# **Status Report**

#### PROJECT SUMMARY

Report Date 23/01/2022	Project Name	Prepared By Kostandin VIIahu & Flavian Sokolli
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## STATUS SUMMARY

This project is developed to perform statistical operation on given Covid-Dataset.

The CSV file contains a header line, 151K lines of data. Each data line contains COVID information about a particular country on a particular day. While the CSV file contains 60+ columns, you will only focus on the following

- 1. iso\_code (COD)
- continent (CNT)
  location (LOC)
- 4. date (DT)
- 5. total\_cases (TC)
- 6. new\_cases (NC)
- 7. new\_cases\_smoothed (NCS)
- 8. total\_deaths (TD)
- 9. new\_deaths (ND)
- 10. new\_deaths\_smoothed (NDS)
- 11. reproduction\_rate (RR)
- 12. new tests (NT)
- 13. total tests (TT)
- 14. stringency\_index (SI)
- 15. population (POP)
- 16. median\_age (MA)

## Working of program:

- 1. Step-1: Take input from user and validate its pattern
- 2. Step-2: After taking valid input parse into tokens, (token. is command, which is broken. Into pieces)
- 3. Step-3: Different tokens have different meanings
- 4. Step-4: Read csv file from given path
- 5. Step-5: finally display the result

## **Input Command structure and parameters:**

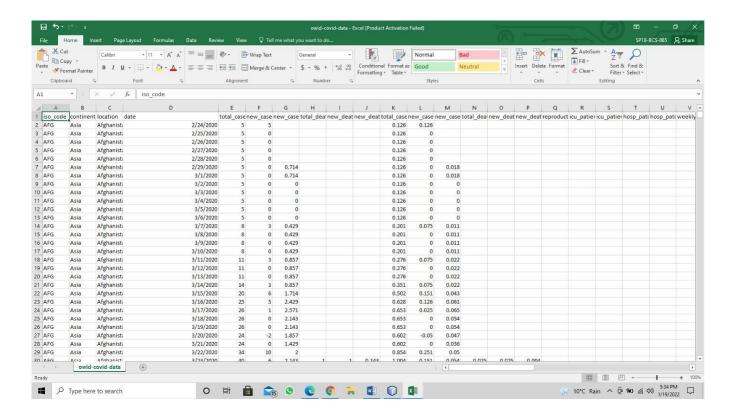
The command line interface accept the format:

-file pathToFile -param1 value1 -param2 value2 ... -paramN valueN.

The parameters (param1 .. paramN) can be stat, limit, by and display. Values that of these parameters as follow:

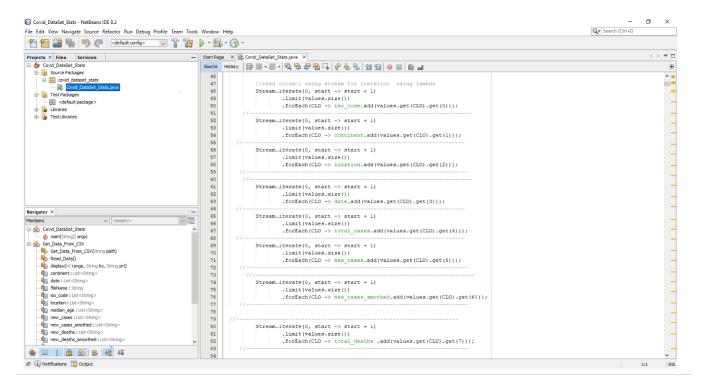
- 1. file: path to covid data file
- 2. stat: the statistics to be computed, can assume value either min or max
- 3. limit: integer in the range [1..100].
- 4. by: the field on which the statistics will be computed. It can have value NC, NCS, ND, NDS, NT, NDPC.
- 5. Display: The type of data to be displayed. Values can be DATE, COUNTRY, CONTINENT..

#### **DataSet:**



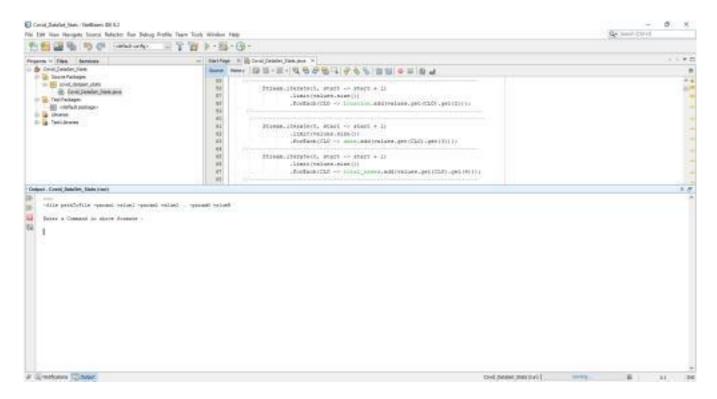
#### Code:

- 1. Language: Java-8
- 2. IDE:Netbeans

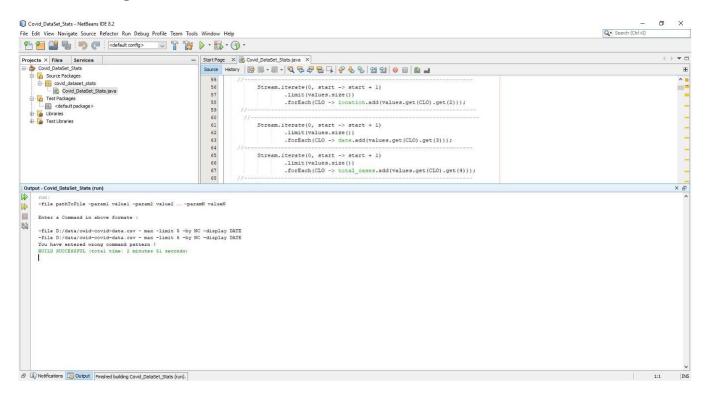


## How program work:

#### 1. On Execute:

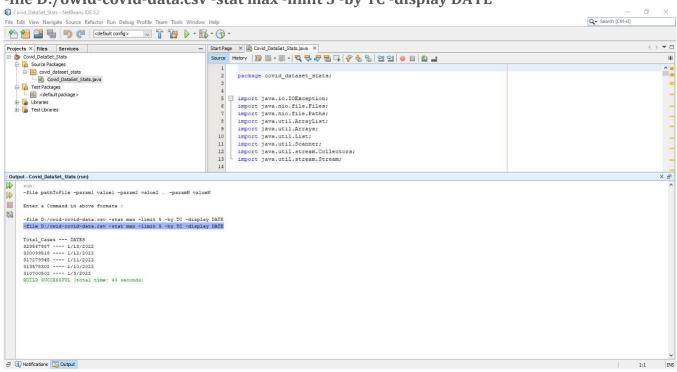


## 2. IF wrong command is entered:

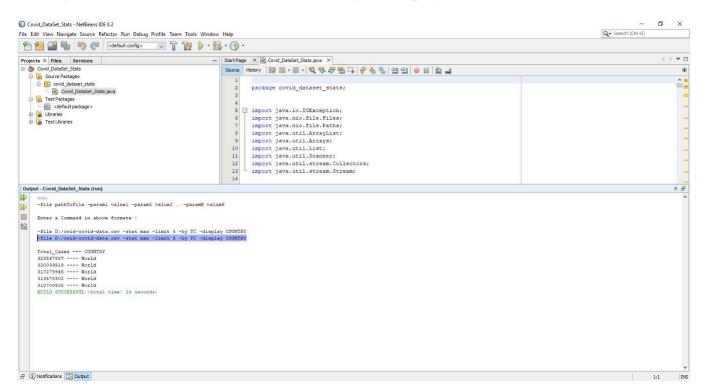


## 3. Let's execute correct command:

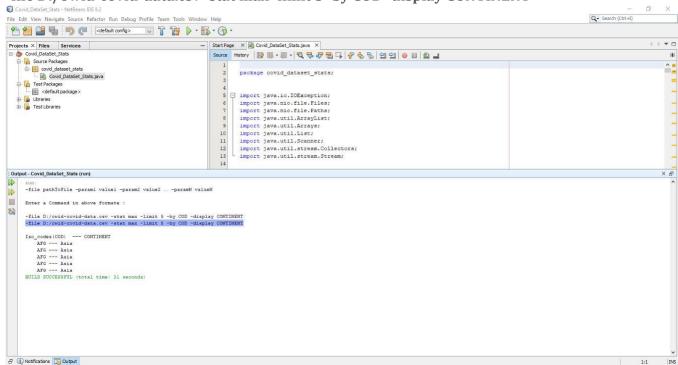
-file D:/owid-covid-data.csv -stat max -limit 5 -by TC -display DATE



-file D:/owid-covid-data.csv -stat max -limit 5 -by TC -display COUNTRY



-file D:/owid-covid-data.csv -stat max -limit 5 -by COD -display CONTINENT



There were some problems with the excel csv file where many data were missing, we had to edit the csv file so our program could run properly. We couldn't fix few commands like this two commands:

- -file D:\owid-covid-data.csv -stat max -limit 5 -by POP -display COUNTRY
- -file D:\owid-covid-data.csv -stat min -limit 5 -by POP -display DATE

And the error coming out is Index -1 out of bounds for length 154682

The github repository url: https://github.com/kostandinvllahu/Advance\_Java\_Project