Assignment Day 5

Input Dataset:

hadoop fs -cat /dataset/musicdata.txt

(Displays content of Input Dataset)

ScreenShot:

```
[acadgild@localhost ~]$ hadoop fs -cat /dataset/musicdata.txt

18/07/03 05:45:99 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable | 11115|222|0|1|0 | 11113|225|1|0|0 | 11117|223|0|1|1 | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 11115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0|0 | | 1115|225|1|0 | | 1115|225|1|0 | | 1115|225|1|0 | | 1115|225|1|0 | | 1115|225
```

Task 1:

Write a Map Reduce program to find the number of unique listeners in the data set.

Ans:

Run a Job:

hadoop jar task1.jar /dataset/musicdata.txt /hadoopdata/hdfs/out/hands-on/01Jul18/Assignment5/task1

(To run a MR job using created jar file.)

Output Directory:

hadoop fs -ls /hadoopdata/hdfs/out/hands-on/01Jul18/Assignment5/task1

(Listing contents of output directory)

hadoop fs -cat /hadoopdata/hdfs/out/handson/01Jul18/Assignment5/task1/part-r-00000

(Displaying content of Output file)

Note: Program files are properly documented for a detailed description of each instruction used within the program.

ScreenShot:

Task 2:

Write a Map Reduce program to calculate number of times a song was heard fully.

Ans:

Run a Job:

hadoop jar task2.jar /dataset/musicdata.txt /hadoopdata/hdfs/out/hands-on/01Jul18/Assignment5/task2

(To run a MR job using created jar file.)

Output Directory:

hadoop fs -ls /hadoopdata/hdfs/out/hands-on/01Jul18/Assignment5/task2

(Listing contents of output directory)

hadoop fs -cat /hadoopdata/hdfs/out/handson/01Jul18/Assignment5/task2/part-r-00000

(Displaying content of Output file)

Note: Program files are properly documented for a detailed description of each instruction used within the program.

ScreenShot:

```
| Sacadgild@localhost Assignment5|s hadoop | ar task2_jar /dataset/musicdata_txt /hadoopdata/hdfs/out/hands-on/0llul8/Assignment5/task2 8/07/03 05:54:35 INF0 client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032 18/07/03 05:54:35 INF0 client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032 18/07/03 05:54:35 INF0 client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032 18/07/03 05:54:37 INF0 input.FileInputFormat: Total input paths to process: 1 18/07/03 05:54:37 INF0 input.FileInputFormat: Total input paths to process: 1 18/07/03 05:54:37 INF0 input.FileInputFormat: Total input paths to process: 1 18/07/03 05:54:31 INF0 mapreduce.JobSubmitter: number of splits:1 18/07/03 05:54:31 INF0 mapreduce.JobSubmitter: number of splits:1 18/07/03 05:54:31 INF0 mapreduce.JobSubmitter: Submitting tokens for job: job 1530539200724_0040 18/07/03 05:54:38 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1530539200724_0040 18/07/03 05:54:38 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1530539200724_0040 18/07/03 05:54:38 INFO mapreduce.Job: map 100% reduce 0% 18/07/03 05:54:49 INFO mapreduce.Job: map 100% reduce 0% 18/07/03 05:54:49 INFO mapreduce.Job: map 100% reduce 0% 18/07/03 05:55:08 INFO mapreduce.Job: map 100% reduce 0% 18/07/03 05:55:08 INFO mapreduce.Job: map 100% reduce 0% 18/07/03 05:55:08 INFO mapreduce.Job: Job job 1530539200724_0040 completed successfully 18/07/03 05:55:08 INFO mapreduce.Job: counters FILE: Number of bytes read=12 FILE: Number of bytes read=12 FILE: Number of pytes read operations=0 HDFS: Number of bytes written=46 HDFS: Number of bytes written=46 HDFS: Number of pytes writte
```

```
[acadgild@localhost ~]$ hadoop fs -ls /hadoopdata/hdfs/out/hands-on/01Jull8/Assignment5/task2
18/07/03 05:56:11 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 0 2018-07-03 05:55 /hadoopdata/hdfs/out/hands-on/01Jull8/Assignment5/task2/_SUCCESS
-rw-r--r-- 1 acadgild supergroup 46 2018-07-03 05:55 /hadoopdata/hdfs/out/hands-on/01Jull8/Assignment5/task2/part-r-00000
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -cat /hadoopdata/hdfs/out/hands-on/01Jull8/Assignment5/task2/part-r-00000
18/07/03 05:56:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Number of times a song was heard fully is : 1
[acadgild@localhost ~]$
```

Task 3:

Write a Map Reduce program to calculate the number of times a song was shared.

Ans:

Run a Job:

hadoop jar task3.jar /dataset/musicdata.txt /hadoopdata/hdfs/out/hands-on/01Jul18/Assignment5/task3

(To run a MR job using created jar file.)

Output Directory:

hadoop fs -ls /hadoopdata/hdfs/out/hands-on/01Jul18/Assignment5/task3

(Listing contents of output directory)

hadoop fs -cat /hadoopdata/hdfs/out/handson/01Jul18/Assignment5/task3/part-r-00000

(Displaying content of Output file)

Note: Program files are properly documented for a detailed description of each instruction used within the program.

ScreenShot:

```
[acadgild@localhost Assignment5]$ hadoop jar task3.jar /dataset/musicdata.txt /hadoopdata/hdfs/out/hands-on/01Jull8/Assignment5/task3
18/07/03 06:01:26 WARN util.NativeCodeLoader: Unable to load native-hadoop Library for your platform:... using builtin-java classes where applicable
18/07/03 06:01:29 MARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
18/07/03 06:01:29 MARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
18/07/03 06:01:20 IMPO mapreduce.JobSubmitter: Submitting to process: 1
18/07/03 06:01:21 IMPO mapreduce.JobSubmitter: Submitting tokens for job: job. j503539200724 0041
18/07/03 06:01:23 INPO imple varnClientImpl: Submitted application application 1530539200724 0041
18/07/03 06:01:31 INPO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1530539200724_0041
18/07/03 06:01:31 INPO mapreduce.Job: Job job job 1530539200724_0041
18/07/03 06:01:31 INPO mapreduce.Job: Job job job 1530539200724_0041
18/07/03 06:01:32 INPO mapreduce.Job: Job job job 1530539200724_0041
18/07/03 06:01:32 INPO mapreduce.Job: map 100% reduce 0%
18/07/03 06:01:52 INPO mapreduce.Job: map 100% reduce 100%
18/07/03 06:02:03 INPO mapreduce.Job: Job job job 1530539200724_0041 running in uber mode : false
18/07/03 06:02:03 INPO mapreduce.Job: Job job job 1530539200724_0041 running in uber mode : false
18/07/03 06:02:03 INPO mapreduce.Job: Job job job 1530539200724_0041 running in uber mode : false
18/07/03 06:02:03 INPO mapreduce.Job: Job job job 1530539200724_0041 running in uber mode : false
18/07/03 06:02:03 INPO mapreduce.Job: Job job job 1530539200724_0041 running in uber mode : false
18/07/03 06:02:03 INPO mapreduce.Job: Job job job 1530539200724_0041 running in uber mode : false
18/07/03 06:02:03 INPO mapreduce.Job: Job job job 1530539200724
18/07/03
```

```
[acadgild@localhost ~]$ hadoop fs -ls /hadoopdata/hdfs/out/hands-on/BlJull8/Assignment5/task3
18/07/03 06:02:38 WARN util.NativeCodeLoader: unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-TW-T--T-- 1 acadgild supergroup 0 2018-07-03 06:02 /hadoopdata/hdfs/out/hands-on/01Jull8/Assignment5/task3/_SUCCESS
-TW-T--T-- 1 acadgild supergroup 41 2018-07-03 06:02 /hadoopdata/hdfs/out/hands-on/01Jull8/Assignment5/task3/_part-r-00000
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -cat /hadoopdata/hdfs/out/hands-on/01Jull8/Assignment5/task3/part-r-00000
18/07/03 06:03:55 WARN utit.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Number of times a song was shared is : 2
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ||
```

End

