```
// Imports
import org.apache.spark.sql.functions._
import org.joda.time.format.DateTimeFormat

import org.apache.spark.sql.functions._
import org.joda.time.format.DateTimeFormat

Took 18 sec. Last updated by anonymous at January 26 2017, 7:34:52 PM.
```

```
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
import org.apache.log4j.Level
import sys.process.stringSegToProcess
Took 4 sec. Last updated by anonymous at January 26 2017, 7:37:22 PM.
```

```
FINISHED ▷ ¾ Ⅲ ∰
/** Configures the Oauth Credentials for accessing Twitter */
def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, access
  val configs = new HashMap[String, String] ++= Seq(
    "apiKey" -> "T2PesobmMCiumfMkmGCXWJCFQ", "apiSecret" -> "4WTbM8qilVuN8Kx7awPHFJLjZkA6zydul
dAeiz1YVUAvVoci", "accessTokenSecret" -> "Mn9aSxuyphbyHvT2wGgqyfWnPUDViHVHh7sBqWRlM6273")
  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()
}
```

```
configure Twitter Credentials: (apiKey: String, apiSecret: String, access Token: String, access Token: String) Unit\\
```

Took 3 sec. Last updated by anonymous at January 26 2017, 7:41:44 PM.

```
FINISHED ▷ 💥 🗐 🕸
val apiKey = "T2PesobmMCiumfMkmGCXWJCFQ"
val apiSecret = "4WTbM8qilVuN8Kx7awPHFJLjZkA6zydubpuEqntUp8hhl0yVyr"
val accessToken = "2802028332-F50FdJKkD8zXsfGPyKt7qV4adAeiz1YVUAvVoci"
val accessTokenSecret = "Mn9aSxuyphbyHvT2wGqqyfWnPUDViHVHh7sBqWRlM6273"
configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)
apiKey: String = T2PesobmMCiumfMkmGCXWJCFQ
apiSecret: String = 4WTbM8qilVuN8Kx7awPHFJLjZkA6zydubpuEqntUp8hhl0yVyr
accessToken: String = 2802028332-F50FdJKkD8zXsfGPyKt7qV4adAeiz1YVUAvVoci
accessTokenSecret: String = Mn9aSxuyphbyHvT2wGqayfWnPUDViHVHh7sBqWRlM6273
Configuring Twitter OAuth
        Property twitter4j.oauth.consumerKey set as [T2PesobmMCiumfMkmGCXWJCFQ]
        Property twitter4j.oauth.accessToken set as [2802028332-F50FdJKkD8zXsfGPyKt7aV4adAeiz1
YVUAvVoci]
        Property twitter4j.oauth.consumerSecret set as [4WTbM8qilVuN8Kx7awPHFJLjZkA6zydubpuEqn
tUp8hhl0yVyr]
        Property twitter4j.oauth.accessTokenSecret set as [Mn9aSxuyphbyHvT2wGgqyfWnPUDViHVHh7s
BqWR1M6273]
Took 2 sec. Last updated by anonymous at January 26 2017, 7:43:47 PM.
```

```
FINISHED ▷ ¾ Ⅲ ∰
/** 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 1 sec. Last updated by anonymous at January 26 2017, 7:44:00 PM.

```
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=>
FINISHED ▷ ※ ⑤
```

```
// 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
```

='ja', statusesCount=191, isGeoEnabled=false, isVerified=false, translator=false, listedCount=0, isFollowRequestSent=false, withheldInCountries=null}, withHeldInCountries=null, quotedStatusId=-1, quotedStatus=null}

StatusJSONImpl{createdAt=Thu Jan 26 19:46:35 EST 2017, id=824780609553719296, text='@ama_nomiz u924

ちょっと微妙に違うかな?

これは昭和レトロと言うより大正モダンですね!でも昭和レトロも色々描きましたー!発掘しないと直ぐには出せませんが、 いいですよね昭和レトロ。

(o'\)

体調大丈夫ですか? 風邪も流行っておりますのでお大事になさって下さい', source='Twitter for iPhone', isTruncated=false, inReplyToStatusId=-1, inReplyToUserId=801044506288062464, isFavorited=false, isRetweeted=false, favoriteCount=0, inReplyToScreenName='ama_nomizu924', geoLocation=null, place=null, retweetCount=0, isPossibly Sensitive=false, lang='ja', contributorsIDs=[], retweetedStatus=null, userMentionEntities=[Use rMentionEntityJSONImpl{name='天/水@固定ツイにて企画中', screenName='ama_nomizu924', id=80104450628 8062464}], urlEntities=[], hashtagEntities=[], mediaEntities=[], symbolEntities=[], currentUse rRetweetId=-1, user=UserJSONImpl{id=819554581621264386, name='松本コウ', screenName='oyakoukoud

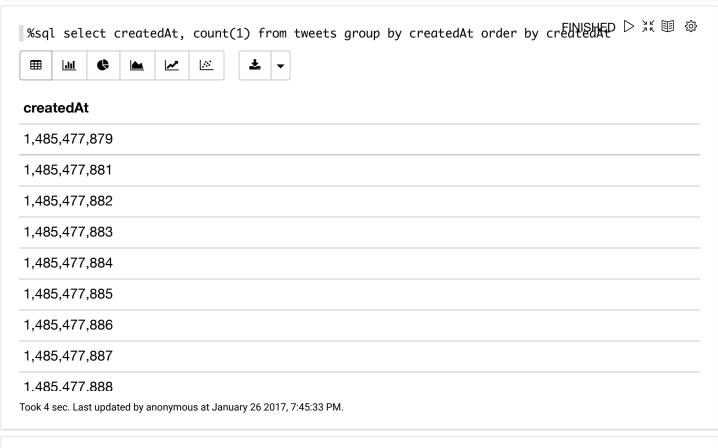
Took 6 sec. Last updated by anonymous at January 26 2017, 7:44:39 PM.

| Sentiment_Vivek | Untitled | Un

createdAt	text
1,485,477,882	#mexican teen sex scandal videos chubby school girl https://t.co/hPavDM7k0N
1,485,477,884	RT @zaurenfool: black!!! girl!!! magic!!! https://t.co/G6X9jxjPqf
1,485,477,886	The next girl i date has to be into beer. Who else could I talk to about these bourbon barre
1,485,477,895	RT @thefirstnoel123: @maxinemedina i love you maxine. You made me cry last night! Lab
1,485,477,896	RT @snoopmaya: Istg no girl can make me feel inferior to them
1,485,477,898	This little girl gave me the greatest boost today! She is an "old soul"! #weallneedafriend.

https://t.co/7rbkNwHAIj1485477898 RT @valpvcinox: Nah they mean the dark girls with 4c h air, you knew https://t.co/BDwd0YMLHk1485477899 RT @girlposts: THIS https://t.co/FtfnePtcwk148 5477899 Got me a big girl car today. Huge thanks to my Uncle Steve at McDonald Ford for search ing long... https://t.co/u1p6yVKk051485477900 women girl scout non nude https://t.co/LhuMEJ6 cDp

Took 2 sec. Last updated by anonymous at January 26 2017, 7:45:11 PM.



```
def sentiment(s:String): String = {
    val positive = Array("like", "love", "good", "great", "happy", "cool", "the", "one", "that
    Sentiment(s:String): String = {
        val positive = Array("like", "love", "good", "great", "happy", "cool", "the", "one", "that
        "hate" "bad" "stupid" "is"
        Untitled Untitled
```

```
Sentiment = s.split(" ")
                                ①
                                                                              □□ 🗳 🔒
                                                                                       default ▼
          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

res 15: org. a pache. spark. sql. expressions. User Defined Function = User Defined Function (< function 1>), the property of the property o

StringType,Some(List(StringType)))

Took 1 sec. Last updated by anonymous at January 26 2017, 7:48:51 PM.

%sql select sentiment(text), count(1) from tweets where text like '%Trump% FINISHED by डेहाँ है। ଆଲ୍ଲିମ



UDF(text)	coun
neutral	46
negative	6
positivie	17

Took 2 sec. Last updated by anonymous at January 26 2017, 7:49:22 PM.

