CSCE 5300 INTRODUCTION TO BIG DATA AND DATA SCIENCE

ASSIGNMENT-1

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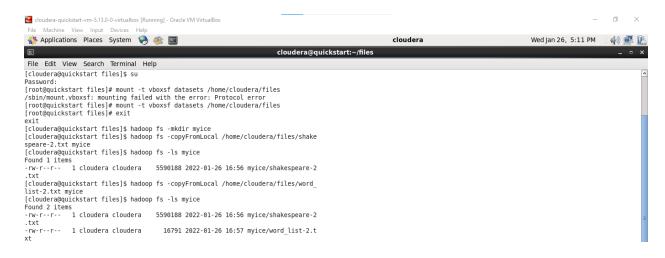
STEP 1: Importing datasets

• In the first step, I have created a folder named 'files' in cloudera using the command **mkdir** and imported the datasets shakespeare-2.txt and word_list-2.txt into it using **mount -t vboxsf datasets /home/cloudera/files**.



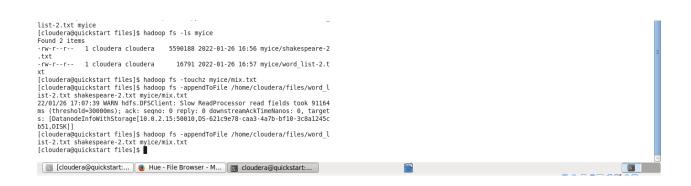
STEP 2: Loading data into Hadoop hdfs

- In the second step, I have created a folder named 'myice' and loaded the datasets into Hadoop using **copyFromLocal** command.
- Also, I have checked the contents of 'myice' using **-ls** command.



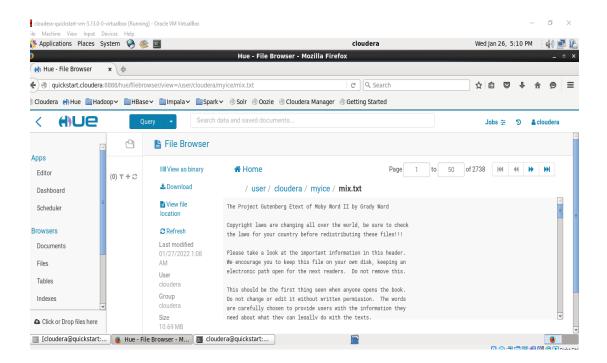
STEP 3: Using second file and appending the second file to the first file

- In the third step, I have created a folder named 'mix' using **-touchz** to store the merged version of both the datasets.
- Then, I used the command **appendToFile** to append the second file to the first file and stored the appended version in mix.txt.



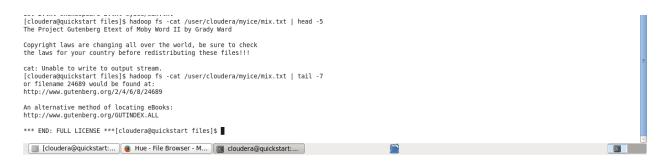
STEP 4: File Visualization with Hue

- Next I have opened Hue in the cloudera browser and opened dashboard and clicked on files.
- Then I visualized the 'mix.txt' file in which the appended files are present.



STEP 5: Viewing the first five lines of merged dataset using head command

- Here I have used **cat** command to display the contents of the file.
- Then I have used **head** command and displayed the first five lines of merged dataset mix.txt.



STEP 6: Viewing the last seven lines of merged dataset uding tail command

• Here I have used the **tail** command and displayed the last seven lines of the merged dataset.



STEP 7: Creation of new file and loading it into Hadoop hdfs

• Here I have used **cat** command and **copyFromLocal** command and created a new file named newfile.txt and loaded it into Hadoop hdfs.

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An alternative method of locating eBooks:
http://www.gutenberg.org/GUTINDEX.ALL

*** END: FULL LICENSE ***[cloudera@quickstart ~]$ cat > new.txt
this is my first assignment[cloudera@quickstart ~]$ hadoop fs -copyFromLocal new.txt newfile.txt
[cloudera@quickstart ~]$
```

STEP 8 : Appending three datasets

• Here I have used the command **-getmerge** to append all the three datasets by specifying the appropriate paths for each file.

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http://www.gutenberg.org/GUTINDEX.ALL

*** END: FULL LICENSE ***[cloudera@quickstart ~]$ cat > new.txt
this is my first assignment[cloudera@quickstart ~]$ hadoop fs -copyFromLocal new.txt newfile.txt
[cloudera@quickstart ~]$ hdfs dfs -getmerge /user/cloudera/shakespeare.txt /user/cloudera/word_li
st.txt /user/cloudera/newfile.txt final.txt
[cloudera@quickstart ~]$ |
```

STEP 9: Visualizing all datasets with Hue

• In the final step I have opened Hue and visualized all the three datasets.

