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## 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.

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### Project Overview

#### 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.

#### 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.

#### 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.
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### 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.


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#### **Technologies Used**

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

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