Course: MMDS 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 <u>WHO-COVID-19-20210601-213841.tsv</u> which is corresponding to the <u>WHO</u> 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

```
alfiee@alfiee-VirtualBox: ~/Desktop/hadoop-3.2.1 Q = _ □ 🔯

slfiee@alfiee-VirtualBox: ~/Desktop/hadoop-3.2.1$ bin/hdfs dfs -ls /user/alfiee/l
ab03/input
Found 1 items
-rw-r--r-- 1 alfiee supergroup 28907 2024-02-03 14:28 /user/alfiee/lab03/input/WHO-COVID-19-20210601-213841.tsv
```

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:

lab03_<student number>_HoTen.pdf

E.g. lab03_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

| ASEANDeathCountMapper.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).