Assignment 22.2:

Problem Statement:

Downloaded the dataset demonetization-tweets.csv and AFFIN.txt and loaded in the local file

1. First we will read the csv file and then split the columns to get and create a DataFrame.

Also, we will create a temporary table named tweets

```
val tweets = sc.textFile("/home/acadgild/sumona/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").registerTempTable("tweets")
scala> val tweets = sc.textFile("/home/acadgild/spark/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")
tweets: org.apache.spark.sql.DataFrame = [id: string, words: array<string>]
scala> tweets.registerTempTable("tweets")
warning: there was one deprecation warning; re-run with -deprecation for details
```

2. Now from the above temporary table we will select the ID, words and form another

```
temporary table tweet_word
```

cala>

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

tweets").registerTempTable("tweet_word")

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

3. Here we will read the AFFIN file and create a temporary table affin

```
\label{eq:continuous} $$ val a finn = sc.textFile("/home/acadgild/sumona/AFINN.txt").map(x => x.split("\t")).map(x => (x(0),x(1))).toDF("word","rating").registerTempTable("afinn")
```

Then we will join both the tables tweet_word and affin and get the views of different people

on demonetization

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