Exercise 07: Word Count using Pig Grouping

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Here, we will be running Apache Pig Sample scripts using grunts. It is to just see the power of Apache Pig.

Step 1A: Start Grunt shell.

Open terminal and type pig

Step 1B: Create a file at /user/cloudera/pigfile.txt With following content.



Step 2: Load the file stored in hdfs with variable 'in1' and each line have to

store in 'line' (Space separated file)

pigdata = load '/home/cloudera/pigg.txt' as (line:chararray); dump pigdata;

```
2023-08-16 21:54:39,832 [main] INFO org.apache.pig.tools.pigstats.SimplePigStats - Detected Local mode. Stats reported below may be incomplete
2023-08-16 21:54:39,833 [main] INFO org.apache.pig.tools.pigstats.SimplePigStats - Script Statistics:

HadoopVersion PigVersion UserId StartedAt FinishedAt Features
2.6.0-cdn5.12.0 0.12.0-cdn5.12.0 cloudera 2023-08-16 21:54:27 2023-08-16 21:54:39 UNKNOWN

Success1

Job Stats (time in seconds):
JobId Alias Feature Outputs
job_local1244379856_0002 pigdata MAP_ONLY file:/tmp/temp-399157659/tmp-515470237,

Input(s):
Successfully read records from: "/home/cloudera/pigg.txt"

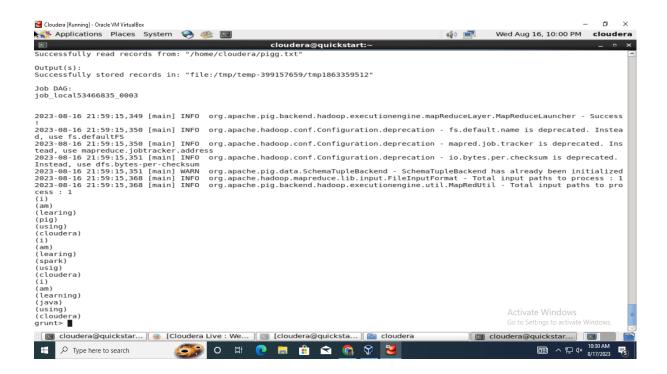
Output(s):
Successfully stored records in: "file:/tmp/temp-399157659/tmp-515470237"

Job DAG:
Job_local1244379856_0002

2023-08-16 21:54:45,835 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
2023-08-16 21:54:45,835 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fis.defaultF5
2023-08-16 21:54:45,835 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapred.job.tracker is deprecated. Instead, use mapreduce.jobtracker.address
2023-08-16 21:54:45,837 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum
2023-08-16 21:54:45,837 [main] INFO org.apache.jid.data.SchemaTupleBackend - schemaTupleBackend has already been initialized org.apache.pig.data.SchemaTupleBackend - SchemaTupleBackend has already been initialized org.apache.pig.data.SchemaTupleBackend - SchemaTupleBackend - Total input paths to process: 1 (i am learing pig using cloudera) (i am learing park using cloudera) (i am learing park using cloudera) (i am learing spark using cloudera) (i am learing s
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Step 3: flatten the words in each line from variable 'in1' and save separated words into variable 'wordsinline'

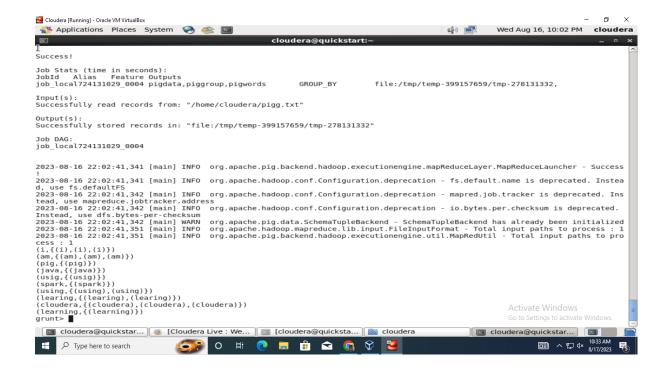
pigwords = foreach pigdata generate flatten (TOKENIZE(line,' ')) as word; dump pigwords;



Step 4: Group the similar words and save into variable 'groupwords'

piggroup = GROUP pigwords by word;

dump piggroup;



Step 5: Count Words in the group.

pigcount = foreach piggroup GENERATE group, COUNT(pigwords); dump pigcount;

