Course: Big Data

Lab 03

MapReduce

Fill answers of the questions below in the given tables.
Your screenshots must contain commands for required operations.

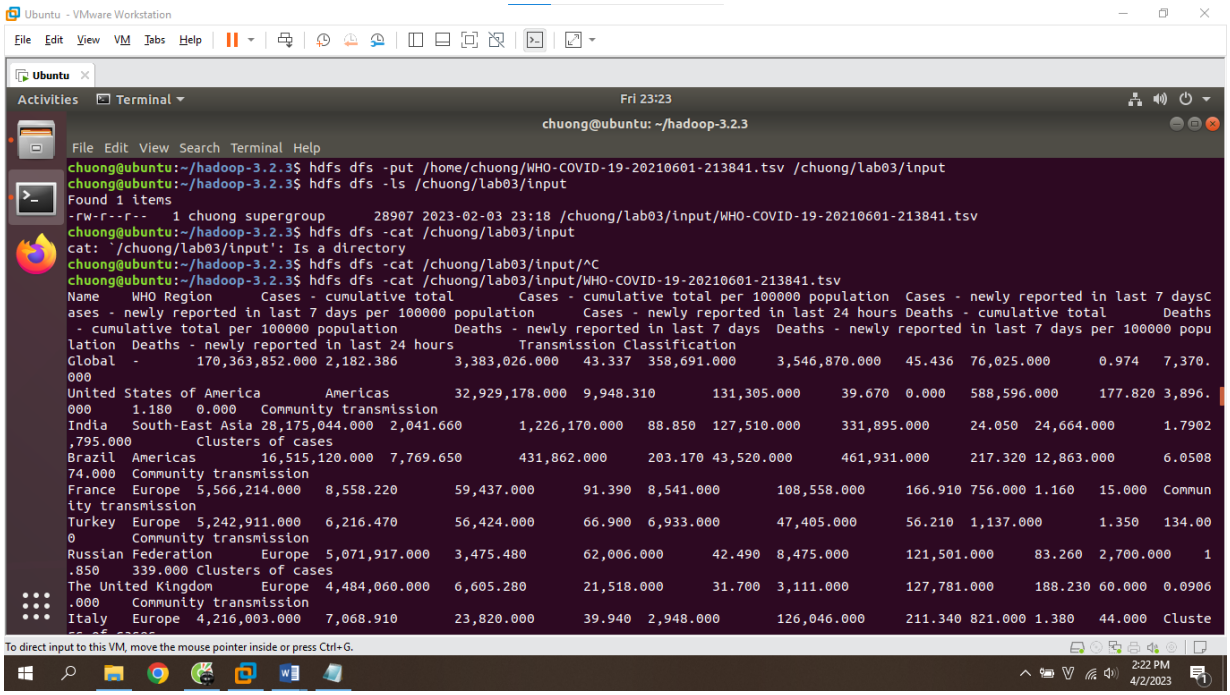
Question 1:

Given a tsv file WHO-COVID-19-20210601-213841.tsv which is corresponding to the WHO Coronavirus (COVID-19) Dashboard.

Students are required to create a folder, named **lab03**, in HDFS and then copy the tsv to **lab03/input/**

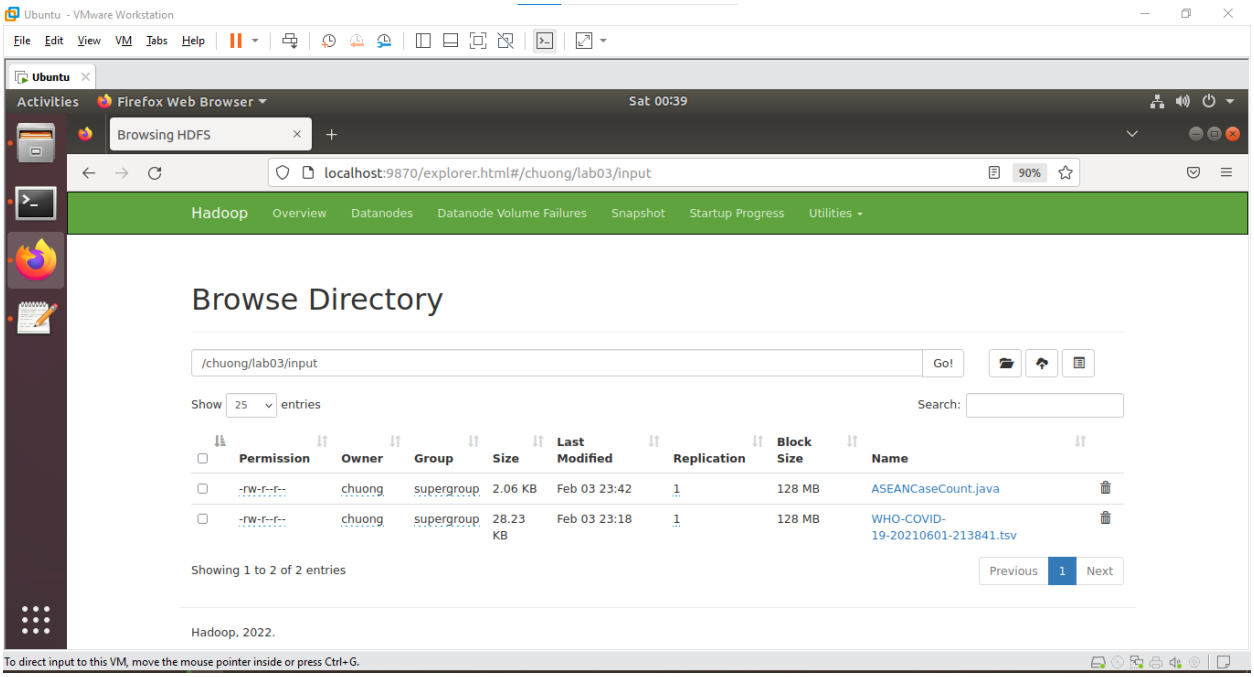
Take a screenshot to show the content of **lab03/input/** in HDFS

Your screenshot goes here



Question 2:

Create one and only one java file, named **ASEANCaseCount.java**, to run a MapReduce job that counts the number of cumulative total cases among ASEAN countries (*South-East Asia Region in the given data table*).
The output of the MapReduce job is located in **lab03/output-java/**.
Submit the source code file following the instructions in Submission Notice.



Question 3 (*optional*):

Create a pair of Python files, named **ASEANDeathCountMapper.py** and **ASEANDeathCountReducer.py**, to run a MapReduce job that counts the number of cumulative total deaths among ASEAN countries (*South-East Asia Region in the given data table*).
The output of the MapReduce job is located in **lab03/output-python/**.
Submit the source code files following the instructions in Submission Notice.

Submission Notice

- Export your answer file as pdf
- Rename the pdf following the format:

  <student number>_HoTen.pdf

  E.g. 123456_NguyenThanhAn.pdf
  If you have not been assigned a student number yet, then use 123456 instead.
- Create a folder with the name as **<student number>_HoTen**, which contains
  - **<student number>_HoTen.pdf** → your answer
  - **java/** → Java source code folder
    | ASEANCaseCount.java
  - **python/** → Python source code folder
    | **ASEANDeathCountMapper.py**
    | ASEANDeathCountReducer.py
- Compress the folder **<student number>_HoTen** in zip format and finally submit to the given form.
  E.g. 123456_HoTen.zip
- Careless mistakes in filename, format, question order, etc. are not accepted (0 pts).