ASSIGNMENT 5.1

Input Data Set

```
acadgild@localhost~

[acadgild@localhost ~] $ hdfs dfs -cat /user/musicdata.txt

18/02/14 03:27:18 WARN util.NativeCodeLoader: Unable to load native-hadoop library for some state of the second state of the
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Task1: Find the no. of unique listners in data set.

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Launched map tasks=1
        Launched reduce tasks=1
        Data-local map tasks=1
        Total time spent by all maps in occupied slots (ms) =3310
        Total time spent by all reduces in occupied slots (ms)=3546
        Total time spent by all map tasks (ms) =3310
        Total time spent by all reduce tasks (ms)=3546
        Total vcore-milliseconds taken by all map tasks=3310
        Total vcore-milliseconds taken by all reduce tasks=3546
        Total megabyte-milliseconds taken by all map tasks=3389440
        Total megabyte-milliseconds taken by all reduce tasks=3631104
Map-Reduce Framework
       Map input records=4
        Map output records=4
        Map output bytes=32
        Map output materialized bytes=46
        Input split bytes=105
        Combine input records=0
        Combine output records=0
        Reduce input groups=3
        Reduce shuffle bytes=46
        Reduce input records=4
        Reduce output records=3
       Spilled Records=8
       Shuffled Maps =1
        Failed Shuffles=0
        Merged Map outputs=1
       GC time elapsed (ms)=149
        CPU time spent (ms)=1560
        Physical memory (bytes) snapshot=416718848
        Virtual memory (bytes) snapshot=4164886528
        Total committed heap usage (bytes) = 311427072
Shuffle Errors
       BAD_ID=O
        CONNECTION=0
        IO ERROR=0
       WRONG_LENGTH=0
WRONG_MAP=0
        WRONG REDUCE=0
File Input Format Counters
       Bytes Read=70
File Output Format Counters
       Bytes Written=18
```

Output:-

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

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e-milliseconds taken by all reduce tasks=36U55U4
Map-Reduce Framework
         Map input records=4
         Map output records=5
         Map output bytes=40
         Map output materialized bytes=56
         Input split bytes=105
         Combine input records=0
         Combine output records=0
         Reduce input groups=3
Reduce shuffle bytes=56
         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) = 136
         CPU time spent (ms) = 1490
         Physical memory (bytes) snapshot=418312192
Virtual memory (bytes) snapshot=4167532544
Total committed heap usage (bytes)=325058560
Shuffle Errors
         BAD ID=0
         CONNECTION=0
         IO_ERROR=0
         WRONG_LENGTH=0
         WRONG_MAP=0
WRONG_REDUCE=0
File Input Format Counters
        Bytes Read=70
File Output Format Counters
        Bytes Written=18
```

Output:-

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

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```

```
Launched map tasks=1
        Launched reduce tasks=1
        Data-local map tasks=1
        Total time spent by all maps in occupied slots (ms)=3343
        Total time spent by all reduces in occupied slots (ms)=3550 Total time spent by all map tasks (ms)=3343 \,
        Total time spent by all reduce tasks (ms)=3550
        Total vcore-milliseconds taken by all map tasks=3343
        Total vcore-milliseconds taken by all reduce tasks=3550
        Total megabyte-milliseconds taken by all map tasks=3423232
        Total megabyte-milliseconds taken by all reduce tasks=3635200
Map-Reduce Framework
        Map input records=4
        Map output records=6
        Map output bytes=48
        Map output materialized bytes=66
        Input split bytes=105
        Combine input records=0
        Combine output records=0
        Reduce input groups=3
        Reduce shuffle bytes=66
        Reduce input records=6
        Reduce output records=3
        Spilled Records=12
        Shuffled Maps =1
        Failed Shuffles=0
        Merged Map outputs=1
        GC time elapsed (ms)=147
        CPU time spent (ms)=1650
        Physical memory (bytes) snapshot=416935936
        Virtual memory (bytes) snapshot=4165120000
        Total committed heap usage (bytes)=310902784
Shuffle Errors
        BAD_ID=O
        CONNECTION=0
        IO ERROR=0
        WRONG_LENGTH=0
        WRONG_MAP=0
WRONG_REDUCE=0
File Input Format Counters
        Bytes Read=70
File Output Format Counters
        Bytes Written=18
```

Output:-

🧬 acadgild@localhost:~