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# Spark Use Case – The Daily Show



In this blog we will be taking a famous Tv show dataset i.e., The Daily show and we will be performing analysis on the guests who came to the show.

Before going ahead we recommend readers to go through our previous blogs on various publicly available datasets.

[Youtube Data Analysis](#)[Titanic Data Analysis](#)[Olympic Data Analysis](#)

We have a historical data of the daily show guests from 1999 to 2004. The dataset can be downloaded from

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here.

Please find the the dataset description below:

## Dataset Description:

**YEAR** – The year the episode aired

**GoogleKnowlege\_Occupation** -Their occupation or office, according to Google's Knowledge Graph or, if they're not in there, how Stewart introduced them on the program.


**Show** – Air date of episode. Not unique, as some shows had more than one guest

**Group** – A larger group designation for the occupation. For instance, us senators, us presidents, and former presidents are all under "politicians"

**Raw\_Guest\_List** – The person or list of people who appeared on the show, according to Wikipedia. The GoogleKnowlege\_Occupation only refers to one of them in a given row.

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## Problem Statement:

Find the top 5 kinds of GoogleKnowlege\_Occupation people gusted the show in a particular time period.

## Source Code:

```

1 val file = sc.textFile("/home/kiran/dialy_show_guests")
2 val split = file.map(line => line.split(","))
3 val format = new java.text.SimpleDateFormat("MM/dd/yy")
4 val pair = split.map(line => (line(1),format.parse(line(2))))
5 val fil = pair.filter(x => {if(x._2.after(format.parse("1/11/99")) && x._2.before(format.parse("6/11/99")) true else false})
6 val cnt = fil.map(x => (x._1,1)).reduceByKey(_+_).map(item => item.swap).sortByKey(false).take(5)

```

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## Walk through of the above code:

In **line 1** we are creating a new RDD by loading the dataset which is in local file system.

In **line 2** we are splitting the records by using the delimiter as ',' since the data is delimited by ','.

In **line 3** we are declaring the date format by using the java library `java.text.SimpleDateFormat`. In the dataset the data format is "MM/dd/YY".

In **line 4** we are creating a pair of `GoogleKnowlege_Occupation` and `Show(date of the show)`. Here date of the show is taken as a string and we are converting this string to date format using the `parse` method available in `java.text.SimpleDateFormat`.

In **line 5** we are using the filter method to filter out the records which doesn't match our requirement. Here we are giving the range of data explicitly in between we need to count the `GoogleKnowlege_Occupation` people gusted. Here we have given the range as 6 months i.e., from 1/11/99 to 6/11/99.

In **line 6** we will get the data which is in specified range from that we are creating a pair of `GoogleKnowlege_Occupation` and `1` as key value pairs respectively. After that we are performing `reduceByKey` action on the RDD which will count all the values for each unique key. Then we are swapping the `GoogleKnowlege_Occupation` and its `count`, and sorting the result by `sortByKey` operation with this we will get the sorted records of `GoogleKnowlege_Occupation` and its `count` in descending order. Finally, we are taking the top five from the list.

## Output:

**(28,actor), (20,actress), (4,comedian), (3,television actress), (2,stand-up comedian)**

The same is displayed in the below screen shot.

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```
scala> val file = sc.textFile("/home/kiran/daily_show_guests")
file: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[38] at textFile at <console>:21

scala> val split = file.map(line => line.split(","))
split: org.apache.spark.rdd.RDD[Array[String]] = MapPartitionsRDD[39] at map at <console>:23

scala> val format = new java.text.SimpleDateFormat("MM/dd/yy")
format: java.text.SimpleDateFormat = java.text.SimpleDateFormat@7ddd79e0

scala> val pair = split.map(line => (line(1),format.parse(line(2))))
pair: org.apache.spark.rdd.RDD[(String, java.util.Date)] = MapPartitionsRDD[40] at map at <console>:27

scala> val fil = pair.filter(x => ((if(x._2.after(format.parse("1/11/99")) && x._2.before(format.parse("6/11/99")) true else false)))
fil: org.apache.spark.rdd.RDD[(String, java.util.Date)] = MapPartitionsRDD[41] at filter at <console>:29

scala> val cnt = fil.map(x => (x._1,1)).reduceByKey(_+_).map(item => item.swap).sortByKey(false).take(5)
cnt: Array[(Int, String)] = Array((28,actor), (28,actress), (4,comedian), (3,television actress), (2,stand-up comedian))
```

Hope this blog helped you in understanding how to perform analysis data using apache spark in scala with a real time dataset. Keep visiting our site for more updates on Big Data and other technologies.



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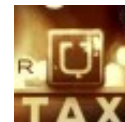
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### KIRAN KRISHNA

Kiran Krishna Innamuri is a Passionate Big Data enthusiast with 2 + years of experience in Hadoop and Spark Development. He is a passionate Java and scala programmer. AcadGild was founded with the vision of "Learn. Do. Earn". We provide skill development courses based on current industry needs. But what sets us apart is earning opportunities we provide after successful completion of course. We also provide live mentoring and 24x7 support. Our mentors are industry thought leaders in their respective fields. We provide courses for Android Programming, Big Data,

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