

COVID-19 DATA ANALYSIS



OBJECTIVE

- To perform data analysis and visualization on Covid-19 data using ETL tools.
- To perform data analysis on Covid_19 data and extract the meaningful information from the dataset which will help in taking quick and informed decision.

TECHNOLOGIES USED

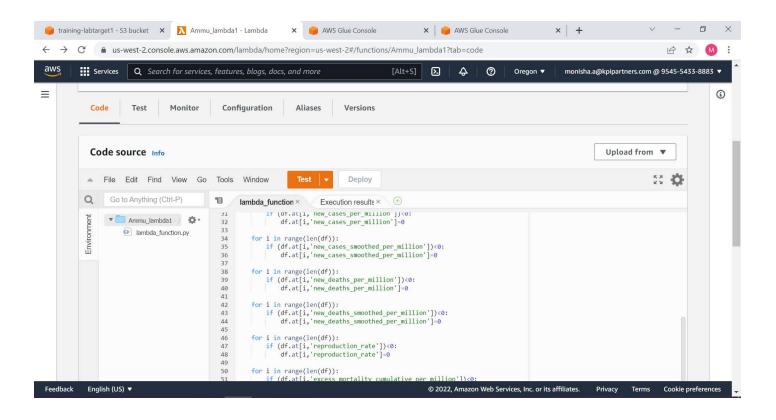


- AWS Glue
- SparkSQL
- Redshift
- AWS S3
- SparkSQL
- Crawler
- AWS Lambda
- PySpark

Problem Statements

1.Clean and transform data for processing

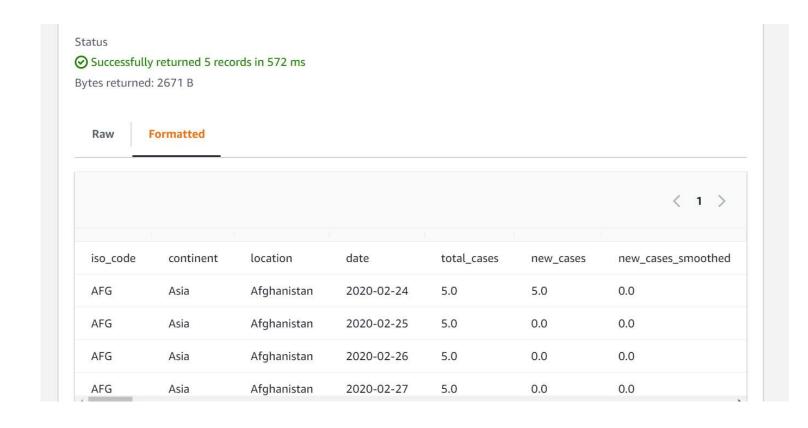
job name: Ammu_lambda1







1.Clean and transform data for processing Cont...



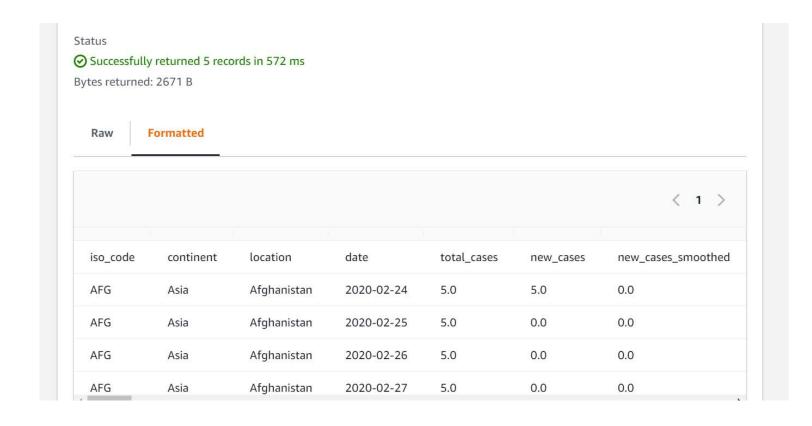


2. ETL operations on dataset

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                                           48
                                                              df.at[i, 'reproduction_rate']=0
      ▼ 🔲 Ammu_lambda1 - / 🌣 ▼
           lambda_function.py
                                           50
                                                     for i in range(len(df)):
                                                         if (df.at[i,'excess_mortality_cumulative_per_million'])<0:
    df.at[i,'excess_mortality_cumulative_per_million']=0</pre>
                                           51
                                           53
                                           54
                                                    for i in range(len(df)):
                                           55
56
                                                         if (df.at[i,'excess_mortality'])<0:
    df.at[i,'excess_mortality']=0</pre>
                                           57
                                           58
                                                    for i in range(len(df)):
                                                         if (df.at[i,'excess_mortality_cumulative'])<0:
    df.at[i,'excess_mortality_cumulative']=0</pre>
                                          59
                                          60
                                           61
                                           62
                                          63
                                                         if (df.at[i,'excess_mortality_cumulative_absolute'])<0:
    df.at[i,'excess_mortality_cumulative_absolute']=0</pre>
                                           65
                                                     for i in range(len(df)):
                                           66
                                                         if (df.at[i,'excess_mortality_cumulative'])<0:</pre>
                                           67
                                          68
                                                              df.at[i,'excess_mortality_cumulative']=0
                                          69
                                           70
                                           71
                                          72
73
                                                     for i in range(len(df)):
                                                           if (df.at[i,'continent'])==0 :
                                           74
                                                                df.drop([i], axis=0, inplace=True)
                                           75
76
                                           77
                                           78
                                                    wr.s3.to_csv(df,"s3://training-labtarget1/TrainingLab/monishaD/OUTPUT/Covid/clean_covid_filtered.csv", index = False)
                                           80
                                                    return {
                                          81
                                                          'statusCode': 200,
                                                          'body': json.dumps('Successful')
                                           82
                                                                                                                                                                                         78:67 Python Spaces: 4 🌣
Code properties
```

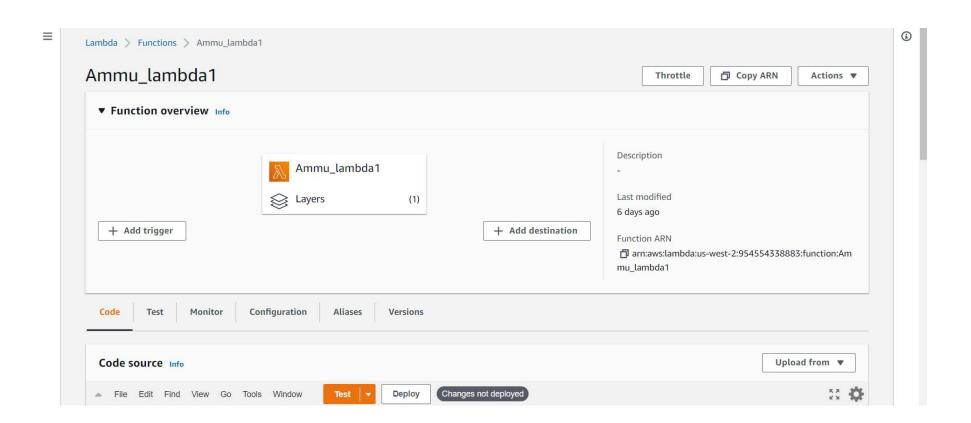


2. ETL operations on dataset Cont...



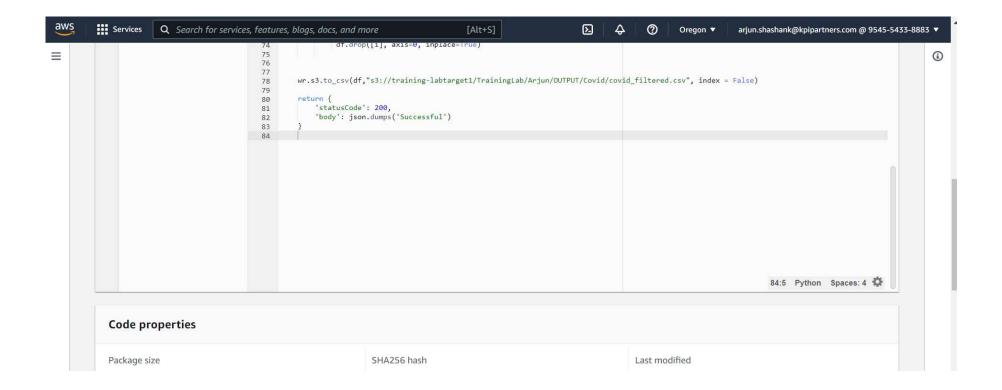


3. Storing the modified data in AWS





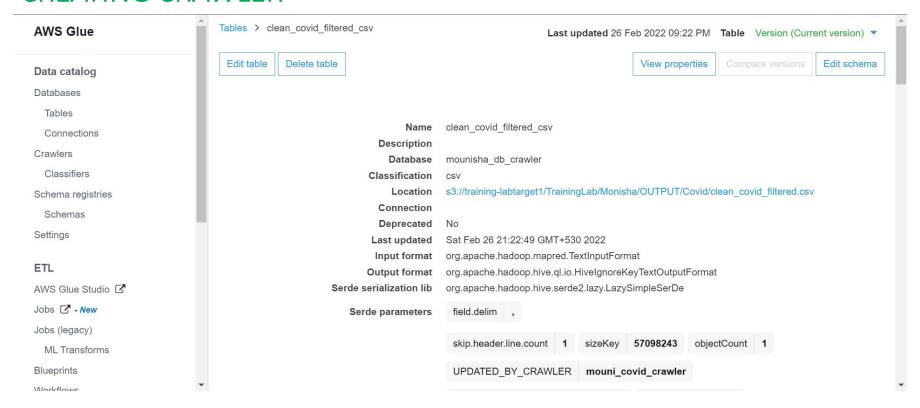
3. Storing the modified data in AWS Cont...



4. Display total cases , new cases , recovered cases and deaths.

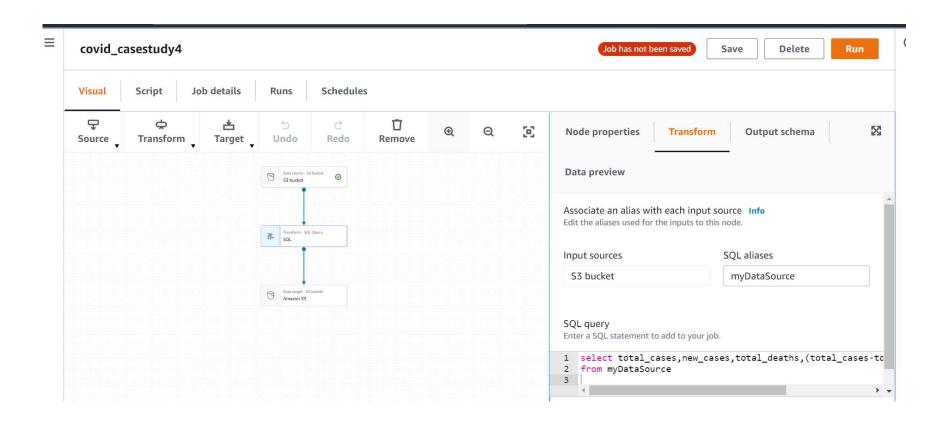


CREATING CRAWLER



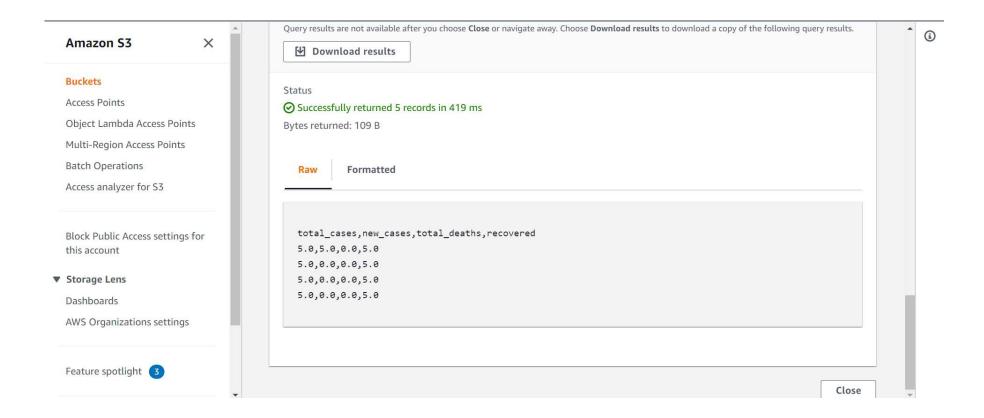


4. Display total cases ,new cases ,recovered cases and deaths. Job name:covid_casestudy4





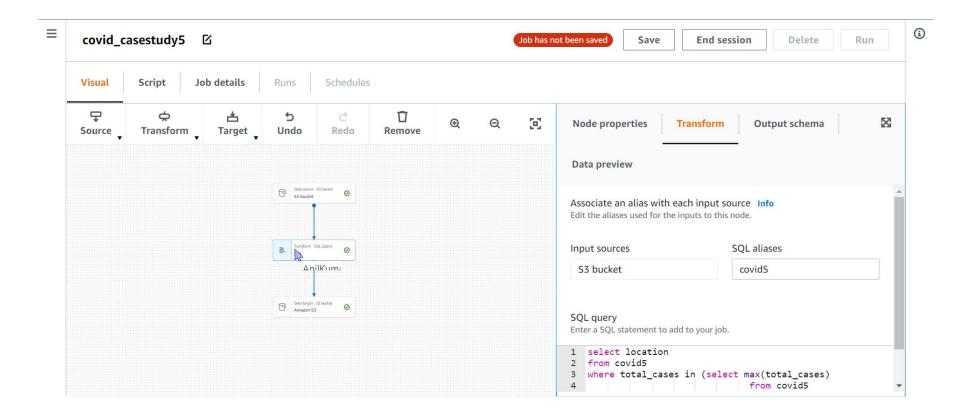
4.OUTPUT



5. Which country in Distinct WHO region highest cases in till date.

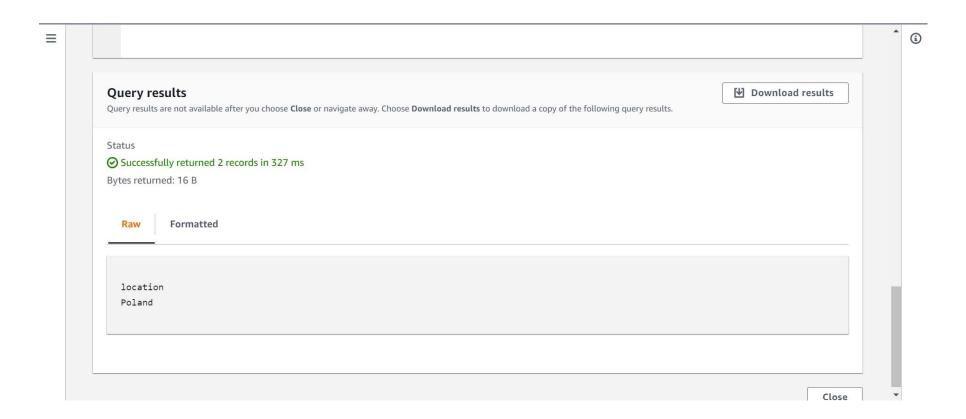
PARTNERS

JOB NAME :covid_casestudy5





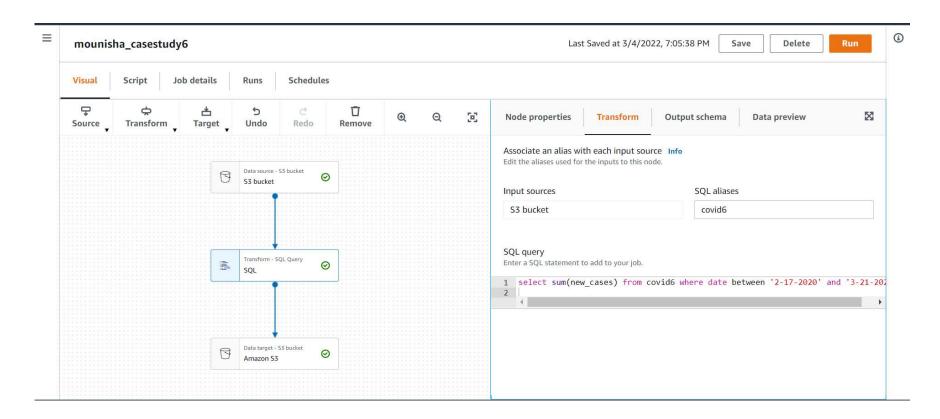
5.OUTPUT





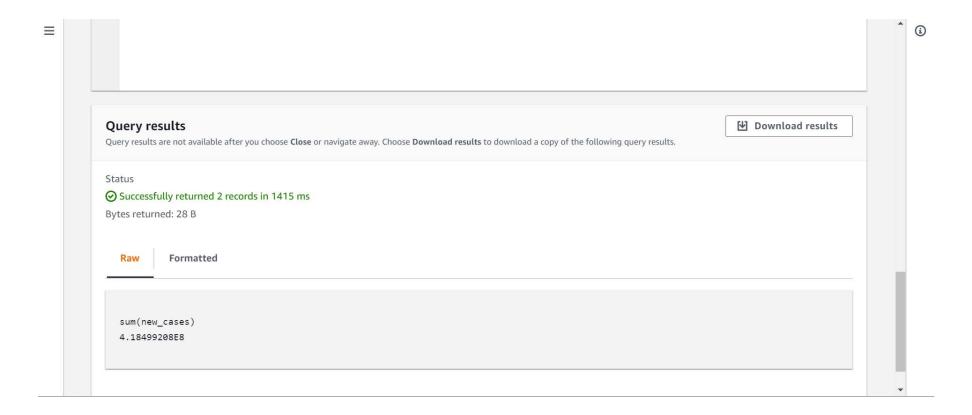
6. Total no of confirmed cases over between a certain date.

JOB NAME: mounisha_casestudy6





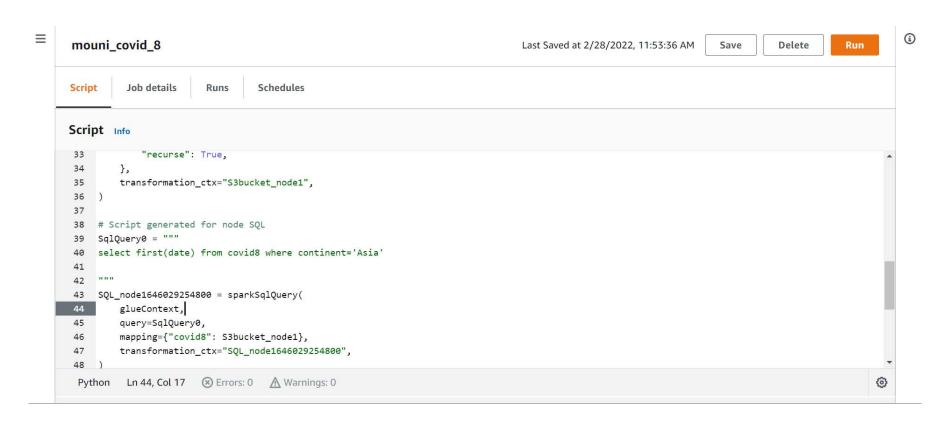
6.OUTPUT





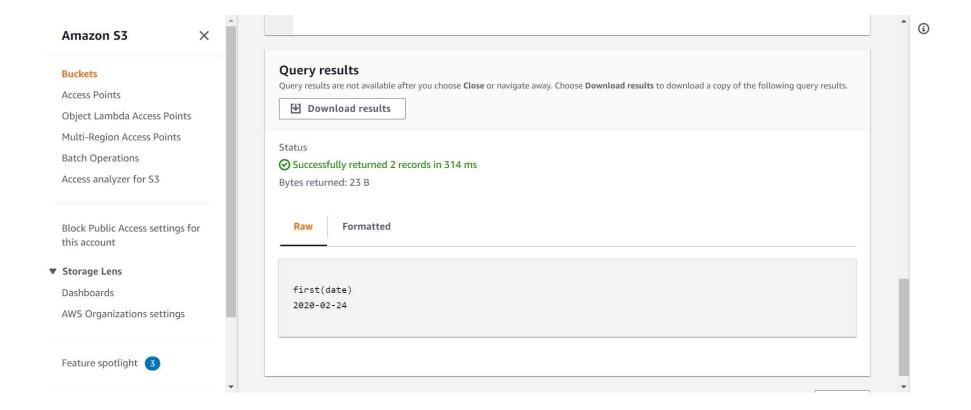
JOB NAME:mouni_covid_8







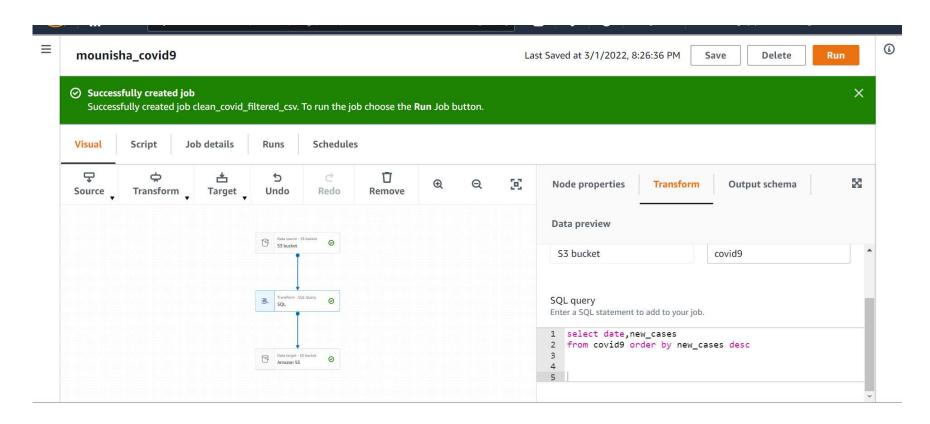
8.OUTPUT





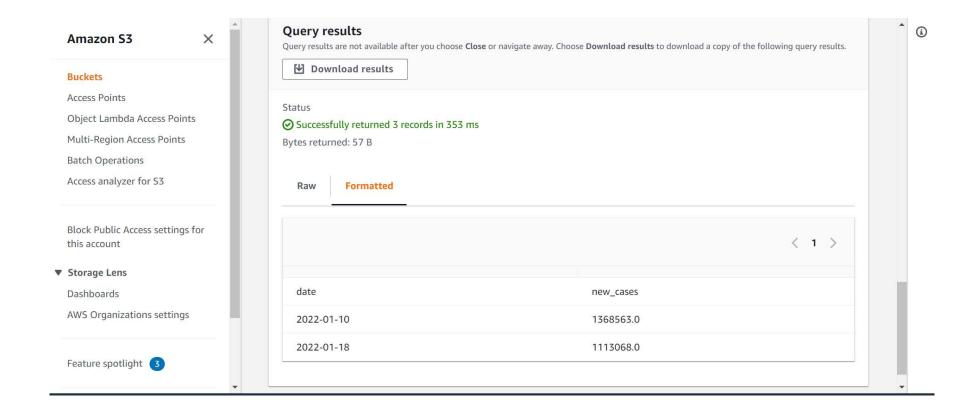
9. Date on which max no. cases were reported in a country.

JOB NAME : mounisha_covid9





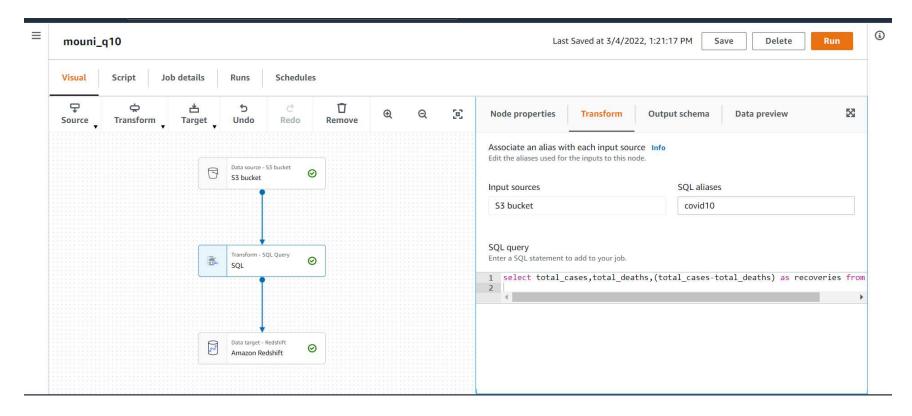
9.OUTPUT



10.Line chart showing total cases, deaths & recoveries of a particular country .

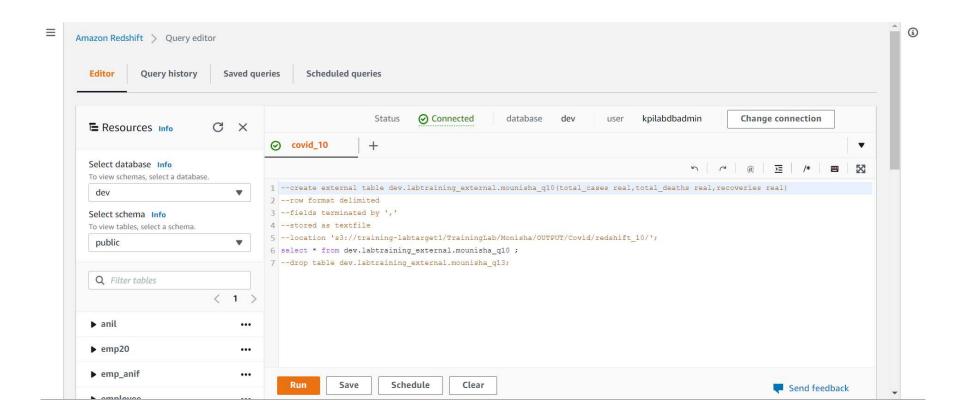


JOB NAME: mouni_q10



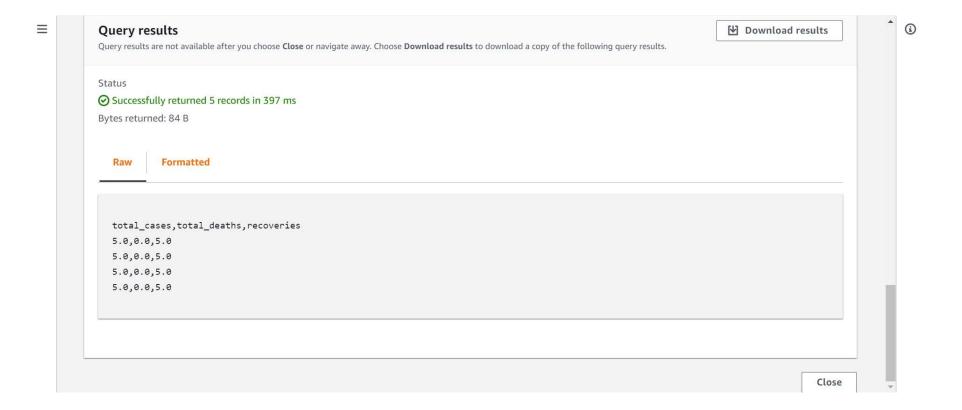


10. Creating external table



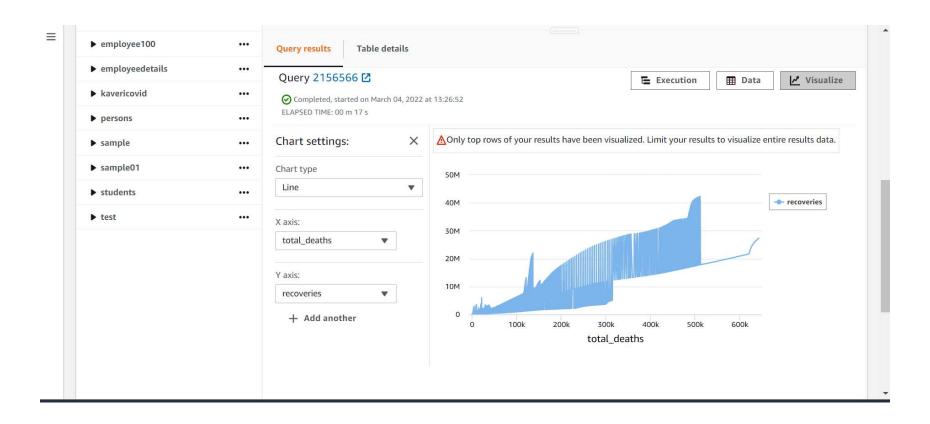


10. OUTPUT





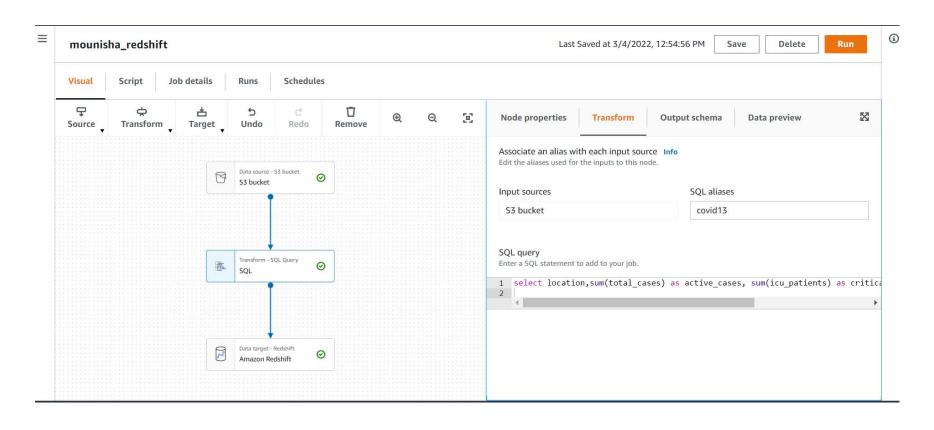
10. Line chart



13.No. of active cases vs critical cases of a country.

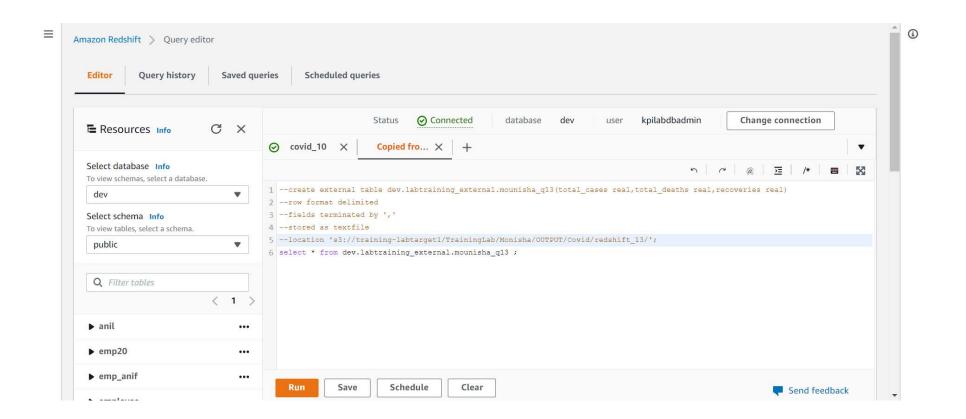
JOB NAME: mounisha_redshift





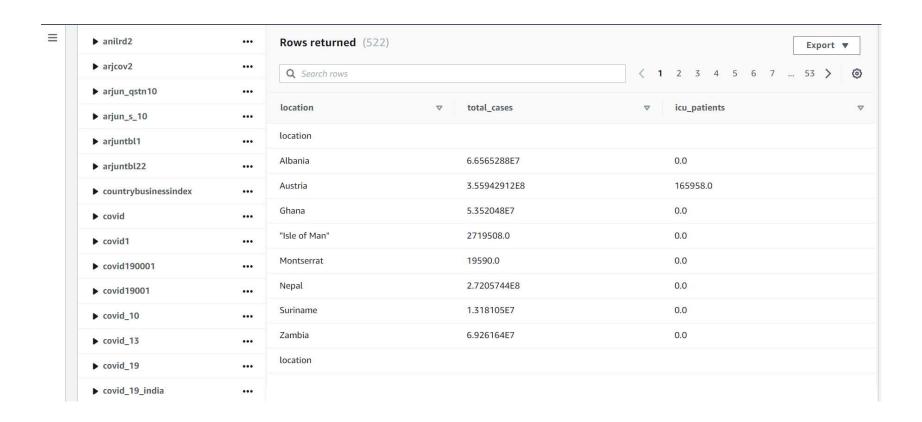


13. Creating external table



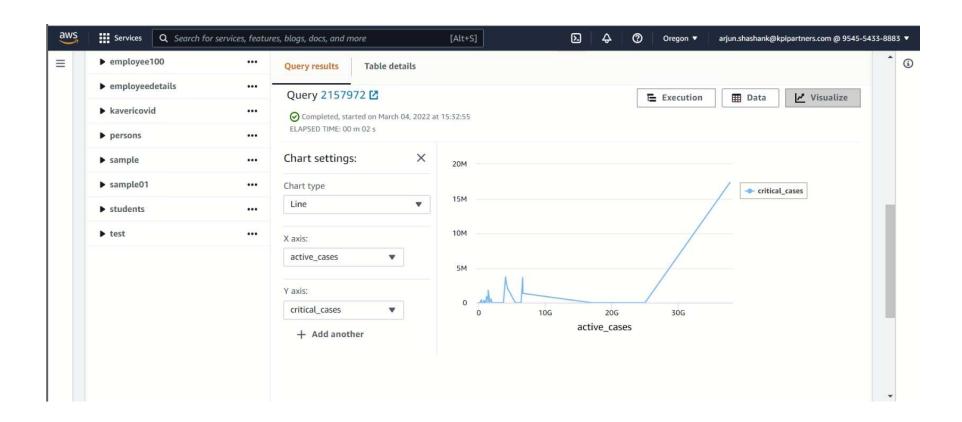


13. OUTPUT





13. active cases vs critical cases





THANK YOU