Zeppelin

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 import org.apache.spark.streaming._
 import org.apache.spark.streaming.twitter._
 import org.apache.spark.storage.StorageLevel
 import scala.io.Source
 import scala.collection.mutable.HashMap
 import java.io.File
 import org.apache.log4j.Logger
 import org.apache.log4j.Level
 import sys.process.stringSegToProcess
import org.apache.spark.streaming._
import org.apache.spark.streaming.twitter._
import org.apache.spark.storage.StorageLevel
import scala.io.Source
import scala.collection.mutable.HashMap
import java.io.File
import org.apache.log4j.Logger
import org.apache.log4j.Level
import sys.process.stringSeqToProcess
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/** Configures the Oauth Credentials for accessing Twitter */
 def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, acc
   val configs = new HashMap[String, String] ++= Seq(
     "apiKey" -> apiKey, "apiSecret" -> apiSecret, "accessToken" -> accessToken, "accessToke
   println("Configuring Twitter OAuth")
   configs.foreach{ case(key, value) =>
     if (value.trim.isEmpty) {
       throw new Exception("Error setting authentication - value for " + key + " not set")
     val fullKey = "twitter4j.oauth." + key.replace("api", "consumer")
     System.setProperty(fullKey, value.trim)
     println("\tProperty " + fullKey + " set as [" + value.trim + "]")
  println()
}
configureTwitterCredentials: (apiKey: String, apiSecret: String, accessToken: String, access
sTokenSecret: String)Unit
```

```
// Configure Twitter credentials
val apiKey = "EbUV10ej9fLhmncj19IGvlXSf"
val apiSecret = "BbwOwL0gUyH3rPdIfE9WhCmu2wkbXqv2AukanQBD2pCtHob7M5"
val accessToken = "702953416281231362-MF8RPsZ7zcd1M9GhmnwkgTsncGKbpiD"
val accessTokenSecret = "W1aeYnbLrQa1a8xa9geXLPYDrsgMCQFL9Y7NsOUgk52il"
```

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configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)
import org.apache.spark.streaming.twitter._
val ssc = new StreamingContext(sc, Seconds(2))
val tweets = TwitterUtils.createStream(ssc, None)
val twt = tweets.window(Seconds(60))
case class Tweet(createdAt:Long, text:String)
twt.map(status=>
  Tweet(status.getCreatedAt().getTime()/1000, status.getText())
).foreachRDD(rdd=>
  // Below line works only in spark 1.3.0.
  // For spark 1.1.x and spark 1.2.x,
  // use rdd.registerTempTable("tweets") instead.
  rdd.toDF().registerTempTable("tweets")
)
twt.print
SSC Start()
```

StatusJSONImpl{createdAt=Thu Jan 26 19:24:56 EST 2017, id=824775161182314497, text='long **₹**e g teen nude https://t.co/2gN55BgNpQ', source='T witter Web Client', isTruncated=false, inReplyToStatusId=-1, inReplyToUserId=-1, isFavo rited=false, isRetweeted=false, favoriteCount=0, inReplyToScreenName='null', geoLocation=nu ll, place=null, retweetCount=0, isPossiblySensitive=false, lang='nl', contributorsIDs=[], r etweetedStatus=null, userMentionEntities=[], urlEntities=[URLEntityJSONImpl{url='https://t. co/2gN55BgNpQ', expandedURL='https://goo.gl/vJvoj7', displayURL='goo.gl/vJvoj7'}], hashtagE ntities=[], mediaEntities=[], symbolEntities=[], currentUserRetweetId=-1, user=UserJSONImpl {id=258015287, name='Danielle Henderson', screenName='AsiaPasia', location='null', descript ion='null', isContributorsEnabled=false, profileImageUrl='http://pbs.twimg.com/profile_imag es/1264426767/DSCN7462fds_normal.jpg', profileImageUrlHttps='https://pbs.twimg.com/profile_ images/1264426767/DSCN7462fds_normal.jpg', isDefaultProfileImage=false, url='null', isProte cted=false, followersCount=2, status=null, profileBackgroundColor='C0DEED', profileTextColo r='333333', profileLinkColor='0084B4', profileSidebarFillColor='DDEEF6', profileSidebarBord erColor='CODEED', profileUseBackgroundImage=true, isDefaultProfile=false, showAllInlineMedi a=false, friendsCount=4, createdAt=Sat Feb 26 14:39:00 EST 2011, favouritesCount=0, utcOffs et=-1, timeZone='null', profileBackgroundImageUrl='http://pbs.twimg.com/profile_background_ images/206012810/+habacknack_close ina! nrofileRackaroundTmagelln]H++ns_!h++ns.//nhs +wife

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%sql select * from tweets where text like '%Donald Trump%' limit 60

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createdAt	text
1,485,476,169	RT @OwenJones84: Unlike Donald Trump the majority of the British public are decent p
1,485,476,189	Absolutely unbelievable "@GQMagazine: Donald Trump is discovering creative new w

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                 <u>.</u>₩
    <u>lılıl</u>
createdAt
1,485,476,415
1,485,476,416
1,485,476,417
1,485,476,418
1,485,476,419
1,485,476,420
1,485,476,421
1,485,476,422
1.485.476.423
```

```
)
     )
     negative.foreach(p=>
         words.foreach(w=>
             if(p==w) st = st-1
         )
     )
     if(st>0)
         "positivie"
     else if(st<0)
         "negative"
     else
         "neutral"
sentiment: (s: String)String
                                                                           FINISHED ▷ 兆 圓 ��
// Below line works only in spark 1.3.0.
// For spark 1.1.x and spark 1.2.x,
// use sqlc.registerFunction("sentiment", sentiment _) instead.
sqlc.udf.register("sentiment", sentiment _)
res27: org.apache.spark.sql.expressions.UserDefinedFunction = UserDefinedFunction(<function
1>,StringType,Some(List(StringType)))
| %sql select sentiment(text), count(1) from tweets where text like '%Donald frump%' jgroup b
                     ✓
 \blacksquare
      lib
                          <u>.::</u>
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words.foreach(w =>

UDF(text)

neutral

positivie

if(p==w) st = st+1