

# Google Data Studio Visualization and Analysis for COVID-19 Dataset

## Overview

Google Data Studio is a powerful tool used to create insightful and interactive dashboards and reports. In our analysis, we utilized this tool to visualize and analyze COVID-19 data for the year 2020.

### 1. Data Table: Country-wise COVID-19 Statistics:

The data table presents a detailed view of COVID-19 statistics for each country, including active cases, deaths, and recoveries. This visualization helps in understanding the impact of the virus across different countries.

### 2. Average Confirmed Cases per Day Line Chart:

To analyze the average confirmed COVID-19 cases per day, we calculated the average using the formula `SUM(Confirmed) / COUNT_DISTINCT(Date)`. This line chart visualizes the daily average, providing insights into the trend of confirmed cases over time.

### 3. Mortality Rate by Country Bar Chart:

We calculated the mortality rate for each country using the formula `(SUM(Deaths) / SUM(Confirmed))`. The resulting bar chart visualizes the mortality rate, aiding in understanding the severity of the virus's impact in different countries.

### 4. Total Deaths by Country Bar Chart

This bar chart illustrates the total number of deaths in each country, offering a clear comparison of the fatalities due to COVID-19 across different regions.

## Conclusion

Google Data Studio proved to be an invaluable tool for visualizing and analyzing the COVID-19 dataset. The visualizations provided meaningful insights into the spread and impact of the virus, aiding in a comprehensive understanding of the global pandemic.