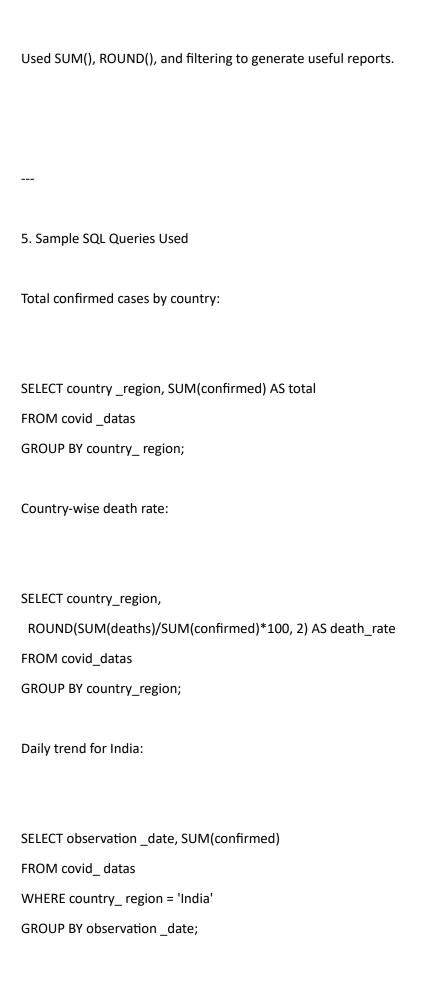
COVID-19 Data Analytics Using MySQL
Internship Project Phase – SQL Internship
1. Introduction
The COVID-19 pandemic has impacted the world significantly, leading to the generation of vast amounts of data on a daily basis. This project aims to leverage SQL to analyze such real-world data and draw meaningful insights. Using MySQL as the backend, we created a COVID-19 database, inserted data, and performed analytics to understand country-wise trends, death rates, and recovery patterns.
2. Abstract
The project revolves around importing, cleaning, and analyzing COVID-19 data using MySQL. We used a simplified dataset representing country-wise case reports over time. After preparing the dataset, we created a relational table named covid_datas and used SQL queries to extract key metrics like total confirmed cases, death rates, recovery numbers, and time-based trends.
This project showcases the importance of structured databases in organizing global-scale data and the power of SQL in performing quick and effective analysis.
3. Tools Used
MySQL Workbench 8.0 – For writing and executing SQL queries.

MySQL Server – As the RDBMS to store and manage data.
Microsoft Excel – To format and inspect the raw dataset.
CSV Dataset – Cleaned sample file from Kaggle based on global COVID-19 statistics.
4. Steps Involved in Building the Project
Created a new database: covid_analysis.
Defined a table: covid_datas with fields such as observation_date, country_region, confirmed, deaths, and recovered.
Inserted more than 20 sample data records manually using INSERT INTO statements.
Wrote SQL queries to:
Calculate total confirmed cases per country.
Determine country-wise death rate percentages.
Analyze recovery trends.
Extract India's daily COVID trend using GROUP BY and ORDER BY.



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## 6. Conclusion

Through this project, I developed a solid understanding of how to build and query relational databases using MySQL. It helped me strengthen concepts like data aggregation, filtering, sorting, and group-based analysis. More importantly, it simulated a real-world scenario where SQL is used to analyze large-scale health data — a valuable experience for any aspiring data analyst or backend developer.

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