## Session 20 Assignment 2

Twitter Sentiment Analysis Using Spark

//First read the input data file.

```
val tweets =
```

 $sc.textFile("/home/bigdata/deepak/docs/Acadgild/Session20Assignment2/demonetization-tweets.csv").map(x => x.split(",")).filter(x=>x.length>=2).map(x => (x(0).replaceAll("\"",""),x(1).replaceAll("\"","").toLowerCase)).map(x => (x._1,x._2.split(""))).toDF("id","words")$ 

scala> val tweets = sc.textFile("/home/bigdata/deepak/docs/Acadgild/Session20Assignment2/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 = [did string, words: arraystrings]

tweets.registerTempTable("tweets")

```
scala> tweets.registerTempTable("tweets")
warning: there was one deprecation warning; re-run with -deprecation for details
```

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>
```

val afinn =

 $sc.textFile("/home/bigdata/deepak/docs/Acadgild/Session20Assignment2/AFINN.txt").map(x => x.split("\t")).map(x => (x(0),x(1))).toDF("word","rating").registerTempTable("afinn")$ 

```
scala> val afinn = sc.textFile("/home/bigdata/deepak/docs/Acadgild/Session20Assignment2/AFINN.txt").map(x => x.split("\t")).map(x => (x(0),x(1))).toDF("word"," rating").registerTempTable("afinn")
warning: there was one deprecation warning; re-run with -deprecation for details
afinn: Unit = ()
scala>
```

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