Bigdata Assignment 7.2

Sentiment analysis on demonetization

Let us find out the views of different people on the demonetization by analysing the tweets from twitter. Here is the dataset where twitter tweets are gathered in CSV format. You can download the dataset from the below link

https://drive.google.com/open?id=0ByJLBTmJojjzNkRsZWJiY1VGc28

Solution -

//Loaded the csv file

```
val tweets = sc.textFile("file:///home/acadgild/RITESH/7.2/demonetization-tweets.csv").map(x => x.split(",")).filter(x=>x.length>=2).map(x => (x(0).replaceAll("\"",""),x(1).replaceAll("\"","").toLowerCase)).map(x => (x._1,x._2.split(" "))).toDF("id","words")
```

//stored the header

```
val header = tweets.first
```

//Removed the header

```
val tweets_noheader = tweets.filter(row=> row!=header)
```

//Convert dataframe into table

```
tweets_noheader.registerTempTable("tweets")
```

//Create an array of words

```
val explode = spark.sql("select id as id,explode(words) as word from tweets").registerTempTable("tweet_word")
```

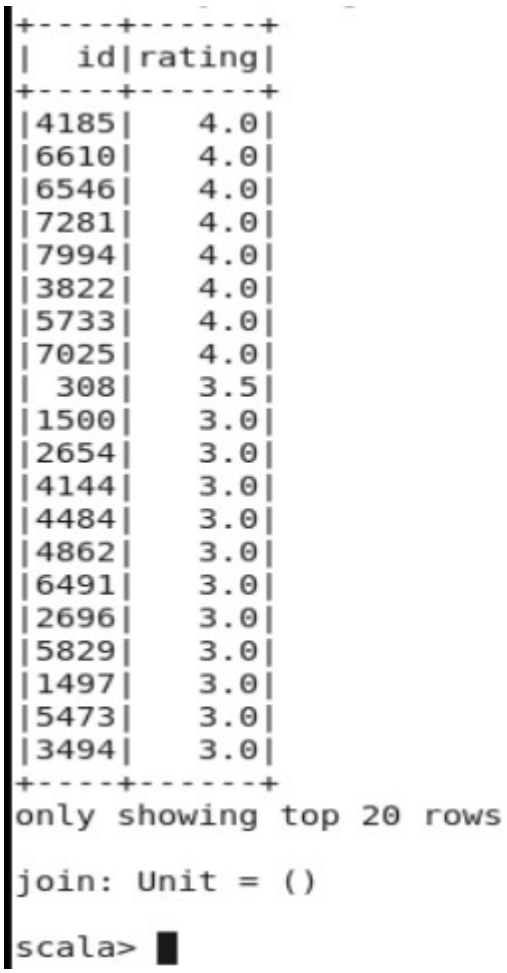
//Load affin.txt file

val affin = sc.textFile(“file:///home/acadgild/RITESH/7.2/AFINN.txt").map(x=>x.split("\t")).map(x=>(x(0),x(1))).toDF("word","rating").registerTempTable("afinn")

//Perform a join operation to calculate avg rating and then sorted the ratings in descending order.

val join = spark.sql("select t.id,AVG(a.rating) as rating from tweet_word t join afinn a on t.word=a.word group by t.id order by rating desc").show

Output -



```
+----+------+
|  id|rating|
+----+------+
|4185|   4.0|
|6610|   4.0|
|6546|   4.0|
|7281|   4.0|
|7994|   4.0|
|3822|   4.0|
|5733|   4.0|
|7025|   4.0|
| 308|   3.5|
|1500|   3.0|
|2654|   3.0|
|4144|   3.0|
|4484|   3.0|
|4862|   3.0|
|6491|   3.0|
|2696|   3.0|
|5829|   3.0|
|1497|   3.0|
|5473|   3.0|
|3494|   3.0|
+----+------+
only showing top 20 rows

join: Unit = ()

scala>
```

For each tweet , we got the rating.