COMP9313 2018s2 Project 1 (25 marks)

Problem statement:

Guild the inverted index for a given set of documents (compute the term weights by TF-IDF as shown in slide 5 of Chapter 4, using base 10 logarithm). Ignore the letter case, i.e., consider all words as lower case.

Input files:

Each line is in format of "DocID DOC", where DocID is the ID of the document, and DOC is the document content (a list of terms). For example:

0 Construct Inverted Index

1 using MapReduce

2 inverted index code

3 index index file

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https://webcm es/20465

Output: https://eduassistpro.github.io/

If a term W is contained in N documents, tput for this term contains Minds in What of Matter County assist Doctor weight,"..., and "W\tDocIDn, weight,"...

ascending order, and the term weights are of double precision (stored in double/DoubleWritable). Given the example graph, the output file is like (assumed in one file):

code\t2, 0.6020599913279624 construct\t0, 0.6020599913279624 file\t3, 0.6020599913279624 index\t0, 0.12493873660829993 index\t2, 0.12493873660829993 index\t3, 0.24987747321659987 inverted\t0, 0.3010299956639812 inverted\t2, 0.3010299956639812 mapreduce\t1, 0.6020599913279624 using\t1, 0.6020599913279624

Code format:

Name your package as "comp9313.proj1" and name your driver class as "Project1.java". Your program should receive 3 parameters: the input folder, the output folder and the number of reducers. Finally, package all your java files as a zip file with name "InvertedIndex.zip".

Compile:

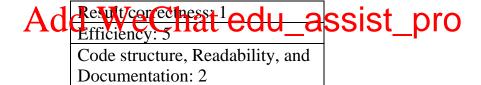
Your java code will be compiled and packaged as a jar file, and we will use the following commands to check the correctness of your solution:

- \$ \$HADOOP HOME/bin/hadoop jar YOURJAR.jar YOURCLASS input output 1
- \$ \$HADOOP_HOME/bin/hdfs dfs -cat output/*

Please ensure that the code you submit can be compiled and packaged. Any solution that has compilation errors will receive no more than 5 points for the entire assignment.

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Submission:

Deadline: Sunday 9th Sep 09:59:59 PM

Log in any CSE server (e.g., williams or wagner), and use the give command below to submit your solutions:

\$ give cs9313 project1 InvertedIndex.zip

Or you can submit through:

https://cgi.cse.unsw.edu.au/~give/Student/give.php

If you submit your assignment more than once, the last submission will replace the previous one. To prove successful submission, please take a screenshot as assignment submission instructions show and keep it by yourself. If you have any problems in submissions, please email to xuefeng.chen@student.unsw.edu.au.

Late submission penalty

10% reduction of your marks for the 1st day, 30% reduction/day for the following days.

Plagiarism:

The work you submit must be your own work. Submission of work partially or completely derived from any other person or jointly written with any other person is not permitted. The penalties for such an offence may include negative marks, automatic failure of the course and possibly other academic discipline. Assignment submissions will be examined manually.

Relevant scholarship authorities will be informed if students holding scholarships are involved in an incident of plagiarism or other misconduct.

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