# **Assignment 5 Advance MapReduce**

Task1: Find the no. of unique listners in data set.

## Command

hadoop jar assign5.jar mrTask1.Task1 /mapreduce/musicdata.txt /mapreduce/assign5/task1output

## **Code Snippet**

```
Shuffle
WRONG_REDUCE=0
File Input Format Counters
Bytes Read=68
File Output Format Counters
Bytes Written=18
ave new mail in /var/spool/mail/acadgild
pild@localhost mapreduce|} ■
```

## Output screen shot

```
[acadgild@localhost ~]$ hdfs dfs -cat /mapreduce/assign5/task1output/part-r-000000 19/01/11 18:38:21 WARN util.NativeCodeLoader: Unable to load native-hadoop library 1222 1 223 1 225 2
You have new mail in /var/spool/mail/acadgild [acadgild@localhost ~]$
```

## Task2: Find the no. of time a song was heardfully.

#### Command

hadoop jar assign5.jar mrTask2.Task2 /mapreduce/musicdata.txt /mapreduce/assign5/task2output

## Code Snippet

```
[acadgild@localnost mapreduce]$ hadoop jar assign5.jar mrTask2.Task2 /mapreduce/musicdata.txt /mapreduce/assign5/task2output
19/09/11 18:33:12 MWRW util.MativeCodeLoader: Unable to load native-hadoop library for your platform... using bultin-java classes where applicable
19/09/11 18:33:14 MWRV claim.RMProys; Connecting to ResourceManager at localnost/127.06.dis2031
19/09/11 18:33:14 DWRV mapreduce.JobResourceUnploader: Hadoop command-Line option parsing not performed. Implement the Tool interface and execute your application with
19/09/11 18:33:18 DWFV imput FileInputFormat: Total imput paths to process: 1
19/09/11 18:33:18 DWFV imput FileInputFormat: Total imput paths to process: 1
19/09/11 18:33:18 DWFV imput FileInputFormat: Total imput paths to process: 1
19/09/11 18:33:18 DWFV imput FileInputFormat: Total imput paths to process: 1
19/09/11 18:33:18 DWFV imputeduce.JobStwaitter: Submitting tokens for job: job 15/47166074239 0006
19/09/11 18:33:19 DWFV imputeduce.Jobs: Running job: job.15/47166074239 0006
19/09/11 18:33:19 DWFV imputeduce.Jobs: Running job: job.15/47166074239 0006
19/09/11 18:33:40 DWFV imputeduce.Jobs: map 0% reduce 0%
19/09/11 18:33:40 DWFV imputeduce.Jobs: map 0% reduce 0%
19/09/11 18:33:40 DWFV imputeduce.Jobs: map 0% reduce 0%
19/09/11 18:33:40 DWFV imputeduce.Jobs: map 100% reduce 0%
19/09/1
```

```
Total megabyte-milliseconds taken by all reduce tasks=11868160

Map-Reduce Framework

Map input records=5

Map output tpots=5

Map output bytes=40

Map output materialized bytes=56

Input split bytes=110

Combine output records=0

Combine output records=0

Reduce input groups=3

Reduce shuffle bytes=56

Reduce input records=5

Reduce input records=5

Reduce output records=3

Spilled Records=10

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=324

CPU time spent (ms)=3100

Physical memory (bytes) snapshot=323792896

Virtual memory (bytes) snapshot=418183936

Total committed heap usage (bytes)=222429184

Shuffle Errors

BAD ID=0

CONNECTION=0

NRONG REDUCE=0

File Input Format Counters

Bytes Read=68

File Output Format Counters

Bytes Read=68

File Output Format Counters

Bytes Written=18

You have new mail in /var/spool/mail/acadgild

[acadgild@localhost mapreduce]5
```

### Output screen shot

```
[acadgild@localhost ~]$ hdfs dfs -cat /mapreduce/assign5/task2output/part-r-00000 19/01/11 18:39:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for 222 0 223 1 225 0 [acadgild@localhost ~]$ ■
```

### Task3: Find the no. of times a song was shared.

### Command

hadoop jar assign5.jar mrTask3.Task3 /mapreduce/musicdata.txt /mapreduce/assign5/task3output

### Code Snippet

```
[acadgl@l@localbost mapreduce]s hadoop jar assign5.jar mrTask3.Task3 /mapreduce/musicdata.txt /mapreduce/assign5/task3output
[acadgl@l@localbost mapreduce]s hadoop jar assign5.jar mrTask3.Task3 /mapreduce/musicdata.txt /mapreduce/assign5/task3output
[acadgl@l@localbost.mapreduce]s hadoop jar assign5.jar mrTask3.Task3 /mapreduce/musicdata.txt /mapreduce/assign5/task3output
[acadgl@localbost.mapreduce]s hadoop jar assign5.jar mrTask3.Task3 /mapreduce/musicdata.txt /mapreduce/assign5/task3output
[acadgl@localbost.mapreduce]s document in the control process of the control
```

```
Total megabyte-miliseconds taken by all reduce tasks=12029952

Map.Reduce Framework

Map input records=4

Map output records=6

Map output bytes=48

Map output bytes=48

Map output materialized bytes=66

Input split bytes=110

Combine input records=0

Combine input records=0

Reduce input groups=3

Reduce shuffle bytes=66

Reduce output records=6

Reduce output records=5

Reduce shuffle bytes=66

Reduce output records=3

Spilled Records=12

Shuffled Maps =1

Failed Shuffle=80

Merged Map outputs=1

GC time elapsed (ms)=288

CPU time spent (ms)=2890

Physical memory (bytes) snapshot=30467424

Virtual memory (bytes) snapshot=4118192128

Total committed heap usage (bytes)=2224429184

Shuffle

MONG_ID=0

CONNECTION=0

LONGNOTH=0

WONG_REDUCE=0

File Input Format Counters

Bytes Weitten=18

You have new mail in /ve/spool/mail/acadgild

[acadgild@localhost mapreduce]s
```

### Output screen shot

```
[acadgild@localhost ~]$ hdfs dfs -cat /mapreduce/assign5/task3output/part-r-00000 19/01/11 18:39:43 WARN util.NativeCodeLoader: Unable to load native-hadoop library 222 0 223 0 225 2
You have new mail in /var/spool/mail/acadgild [acadgild@localhost ~]$ ■
```