COVID-19 Data Analytics Project

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Program: BTech 3rd Year - Data Science Specialization

Tools: MySQL Workbench, Kaggle Dataset

Date: [Your Date]

1) Project Overview

Objective: Analyze real COVID-19 daily stats, clean it, store in MySQL, write useful queries and create summary views.

2) Dataset

Source: Kaggle COVID-19 Dataset

File: covid_data.csv

Fields: Province/State, Country/Region, Lat, Long, ReportDate, Confirmed, Deaths, Recovered, Active, WHO Region
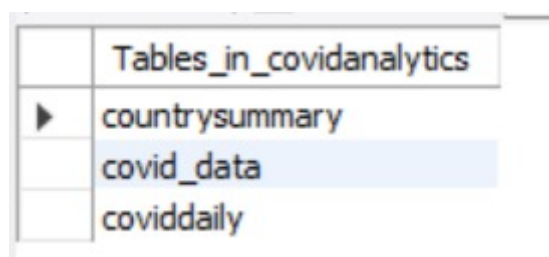
Records: ~20,000

3) Database Schema

DB: CovidAnalytics

Table: CovidDaily

Fields: ID, ProvinceState, CountryRegion, Latitude, Longitude, ReportDate, Confirmed, Deaths, Recovered, Active, WHORegion

Tables_in_covidanalytics
countrysummary
covid_data
coviddaily

Figure: Database tables structure showing CovidDaily and CountrySummary

Field	Type	Null	Key	Default	Extra
ID	int	NO	PRI	NULL	auto_increment
CountryRegion	varchar(100)	YES		NULL	
ProvinceState	varchar(100)	YES		NULL	
ReportDate	date	YES		NULL	
Confirmed	int	YES		NULL	
Deaths	int	YES		NULL	
Recovered	int	YES		NULL	

Figure: Table CovidDaily structure with correct fields

4) Key SQL Tasks

- Create DB & Table

- Load CSV data

- Write queries: total cases, daily cases, top countries, moving avg

- Create summary view

- Export CSVs

5) Outputs

- total_cases.csv

- daily_cases.csv

- top_countries.csv

- moving_avg.csv

- summary_view.csv

Figure: Sample rows from CovidDaily showing actual COVID data

6) Conclusion

Demonstrated real data handling, import, queries, views, window functions, and exports.

7) Author

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