```
#you can use path as s3a://dsci6007yshah/2018-11-1*-events.json to use only subset obj = spark.read.json(input_bucket)

Took 9 sec. Last updated by anonymous at April 14 2022, 9:41:42 AM. (outdated)
```

```
%spark.pyspark
                                                                                           SPARK JOB FINISHED
 #Top artists
 # Using .map to make key-value pairs of (artist name, 1) or (None, 0) to avoid in counting
 # Using .reduceBvKev to aggregate all (artist name, 1) to (artist name, count)
 counter = obj.rdd.map(lambda event : (event["artist"], 1) if event["artist"] else (None, 0)).\
           reduceBvKev(lambda a.b:a +b)
 # Sorting the key-values by value (i.e. count) in descending order
 # Picking to top 10
 counter = counter.sortBy(lambda a : -a[1]).take(10)
 printfintThetist, 10tattistant)e:\nArtist\t\t\tCount\n')
 for (artist, count) in counter:
The top 10 artists are:
Artist
                        Count
The Black Keys
                         12
Jack Johnson
                         11
Dwight Yoakam
                         10
Coldplay
                         10
The Killers
                         9
```

```
Muse 9
Eminem 8
Linkin Park 8
Radiohead 8

Telepence + The Machine 8
```

Took 4 sec. Last updated by anonymous at April 14 2022, 9:24:43 AM. (outdated)

```
%spark.pyspark
                                                                                              SPARK JOB FINISHED
 #Top songs
 #Following same 4 steps of map, reduceByKey, sort, and take as for top artists
 counter = obj.rdd.map(lambda event : (event["song"], 1) if event["song"] else (None, 0)).\
           reduceByKey(lambda a,b:a + b)
 print(int(hengop'10\tongsount)\nSong\t\t\tCount\n')
 for (song, count) in counter:
The top 10 songs are:
Song
                        Count
You're The One
                         10
Undo
                 6
Invalid
                         5
Bring Me To Life
                                  5
                          5
Secrets
Horn Concerto No. 4 in E flat K495: II. Romance (Andante cantabile)
                                                                                    5
Reprã ©sente
I CAN'T GET STARTED
                                  4
Revelry
                          4
Sehr kosmisch
                          4
Took 11 sec. Last updated by anonymous at April 14 2022, 9:32:00 AM.
```