```
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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
Wind Individual เป็นให้tled Untitled U
             PrZeppelin J. Logger
                            apache.10g4j.Level
      import sys.process.stringSeqToProcess
                                 ②
                                                                                                                                                                                                        default ▼
    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
   Took 21 sec. Last updated by anonymous at January 26 2017, 8:11:22 PM.
                                                                                                                                                                         FINISHED ▷ 光 圓 ��
      /** 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
   Took 3 sec. Last updated by anonymous at January 26 2017, 8:11:45 PM.
                                                                                                                                                                         FINISHED ▷ ♯ 圓 �
     // Configure Twitter credentials
```

val apiKey = "6ctIQcR86J01ZSKn0CnhlR0sU"

val apiSecret = "Er6kkJs9hTDDxIGaZqfqhRLlJKoKuzIEUFmyNMHCgBbnOCbuGK"
val accessToken = "4449882683-ixkwyThMpDggZvmoF3c4vyJ5GkMzuZDbj7r3CGG"
val accessTokenSecret = "SnBQUH9pONnKMqtyC2IEmGq3ngtcwNAzSDXVlQLEvvgeX"

```
apiKey: String = 6ctIQcR86J01ZSKn0CnhlR0sU

apiSecret: String = Er6kkJs9hTDDxIGaZqfqhRLlJKoKuzIEUFmyNMHCgBbn0CbuGK

accessToken: String = 4449882683-ixkwyThMpDggZvmoF3c4vyJ5GkMzuZDbj7r3CGG

accessTokenSecret: String = SnBQUH9pONnKMqtyC2IEmGq3ngtcwNAzSDXVlQLEvvgeX

Configuring Twitter OAuth

Property twitter4j.oauth.consumerKey set as [6ctIQcR86J01ZSKn0CnhlR0sU]

Property twitter4j.oauth.accessToken set as [4449882683-ixkwyThMpDggZvmoF3c4vyJ5GkMzuZ

Dbj7r3CGG]

Property twitter4j.oauth.consumerSecret set as [Er6kkJs9hTDDxIGaZqfqhRLlJKoKuzIEUFmyNM HCgBbn0CbuGK]

Property twitter4j.oauth.accessTokenSecret set as [SnBQUH9pONnKMqtyC2IEmGq3ngtcwNAzSDX VlQLEvvgeX]

**Zeppelin**

**Zeppelin**

**Zeppelin**

**Signature*

**Signa
```

```
Twitterg.apache.spark.streaming.twitter._
ssc: org.apache.spark.streaming.StreamingContext eda9d0d5
tweets: org.apache.spark.streaming.dstream.ReceiverInputDStream[twitter4j.Status] = org.apache.spark.streaming.twitter.TwitterInputDStream[twitter4j.Status] = org.apache.spark.streaming.dstream.DStream[twitter4j.Status] = org.apache.spark.streaming.dstream.DStreaming.dstream.DStreaming.dstream.DStreaming.dstream.DStreaming.dstream.DStreaming.dstream.DStreaming.dstream.DStreaming.dstream.DStreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstreaming.dstre
```

aigames.channel.or.jp/list/one_main/tc/" rel="nofollow">ONE PIECE トレジャークルーズ', isTr↓ uncated=false, inReplyToStatusId=-1, inReplyToUserId=-1, isFavorited=false, isRetweeted=fals e, favoriteCount=0, inReplyToScreenName='null', geoLocation=null, place=null, retweetCount= 0, isPossiblySensitive=false, lang='ja', contributorsIDs=[], retweetedStatus=null, userMenti onEntities=[], urlEntities=[URLEntityJSONImpl{url='https://t.co/FbbuVJ20bh', expandedURL='ht tp://bnent.jp/optw/', displayURL='bnent.jp/optw/'}], hashtagEntities=[HashtagEntityJSONImpl {text='トレクル'}], mediaEntities=[MediaEntityJSONImpl{id=824788967346233344, url=https://t.c o/SdgxiKUw9A, mediaURL=http://pbs.twimg.com/media/C3I9MiVVYAAsBI8.jpg, mediaURLHttps=http s://pbs.twimg.com/media/C3I9MiVVYAAsBI8.jpg, expandedURL=https://twitter.com/chaosrose54/sta tus/824788968835145728/photo/1, displayURL='pic.twitter.com/SdgxiKUw9A', sizes={0=Size{width =150, height=150, resize=101}, 1=Size{width=480, height=180, resize=100}, 2=Size{width=480, height=180, resize=100}, 3=Size{width=480, height=180, resize=100}}, type=photo}], symbolEn tities=[], currentUserRetweetId=-1, user=UserJSONImpl{id=760890865392898048, name='반춘호', s creenName='chaosrose54', location='null', description='null', isContributorsEnabled=false, p rofileImageUrl='http://abs.twimg.com/sticky/default_profile_images/default_profile_4_normal. png', profileImageUrlHttps='https://abs.twimg.com/sticky/default_profile_images/default_prof icNafaul+DrofilaTmaga_+rua url_'null' icDrotactad_falca

Took 5 sec. Last updated by anonymous at January 26 2017, 8:19:46 PM.

%sql

select * from tweets where text like '%Trump%' limit 10



createdAt text

1,485,479,989 RT @PeterAlexander: NEW: Because of delay in Trump's return to WH, executive action callir

1,485,479,989 RT @weeklyresisters: But we already know Trump wants a turn-back-the-clock extremist. Ou

1,485,479,990 @br8veheart @Twitter @Support He's not retired, just an anti-Trump stalker.>>@AG2Pearl

Thanks for your service.1485479990 RT @cnalive: President Donald Trump restores ban on fe deral funding of NGOs that perform overseas abortions https://t.co/UU3FNoWXJj #ProLife14854799 91 Well done, @Jabadahub25! Now ppl will power up @GIMP_Official making memes of @Lauren_ Southern calling things anti-Trump... CC @thunderf00t1485479993 RT @ACLU: No, Stephen Bannon, the media should not "keep its mouth shut" and if the Trump administration tries, we'll see the... 1485479994 @PhillyEaglez10 @DemsTalk @POTUS @WhiteHouse and replace "their" with "they'r e" - sorry, what were you saying about Trump's education ideas?1485479997 Some of us never did. Even though Trump's devotion should have us all rethinking it. Don't blame me:... https://t.co/CmHslhtNcs1485480001 RT @VicenteFoxQue: @realDonaldTrump's ego monument real cost is around 25 billion USD. I ask you, America, what would you prefer instead of...1485480001

RT @IjeomaOluo: SEATTLE: stand with our immigrant friends & neighbors against the hatr ed & bigotry of the Trump administration:https://t.c...

Took 1 sec. Last updated by anonymous at January 26 2017, 8:20:32 PM.

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createdAt	count(1)
1,485,479,988	2
1,485,479,989	32
1,485,479,990	43
1,485,479,991	36
1,485,479,992	38
1,485,479,993	39
1,485,479,994	35
1,485,479,995	43
1.485.479.996	32
Took 5 sec. Last updated by anonymous at January 26 2017, 8:20:53 PM.	

```
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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")
    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"
    else
         "neutral"
}
// 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 _)
```

sentiment: (s: String)String

res11: org.apache.spark.sql.expressions.UserDefinedFunction = UserDefinedFunction(<function1>,

StringType,Some(List(StringType)))

Took 2 sec. Last updated by anonymous at January 26 2017, 8:21:12 PM.

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sele	ect s	entim	ent(t	text)	, cou	nt((1)	from	tweets	where	text	like	'%trump%'	group	by	senti	ment(text
			I) (_			
▦	ılıl	G		<u>~~</u>	<u>.*</u>		<u>+</u>	-										

UDF(text)	count(1)
neutral	3
negative	2
positivie	1

Took 2 sec. Last updated by anonymous at January 26 2017, 8:21:37 PM.

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