Step1:

Main git path: https://github.com/krajkumar14/DEVPOST-GCPM

Run the notebook.

https://github.com/krajkumar14/DEVPOST-GCPM/blob/main/2.%20M-GCP%20-%20Stock%20Data%20Analysis.ipynb

Note: Connection string details available in the code

This step will create collections in mongodb.

Step2:

Move to mongo shell run attached query.

https://github.com/krajkumar14/DEVPOST-GCPM/blob/main/3.%20Mongodb_query.txt

This step will create Aggregated collection to solve the use case.

Step3:

View the newly created collection in the compass.

Connection details for compass.

mongodb+srv://krajkumar_bits:root@cluster0.s14jweo.mongodb.net/

Step4:

Login to GCP

2021fc04988@wilp.bits-pilani.ac.in

143$samdiv

Goto dataflow

https://console.cloud.google.com/dataflow/jobs?referrer=search&project=abstract-robot-392317

run the latest jobs or create a copy the job and run. This step will move the collection.

Collections to be moved:

stock_data_sp500

rank_collection

Step5:

Goto Bigquery view the moved tables.

https://console.cloud.google.com/bigquery?referrer=search&project=abstract-robot-392317&ws=!1m0

run attached query to extract required column from json format.

https://github.com/krajkumar14/DEVPOST-GCPM/blob/main/4.%20Bigquery_query.txt

Step6:

Goto looker studio

Add the above created tables and build the chart.

Tables to be added:

stock_data_reporting

stock_data_intraday_highest_dip

Existing report link:

https://lookerstudio.google.com/reporting/5f26a414-351e-4364-a04e-0bad6c63514b/page/Q8aWD/edit