Creating a MapFile

Command for compiling Java file:

javac -classpath /home/student4/hadoop-common-2.6.1.jar:/home/student4/hadoop-mapreduce-client-core-2.6.1.jar:/home/student4/commons-cli-2.0.jar -d . MapFileWriteDemo.java

Command for setting location:

export HADOOP\_CLASSPATH=/home/student4

Command to build a MapFile:

hadoop MapFileWriteDemo numbers.map

Command to list files:

hdfs dfs -ls numbers.map

Command for determining the number of output partitions in data file:

hadoop fs -text numbers.map/data | head

Command for determining the number of output partitions in index file:

hadoop fs -text numbers.map/index

Output screen short:

A screenshot of a social media post

Description automatically generated

A screenshot of a social media post

Description automatically generated

Re-Creating the index for a MapFile

Command for compiling Java file:

javac -classpath /home/student4/hadoop-common-2.6.1.jar:/home/student4/hadoop-mapreduce-client-core-2.6.1.jar:/home/student4/commons-cli-2.0.jar -d . MapFileFixer.java

Command for setting location:

export HADOOP\_CLASSPATH=/home/student4

Command for sort the sequence file numbers.seq into a new directory called number.map3:

hadoop jar hadoop-mapreduce-examples-2.2.0.jar sort -r 1 \

-inFormat org.apache.hadoop.mapreduce.lib.input.SequenceFileInputFormat \

-outFormat org.apache.hadoop.mapreduce.lib.output.SequenceFileOutputFormat \

-outKey org.apache.hadoop.io.IntWritable \

-outValue org.apache.hadoop.io.Text \

/user/student4/numbers.seq /user/student4/numbers.map3

Command to list files:

hadoop fs -ls /user/student4/numbers.map3/

Command to rename the MapReduce output to be the data file:

hadoop fs -mv /user/student4/numbers.map3/part-r-00000 /user/student4/numbers.map3/data

Command to create the index file:

hadoop MapFileFixer /user/student4/numbers.map3/

Output screen short:

A screenshot of a social media post

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated