**🌍 COVID-19 Data Analysis Project**

Welcome to my very first data analysis project! 🚀 As an aspiring Data Analyst, I embarked on this exciting journey with immense enthusiasm, choosing a dataset that captures one of the most significant global events of recent times—the **COVID-19 pandemic**. This project leverages the accurate and comprehensive data provided by **Our World in Data** to uncover valuable insights into how the pandemic shaped our world.

**🔍 Project Overview**

**1️⃣ Exploratory Data Analysis (EDA)**

The journey began with **SQL** in **SQL Server Management Studio (SSMS)**:

* 🧹 **Data Cleaning**: Removed irrelevant data, standardized null values for consistency, and optimized storage.
* 🔍 Performed in-depth analysis to understand the dataset's structure and trends.

**2️⃣ Data Insights Extraction**

Using **advanced SQL techniques**:

* 🔗 **Joins**, **Common Table Expressions (CTEs)**, and **Temporary Tables** were used to derive meaningful insights.
* 📊 Analysis included:
  + 🌐 Global infection rates.
  + ⚰️ Total death statistics.
  + 💉 Vaccination progress across regions.

**3️⃣ Dashboard Creation**

With **Power BI**, I created an **interactive dashboard** that transforms raw data into intuitive, visual stories:

* 📈 Visuals that highlight key trends and patterns.
* 👀 Easy-to-understand insights at a glance.

**✨ Key Features**

* **Thorough Data Cleaning**:  
  Handled missing and irrelevant data to ensure accuracy and efficiency.
* **Insightful SQL Queries**:  
  Extracted meaningful insights using robust SQL techniques.
* **Interactive Dashboards**:  
  A visually appealing and impactful dashboard created in **Power BI** for effective data presentation.

**🛠 Technologies Used**

* **SQL (SSMS)**: Data cleaning and analysis.
* **Power BI**: Dashboard creation and visualization.

🌟 **Why This Project Matters**  
This project marks the beginning of my journey toward becoming a skilled and versatile Data Analyst. By diving deep into data cleaning, analysis, and visualization, I’ve developed a strong foundation to tackle real-world challenges.

🔗 **Let’s explore the data together!**