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**Subject :** Project ( **COVID-19 Global Policy Impact Analysis**)

**Objective**

To analyze global COVID-19 statistics using structured SQL queries by importing, cleaning, organizing, and exploring a real-world dataset. The goal is to extract meaningful insights like top affected countries, trends over time, and mortality rates.

**Tools & Technologies Used**

* **Database**: Microsoft SQL Server
* **Frontend Tool**: SQL Server Management Studio (SSMS)
* **Data Source**: Kaggle COVID-19 Dataset (Excel format)
* **Languages/Queries**: T-SQL (Transact-SQL)

**Dataset Overview**

The dataset includes daily COVID-19 statistics per country with the following key columns:

* date – Reported date
* country – Country name
* total\_cases – Cumulative confirmed cases
* new\_cases – New cases per day
* total\_deaths – Cumulative deaths
* new\_deaths – Daily deaths
* population – Population of each country

**Project Workflow**

1. **Database Design**
   * Created a table covid\_data in SQL Server to store cleaned data.
   * Assigned appropriate data types and constraints for better data integrity.
2. **Data Import**
   * Imported the Excel dataset using SQL Server’s import wizard into the covid\_data table.
3. **Data Analytics using SQL Queries**
   * Analyzed key COVID-19 metrics using SQL GROUP BY, ORDER BY, and WHERE clauses.
   * Used **Window Functions** for rolling averages and trends.
   * Created **Views** for reusable reports.
4. **Insightful Queries Developed**
   * Top 10 countries by total cases and deaths
   * Peak day for new global cases
   * 7-day rolling average of new cases per country
   * Countries with highest death-to-case ratios
   * Prepared a summary report documenting findings and visual trends

**Conclusion**

This project demonstrated strong skills in:

* SQL data modeling and query writing
* Real-world data cleaning and transformation
* Trend analysis using aggregation and window functions
* Professional report generation and data storytelling