Exercise 03: B. Stop Word Elimination using MapReduce

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Previous exercise described how to count repeated words in the input file. This exercise practice the students to do MapReduce process using word counting application with elimination words.

Prerequisites

Ensure that Hadoop is installed, configured and is running. More details:

Single Node Setup for first-time users.

Cluster Setup for large, distributed clusters.

Inputs and Outputs

i. Input file should be in : /wcsw/in00/

data.txt

Copy the content text from Shakespeare.txt, Which is attached in Google classroom.

sw.txt

Add following elimination words into sw.txt file.

all

is

the

our

I

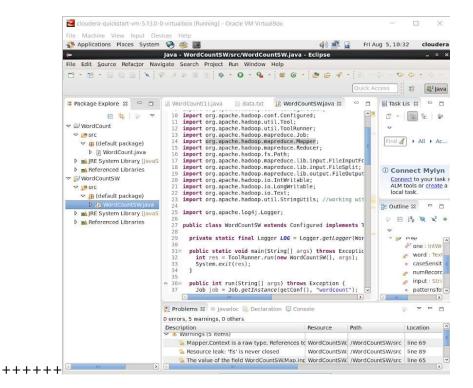
It

ii. Output file should be in /wcsw/out00/

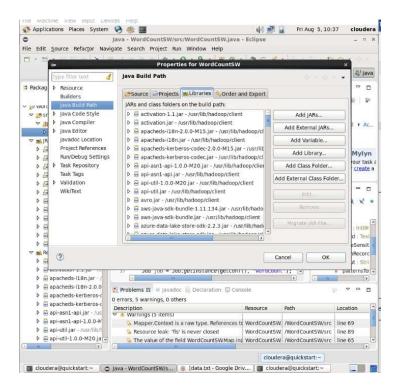
Step 1

Compile WordCountSW.java and create a WordCountSW.jar:

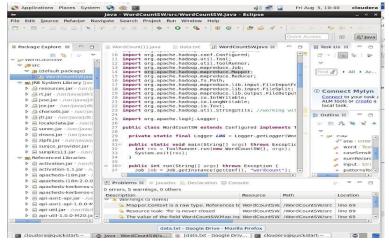
(i) Create WordCountSW.java project.



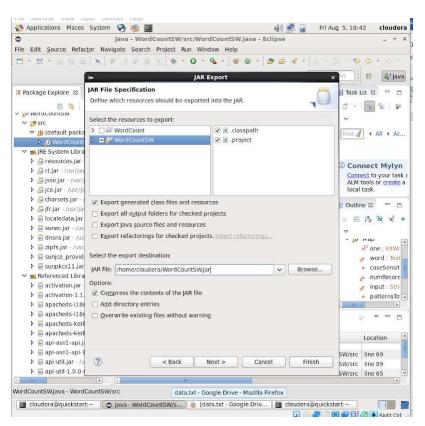
(ii) Import external .jar files



(iii) Create WordCount class file using Google classroom attached WordCount.java file.



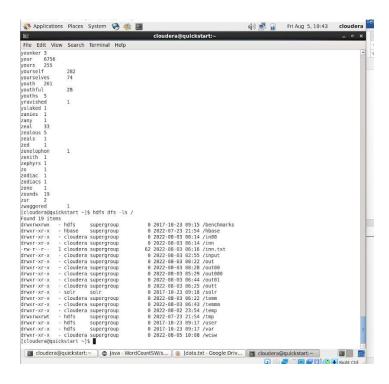
(iv) Create WordCountSW.jar file



Step 2

Create following folders in HDFS:

- /wcsw/in00 input directory in HDFS
- /wcsw/out00 output directory in HDFS



Step 3

Create and copy data text-files into input folder:

Step-4

Create and copy sw text-files into input folder:

```
| Grwxr-xr-x - cloudera supergroup | 0 2022-08-05 10:08 /wcsw | [cloudera@quickstart ~]$ hdfs dfs -ls /wcsw/in00/ | Found 2 items | 4538524 2022-08-05 09:42 /wcsw/in00/data.txt -rw-r--r- 1 cloudera supergroup | 21 2022-08-05 09:45 /wcsw/in00/sw.txt | [cloudera@quickstart ~]$
```

[cloudera@quickstart ~]\$ hdfs dfs -ls /wcsw/in00/

Found 2 items

-rw-r--r- 1 cloudera supergroup 3309 2021-08-24 07:00 /wcsw/in00/data.txt

Step 5

Run the MapReduce application with skip option:

[cloudera@quickstart ~]\$ hadoop jar /home/cloudera/WordCountSW.jar /wcsw/in00/data.txt /wcsw/out00/ -skip /wcsw/in00/sw.txt

Show MapReduce Framework

