```
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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.stringSeqToProcess
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
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Took 10 sec. Last updated by anonymous at January 26 2017, 7:12:06 PM.

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/** Configures the Oauth Credentials for accessing Twitter */
 def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, access
   val configs = new HashMap[String, String] ++= Seq(
     apiKey" -> apiKey, "apiSecret" -> apiSecret, "accessToken" -> accessToken, "accessTokenSe
   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, accessTo
kenSecret: String)Unit
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```

```
// Configure Twitter credentials
val apiKey = "eRYQFIrPPqNgqTaWFnB6HMIrA"
val apiSecret = "TaH0eED40J8iP5M06PWckYz8RhZ0qx8JLCbfESrYqeUDWLfgik"
val accessToken = "823235947311595520-CRm8gK5STlzf6krBZE2zFQxFgr3V7NW"
val accessTokenSecret = "UZeg9cyuRqKcqemTX2Zexqyxt6YuBpLzzQVnAPSsvr6wz"
configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)
```

```
apiKey: String = eRYQFIrPPqNgqTaWFnB6HMIrA
  apiSecret: String = TaH0eED40J8iP5M06PWckYz8RhZ0qx8JLCbfESrYqeUDWLfgik
  accessToken: String = 823235947311595520-CRm8gK5STlzf6krBZE2zFQxFgr3V7NW
  accessTokenSecret: String = UZeg9cyuRqKcqemTX2Zexqyxt6YuBpLzzQVnAPSsvr6wz
  Configuring Twitter OAuth
          Property twitter4j.oauth.consumerKey set as [eRYQFIrPPqNgqTaWFnB6HMIrA]
          Property twitter4j.oauth.accessToken set as [823235947311595520-CRm8gK5STlzf6krBZE2zFQ
  xFar3V7NW7
          Property twitter4j.oauth.consumerSecret set as [TaH0eED40J8iP5M06PWckYz8RhZ0qx8JLCbfES
  rYqeUDWLfgik]
          Property twitter4j.oauth.accessTokenSecret set as [UZeg9cyuRqKcqemTX2Zexqyxt6YuBpLzzQV
  nAPSsvr6wz]
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   import org.apache.spark.streaming.twitter._
   val ssc = new StreamingContext(sc, Seconds(2))
   val tweets = TwitterUtils.createStream(ssc, None)
  val twt = tweets.window(Seconds(300))
  import org.apache.spark.streaming.twitter._
  ssc: org.apache.spark.streaming.StreamingContext = org.apache.spark.streaming.StreamingContext
  @2c9e3bc9
         org.apache_spark.stredming.dstream.ReceiverInputDStream[twitter4j.Status] = org.apach
  tweets:
    STre206g. LWVIII Contined Ontitled Ontitled Untitled Untitled Untitled Untitled Untitled Untitled Untitled
       ozeppennstreaming.dstream.DStream[twitter4j.Status] = org.apache.spark.streamin
  a.dstream.WindowedDStream@746d91d6
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                                                                      ②

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   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()
  r.com/', isProtected=false, followersCount=3685, status=null, profileBackgroundColor='FFFFF 1
  F', profileTextColor='333333', profileLinkColor='ABB8C2', profileSidebarFillColor='FFFFFF',
  profileSidebarBorderColor='FFFFFF', profileUseBackgroundImage=true, isDefaultProfile=false,
   showAllInlineMedia=false, friendsCount=738, createdAt=Tue Mar 23 16:36:22 EDT 2010, favouri
  tesCount=1985, utcOffset=-7200, timeZone='Brasilia', profileBackgroundImageUrl='http://pbs.t
  wimg.com/profile_background_images/571486663839186944/FzZIYYDb.png', profileBackgroundImageU
  rlHttps='https://pbs.twimq.com/profile_background_images/571486663839186944/FzZIYYDb.png', p
  rofileBackgroundTiled=false, lang='pt', statusesCount=45464, isGeoEnabled=true, isVerified=f
  alse, translator=false, listedCount=27, isFollowRequestSent=false, withheldInCountries=nul
  l}, withHeldInCountries=null, quotedStatusId=-1, quotedStatus=null}
  StatusJSONImpl{createdAt=Thu Jan 26 19:12:29 EST 2017, id=824772028007841793, text='puceta d
  e Internet', source='<a href="http://twitter.com/download/android" rel="nofollow">Twitter fo
  r Android</a>', isTruncated=false, inReplyToStatusId=-1, inReplyToUserId=-1, isFavorited=fal
```

se. isRetweeted=false. favoriteCount=0. inReplvToScreenName='null'. aeoLocation=null. place=

null, retweetCount=0, isPossiblySensitive=false, lang='es', contributorsIDs=[], retweetedStatus=null, userMentionEntities=[], urlEntities=[], hashtagEntities=[], mediaEntities=[], symbolEntities=[], currentUserRetweetId=-1, user=UserJSONImpl{id=2759265044, name='jenipapo', scaphama 'lmisnaka' lasstion '#bisquad' description 'i Enlammissa to be your umbnolls what Took 1 sec. Last updated by anonymous at January 26 2017, 7:12:29 PM.

%sql select * from tweets where text like '%trump%' limit 100 FINISHED ▷ 茉 国 ��

text

1,485,475,952

RT @PgzU46: @Yes_Donaldtrump ひっ、広島県社

1,485,475,956

RT @iowa_trump: Stop Soros

Just a few of his evil deeds.... https://t.co/bJgNeR4aVA

1,485,475,967

RT @Linda65542703: @NBCNews because they

1,485,475,971

@realDonaldTrump You make me sick to my ston

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me:https://t.co/wSRK0oLCVg

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Sql select createdAt, count(1) from tweets group by createdAt order by createdAt

CreatedAt

1,485,475,949

1,485,475,949

1,485,475,950

1,485,475,951

1,485,475,952

1,485,475,953

1,485,475,954

1,485,475,955

1,485,475,956

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```
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     def sentiment(s:String) : String = {
         val positive = Array("like", "love", "good", "great", "happy", "cool", "the", "one", "that
         val negative = Array("hate", "bad", "stupid", "is", "idiot", "crap", "bitchy")
         var st = 0;
         val words = s.split(" ")
         positive.foreach(p =>
             words.foreach(w =>
                 if(p==w) st = st+1
         )
         negative.foreach(p=>
             words.foreach(w=>
                 if(p==w) st = st-1
             )
         if(st>0)
             "positivie"
         else if(st<0)
              "negative"
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          Zeppelin
  ②
                                                                                             default ▼
     // use sqlc.registerFunction("sentiment", sentiment _) instead.
    sqlc.udf.register("sentiment", sentiment _)
    sentiment: (s: String)String
    res11: org.apache.spark.sql.expressions.UserDefinedFunction = UserDefinedFunction(<function1>,
    StringType,Some(List(StringType)))
    Took 1 sec. Last updated by anonymous at January 26 2017, 7:13:30 PM.
                                                                               FINISHED ▷ 光 圓 ۞
     %sal
     select sentiment(text), count(1) from tweets where text like '%trump%' group by sentiment(text
     \blacksquare
          <u>lılıl</u>
                        ~
                             战
    UDF(text)
    neutral
```

positivie

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