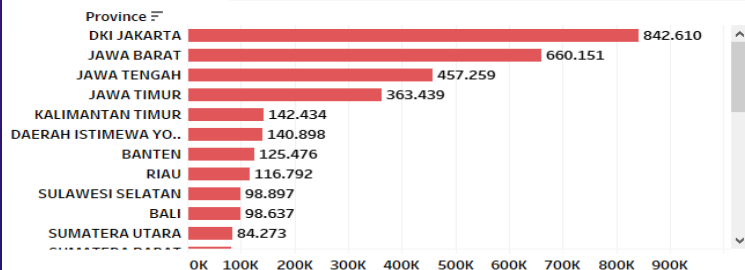
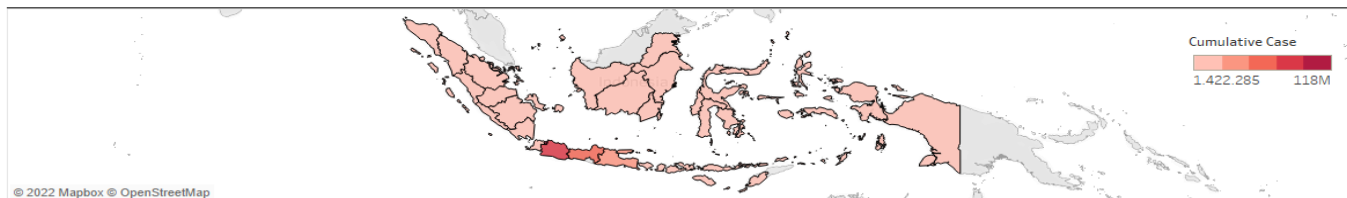
Cumulative Case

13.939.996

Cumulative Death

410.461.830

Cumulative Recovered



Covid-19 Distribution Map

Daily Case Indonesia

Province's Daily Case

Cumulative Case

Cumulative Death

Cumulative Recovered

Daily Death and Recovered

Dashboard 1

Navigation icons: back, forward, search, etc.

CERTIFICATION OF COMPLETION BY REVOU

