**📊 COVID-19 Global Analysis Dashboard (Power BI)**

This Power BI dashboard provides a visual and interactive representation of the global impact of the COVID-19 pandemic. It highlights total cases, recoveries, active cases, and deaths across various regions, offering both summary metrics and regional insights.

**📁 Project Overview**

The **CoronaVirus\_Analysis.pbix** project is a data visualization and reporting tool built using Power BI to analyze global COVID-19 statistics. It allows users to interactively explore the spread and status of the pandemic across different regions.

**🧾 Dataset Details**

* **Source:** (Please update with actual source, e.g., [Johns Hopkins University](https://github.com/CSSEGISandData/COVID-19), WHO, or Kaggle)
* **Metrics Included:**
  + Total Cases
  + New Cases
  + Active Cases
  + Total Recovered
  + New Recovered
  + Total Deaths
  + New Deaths
  + Recovery Rate
  + Death Rate
* **Regions Covered:** All continents including Africa, Asia, Europe, North America, South America, and Oceania.

**🎯 Key Performance Indicators (KPIs)**

* 🧪 **Total Cases:** 1 billion
* 💊 **Total Recovered:** 1.05 billion
* 🚑 **Active Cases:** 25 million
* 📈 **Recovery Rate:** 97%
* ⚰️ **Total Deaths:** 11 million
* ☠️ **Death Rate:** 1%
* ➕ **New Cases:** 0
* ➕ **New Recovered:** 1,564
* ➕ **New Deaths:** 0

**📊 Data Visualization Highlights**

* **Bar Chart:** Comparison of Total Cases, Deaths, and Recoveries by continent.
* **Map Visualization:** World map indicating **Red Zones** and **Safe Zones** based on active cases.
* **Slicers:** Region-wise filters to drill down into specific continents or countries.
* **Card Visuals:** At-a-glance KPIs for global statistics.

**🌍 Zone Classification Logic**

* **Red Zone:** High number of active or total cases.
* **Safe Zone:** Lower or no recent activity.

These zones are color-coded on the map to quickly identify global hotspots.

**🛠️ Tools & Technologies**

* **Power BI Desktop**
* **DAX** for calculated fields and measures
* **Microsoft Bing Maps** for geospatial mapping

**💡 Insights & Findings**

* Asia and North America have the highest number of total cases and recoveries.
* Recovery rate is significantly high at 97%, while the death rate is relatively low at 1%.
* Africa appears as a **Safe Zone** on the map, suggesting lower current risk.