# System Requirements Specification Index

For

# GCP Big Query covid dataset

Version 1.0

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Problem Statement : **COVID data set analysis with BIGQUERY GCP** .

Description : Use relevant methods operations to perform specified activities which are given in the instructions.

* Steps to login in the GCP big Query
* Use the credential given to you though your host
* Once you have logged in GCP console search for big query
* Then search for public data set **Covid ecdc** by clicking on search all projects

A screenshot of a computer

Description automatically generated

* Click on the sql query to open the query editor

A screenshot of a computer

Description automatically generated

Once you have imported the table check for respective rows and columns are imported correctly.

| **fullname** | **mode** | **type** |
| --- | --- | --- |
| date | NULLABLE | DATE |
| day | NULLABLE | INTEGER |
| month | NULLABLE | INTEGER |
| year | NULLABLE | INTEGER |
| daily\_confirmed\_cases | NULLABLE | INTEGER |
| daily\_deaths | NULLABLE | INTEGER |
| confirmed\_cases | NULLABLE | INTEGER |
| deaths | NULLABLE | INTEGER |
| countries\_and\_territories | NULLABLE | STRING |
| geo\_id | NULLABLE | STRING |
| country\_territory\_code | NULLABLE | STRING |
| pop\_data\_2019 | NULLABLE | INTEGER |

Dataset link

**https://console.cloud.google.com/bigquery?ws=!1m5!1m4!4m3!1sbigquery-public-data!2scovid19\_ecdc\_eu!3scovid\_19\_geographic\_distribution\_worldwide**

Problems

1. How can we select all rows, columns, and fields in the COVID-19 analysis database?
2. How can we calculate the total number of cases and deaths for each country?
3. How can we retrieve the daily new cases and deaths for a specific country (e.g., 'INDIA')?
4. How can we calculate the monthly number of cases and deaths globally?
5. How can we determine the top 10 countries by population-adjusted cases (per 100,000 people)?
6. How can we retrieve the daily new cases and deaths for a specific date ('2020-09-01') and display it in a scatter chart with the x-axis as the country and the y-axis as new deaths?
7. How can we identify the countries with the lowest case fatality rate (deaths/cases), ensuring a minimum number of cases for accuracy?
8. How can
9. How can we determine the top 5 countries by total cases and their daily case growth rate, and visualize the data in a bar chart with the x-axis as the month and the y-axis as monthly new cases, monthly new deaths, moving average cases, and moving average deaths?

## Execution Steps to Follow:

1. Open the GCP console search for big query
2. Import the dataset from the public repository
3. Perform all the query respective to the question provided
4. Take screenshots of the query execution
5. Download the chart for required question in PNG format
6. Upload the code to the Github

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