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
```

```
// Configure Twitter credentials
val apiKey = "ku7RowAjpJg57USGtHXut7miy"
val apiSecret = "32gpUALiPIdoMIu575tUzGvSF0aqHhqgFK29vJG0LdmmU9DuMq"
val accessToken = "824757402067202048-nYZowB9PLlWlEyNtgpmL6U68ZBqR3vk"
```

```
Configuring Twitter OAuth
        Property twitter4j.oauth.consumerKey set as [ku7RowAjpJq57USGtHXut7miy]
        Property twitter4j.oauth.accessToken set as [824757402067202048-nYZowB9PLlWlEyNtgpm
L6U68ZBqR3vk7
        Property twitter4j.oauth.consumerSecret set as [32gpUALiPIdoMIu575tUzGvSF0aqHhqgFK2
9vJG0LdmmU9DuMq7
        Property twitter4j.oauth.accessTokenSecret set as [W4UsosNLQ041F9h6GKuiEDKNk6nGibc9
8P1UbPSQWtTET]
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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(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()
import org.apache.spark.streaming.twitter._
ssc: org.apache.spark.streaming.StreamingContext = org.apache.spark.streaming.StreamingCont
ext@4356f8b0
tweets: org.apache.spark.streaming.dstream.ReceiverInputDStream[twitter4j.Status] = org.apa
che.spark.streaming.twitter.TwitterInputDStream@706169a0
twt: org.apache.spark.streaming.dstream.DStream[twitter4j.Status] = org.apache.spark.stream
ing.dstream.WindowedDStream@11c29ce5
defined class Tweet
warning: there was one deprecation warning; re-run with -deprecation for details
```

%sql select * from tweets where text like '%Library%' limit 10

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val accessTokenSecret = "W4UsosNLQ04lF9h6GKuiEDKNk6nGibc98P1UbPSQWtTET"

apiSecret: String = 32gpUALiPIdoMIu575tUzGvSF0aqHhqgFK29vJG0LdmmU9DuMq
accessToken: String = 824757402067202048-nYZowB9PLlWlEyNtgpmL6U68ZBqR3vk
accessTokenSecret: String = W4UsosNL004lF9h6GKuiEDKNk6nGibc98P1UbPSQWtTET

apiKey: String = ku7RowAjpJg57USGtHXut7miy

configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)

%sql select * from tweets where text like '%girl%' limit 10

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createdAt	text
1,485,475,442	RT @GioMhirror: @xgirlnterrupted Ma l'hai visto non è un cesso
1,485,475,443	RT @girlposts: everyone needs to watch this https://t.co/R91LlWY665
1,485,475,444	RT @WindowsXPmemes: That girl is https://t.co/ACClx0VoKm
1,485,475,448	RT @GawdTrill: If my girl aint hype about curving niggas like this i dont want he
1,485,475,449	RT @NapturalHair: I feel like every black girl can relate https://t.co/TEx0yFefGo
1,485,475,450	RT @girlposts: I LOVE THIS 🍪 😭 https://t.co/yxf64F6rvi
1,485,475,451	RT @ThirtySecFights: Cash me ousside" girl gets cashed outside https://t.co/u
1,485,475,452	sexy school girls dad fuck ass pic https://t.co/WSY2xv3zFZ
1.485.475.459	RT @ThisDoneKid: when airls aet mad at vou https://t.co/0ZsYviHhaa

%sql select * from tweets where text like '%Donald Trump%' limit 20

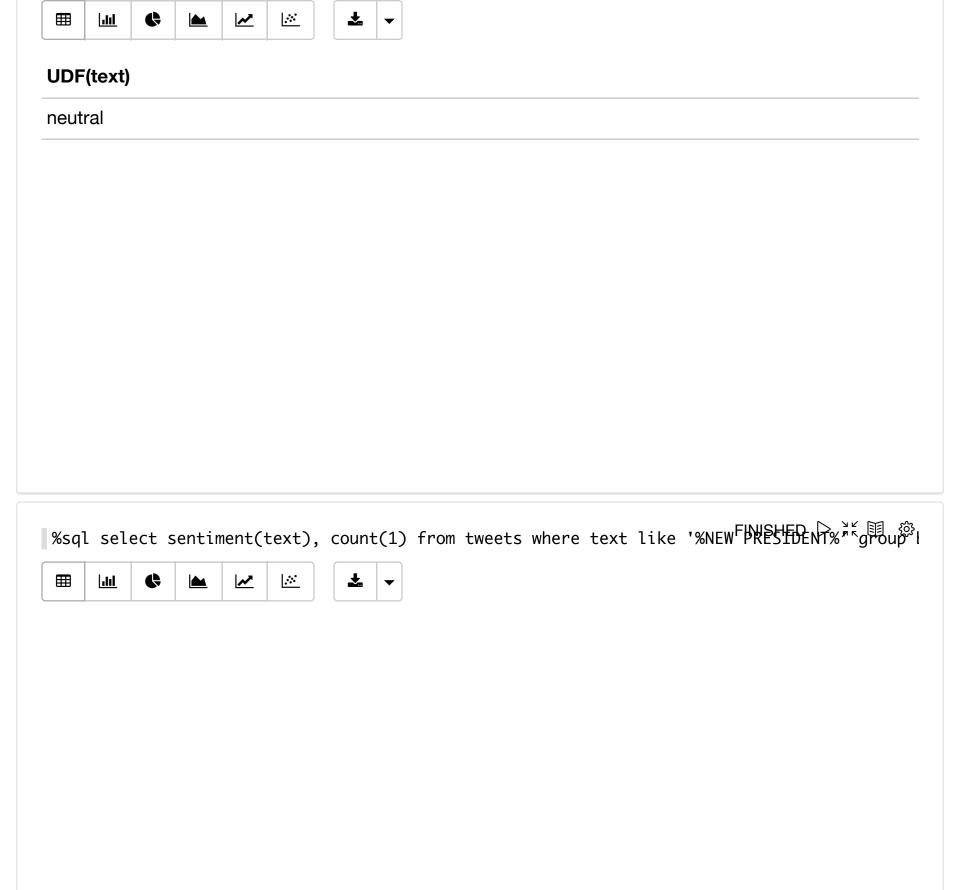


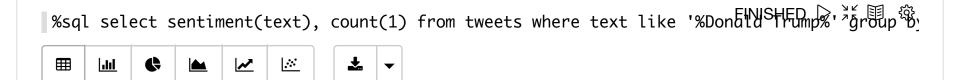
createdAt	text
1,485,475,585	RT @Salon: Demonstrators flood the streets of Philadelp
1,485,475,586	RT @Observador_CDMX: #Noticias HT Contra Donald Tr
1,485,475,587	RT @belindageoly: Donald Trump tient ses promesses de
1,485,475,592	Donald Trump, Şi Jinping ve küreselleşme
https://t.co/06WtHiMKRI	
Korkut Boratav yazdı	
https://t.co/zB1arBkGWN	

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    <u>lılıl</u>
              ✓
createdAt
1,485,475,664
1,485,475,665
1,485,475,666
1,485,475,667
1,485,475,668
1,485,475,669
1,485,475,670
1,485,475,671
1.485.475.672
```

```
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.
sentiment: (s: String)String
res15: org.apache.spark.sql.expressions.UserDefinedFunction = UserDefinedFunction(<function
1>,StringType,Some(List(StringType)))
```

| %sql select sentiment(text), count(1) from tweets where text like '%gir[%NSHEDL' by sentiment where text lik





UDF(text)	
neutral	
negative	
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