# COVID-19 Tracker Project Documentation

## 1. Source Data

We used data from 'Our World in Data' COVID-19 dataset. The main fields included:

- location (country)
- date
- new_cases, new_deaths
- total_cases, total_deaths
- total_vaccinations, population

## 2. Data Preparation

- Loaded data into Power BI from CSV.
- Removed aggregate rows like 'World', 'Asia', etc.
- Ensured 'location' is set to Country/Region (Column Tools > Data Category).
- Created a separate Date table using CALENDAR DAX.
- Established relationship between DateTable[Date] and owid-covid-data[date].

## 3. Measures Created

- Total Cases = SUM('owid-covid-data'[total_cases])
- Total Deaths = SUM('owid-covid-data'[total_deaths])
- New Cases = SUM('owid-covid-data'[new_cases])
- 7-Day Avg Cases = AVERAGEX(LASTN(7,...)) [Modified for compatibility]

## 4. Visuals Used

- Total Cases and Total Deaths (Card Visuals)

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- New Cases Over Time (Line Chart: Axis = DateTable[Date], Values = new_cases)

- 7-Day Avg Cases (Line Chart: Axis = DateTable[Date], Values = 7-Day Avg)

- Country Comparison (Bar Chart: Axis = location, Value = Total Cases)

- Vaccination Progress (Area Chart: Axis = DateTable[Date], Value = total_vaccinations)

- World Impact Map (Map: Location = location, Size = Total Cases)

## 5. Slicer

- Country slicer using 'location' field to filter visuals per selected country.

## 6. Final Notes

- Map visual required enabling Bing Maps access and setting location data type.

- Proper relationships and DAX measures ensure interactive and filtered insights.

- Dashboard shows dynamic trends and comparisons based on selected country.