```python
[33]:  congress_sample.printSchema()
```

Error displaying widget: model not found

```
root
 |-- {"extended_tweet":{"entities":{"urls":[]: string (nullable = true)
 |-- "hashtags":[]1: string (nullable = true)
 |-- "user_mentions":[{"indices":[02: string (nullable = true)
 |-- 8]3: string (nullable = true)
 |-- "screen_name":"jillwow"4: string (nullable = true)
 |-- "id_str":"464222379"5: string (nullable = true)
 |-- "name":"jillie"6: string (nullable = true)
 |-- "id":464222379}7: string (nullable = true)
 |-- {"indices":[98: string (nullable = true)
 |-- 23]9: string (nullable = true)
 |-- "screen_name":"RepAdamSchiff"10: string (nullable = true)
 |-- "id_str":"29501253"11: string (nullable = true)
 |-- "name":"Adam Schiff"12: string (nullable = true)
 |-- "id":29501253}]13: string (nullable = true)
 |-- "symbols":[]}14: string (nullable = true)
 |-- "full_text":"@jillwow @RepAdamSchiff That is what is so disturbing &amp; ominous 🥺 Also: string
(nullable = true)
 |--  we must remember our world history – didn\u2019t Hiler only have 30% or so support from the Ger
man ppl before he began his persecution of the Jewish ppl? 🙁": string (nullable = true)
 |-- "display_text_range":[2417: string (nullable = true)
 |-- 226]}: string (nullable = true)
 |-- "in_reply_to_status_id_str":"1047522510839975936": string (nullable = true)
 |-- "in_reply_to_status_id":1047522510839975936: string (nullable = true)
 |-- "created_at":"Wed Oct 03 17:30:03 +0000 2018": string (nullable = true)
 |-- "in_reply_to_user_id_str":"464222379": string (nullable = true)
 |-- "source":"<a href=\"http://twitter.com/download/iphone\" rel=\"nofollow\">Twitter for iPhone<\/a
```

```python
[ ]:  congress_sample.rdd.map(lambda r: r.notifications).collect()
```

```python
[19]:
```

Error displaying widget: model not found

```
6
```

```python
[ ]:  # map
      rdd = congress_sample
      sorted(rdd.map(lambda x: (x, 1)).collect())
```

```python
[ ]:  #Reduce
      wordsRDD = sc.parallelize(congress_sample, 100)
      wordCountsCollected = (wordsRDD
                            .map(lambda w: (w, 1))
                            .reduceByKey(lambda x,y: x+y)
                            .collect())
```

```python
[ ]:
```

```python
[39]:  congress_sample = spark.read.text("s3://us-congress-tweets/raw/files.txt")
       congress_sample.collect()
```

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