

Assignment 21.1

Problem Statement:-

Implement the below blog at your end and send the complete documentation.

https://drive.google.com/file/d/0B_Qjau8wv1KobUlaOEtfnEtQNkU/view?usp=sharing

Solution:-

Below is the sample tweets:-

```
[acadgild@localhost hadoop]$ cat tweets.json
{"filter_level":"low","retweeted":false,"in_reply_to_screen_name":"FilmFan","truncated":false,"lang":"en","in_reply_to_status_id_str":null,"id":689085590822891521,"in_reply_to_user_id_str":"6048122","timestamp_ms":"1453125782100","in_reply_to_status_id":null,"created_at":"Mon Jan 18 14:03:02 +0000 2016","favorite_count":0,"place":null,"coordinates":null,"text":"@filmfan hey its time for you guys follow @acadgild To #AchieveMore and participate in contest Win Rs.500 worth vouchers","contributors":null,"geo":null,"entities":{"symbols":[],"urls":[],"hashtags":[{"text":"AchieveMore","indices":[56,68]}],"user_mentions":[{"id":"6048122","name":"Tanya","indices":[0,8],"screen_name":"FilmFan","id_str":"6048122"}, {"id":"2649945906","name":"ACADGILD","indices":[42,51],"screen_name":"acadgild","id_str":"2649945906"}]},{"is_quote_status":false,"source":"<a href='\"https://about.twitter.com/products/tweetdeck\"' rel='\"nofollow\"'>TweetDeck</a>","favorited":false,"in_reply_to_user_id":"6048122","retweet_count":0,"id_str":"689085590822891521","user":{"location":"India ","default_profile":false,"profile_background_tile":false,"statuses_count":86548,"lang":"en","profile_link_color":"940487","profile_banner_url":"https://pbs.twimg.com/profile_banners/197865769/1436198000","id":197865769,"following":null,"protected":false,"favourites_count":1002,"profile_text_color":"000000","verified":false,"description":"Proud Indian, Digital Marketing Consultant,Traveler, Foodie, Adventurer, Data Architect, Movie Lover, Namo Fan","contributors_enabled":false,"profile_sidebar_border_color":"000000","name":"Bahubali","profile_background_color":"000000","created_at":"Sat Oct 02 17:41:02 +0000 2010","default_profile_image":false,"followers_count":4467,"profile_image_url_https":"https://pbs.twimg.com/profile_images/664486535040000000/G0jDUiUK_normal.jpg","geo_enabled":true,"profile_background_image_url":"http://abs.twimg.com/images/themes/theme1/bg.png","profile_background_image_url_https":"https://abs.twimg.com/images/themes/theme1/bg.png","follow_request_sent":null,"url":null,"utc_offset":19800,"time_zone":"Chennai","notifications":null,"profile_use_background_image":false,"friends_count":810,"profile_sidebar_fill_color":"000000","screen_name":"Ashok_Uppuluri","id_str":"197865769","profile_image_url":"http://pbs.twimg.com/profile_images/664486535040000000/G0jDUiUK_normal.jpg","listed_count":50,"is_translator":false}}
[acadgild@localhost hadoop]$
```

Source Code:-

- val tweets =
spark.read.json("file:///home/acadgild/hadoop/tweets.json").registerTempTable("tweets")
- val hashtags = spark.sql("select id as id,entities.hashtags.text as words
from tweets").registerTempTable("hashtags")
- val hashtag_word = spark.sql("select id as id,hashtag from hashtags
LATERAL VIEW explode(words) w as
hashtag").registerTempTable("hashtag_word")

- `val popular_hashtags = spark.sql("select hashtag, count(hashtag) as cnt from hashtag_word group by hashtag order by cnt desc").show`

Screenshots:-

```
scala> val tweets = spark.read.json("file:///home/acadgild/hadoop/tweets.json").registerTempTable("tweets")
warning: there was one deprecation warning; re-run with -deprecation for details
tweets: Unit = ()

scala> val hashtags = spark.sql("select id as id,entities.hashtags.text as words from tweets").registerTempTable("hashtags")
warning: there was one deprecation warning; re-run with -deprecation for details
hashtags: Unit = ()

scala> val hashtag_word = spark.sql("select id as id,hashtag from hashtags LATERAL VIEW explode(words) w as hashtag").registerTempTable("hashtag_word")
warning: there was one deprecation warning; re-run with -deprecation for details
hashtag_word: Unit = ()

scala> val popular_hashtags = spark.sql("select hashtag, count(hashtag) as cnt from hashtag_word group by hashtag order by cnt desc").show
+-----+-----+
|  hashtag|cnt|
+-----+-----+
|AchieveMore| 1|
+-----+-----+

popular_hashtags: Unit = ()

scala> █
```

Submitted By:-

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