

## CS744 BigDataSystems Assignment 2

### PART A

# SparkStructuredStreaming

SparkStructuredStreaming

Files:

Q1: PartAQuestion1.scala - Maintains state for hourly window updated every 30mins

Q2: PartAQuestion2.scala - Maintains user mentions updated every 10sec

Q3: PartAQuestion3.scala - Maintains user tweet actions updated every 5sec for users mentioned in a HDFS file

CustomConsoleSink: Implemented custom extended version of console sink to print all of the streaming state

stream-emulator.sh: Script to move a csv file from source to stream dir in HDFS every 5sec

All the jobs disable Spark Logging on console.

Steps to build code:

sbt clean package

### PART B

#### STORM APPLICATIONS TO PROCESS TWEETS

##### Question 1

Develop a simple application (Topology) to collect 200,000 tweets which are in English and match certain keywords.

Topology should be runnable in both local and cluster mode.

Prepare the storm-starter-1.0.2.jar using maven in a remote machine/cluster. Then transfer it to the cluster.

Submit topology to cluster. This can be done in either Cluster/Local mode.

#### CLUSTER TOPOLOGY

- 1) TwitterSampleSpout : Connect to Twitter API and filter tweets in English language and match certain keywords.
- 2) TweetCountBolt : Keep track of the number of tweets processed by the TwitterSampleSpout and also kill the topology after processing 200000 tweets.
- 3) HdfsBolt : Write the tuples to HDFS in cluster mode.

To submit topology in cluster mode use the following command :

```
storm jar /location/of/storm-starter-1.0.2.jar org.apache.storm.starter.CS744AssignmentQ1
<consumer_key> <consumer_secret_key> <access_token> <access_token_secret> true
/user/ubuntu/tweets
```

## LOCAL MODE TOPOLOGY

- 1) TwitterSampleSpout : Connect to Twitter API and filter tweets in English language and match certain keywords.
- 2) TweetCountBolt : Keep track of the number of tweets processed by the TwitterSampleSpout and also kill the topology after processing 200000 tweets.
- 3) FileWriterBolt : Write the tuples to local file system in local mode.

To submit topology in local mode use the following command :

```
storm jar /location/of/storm-starter-1.0.2.jar org.apache.storm.starter.CS744AssignmentQ1
<consumer_key> <consumer_secret_key> <access_token> <access_token_secret> false
/home/ubuntu/tweets.txt
```

## Question 2

Develop a simple application (Topology) to find the top 50% most common words which are not stop words in a set of filtered tweets.

Prepare the storm-starter-1.0.2.jar using maven in a remote machine/cluster. Then transfer it to the cluster.

Submit topology to cluster. This can be done in either Cluster/Local mode.

## CLUSTER TOPOLOGY

- 1) TwitterSampleSpout: Connect to Twitter API and filter tweets in English language and match certain keywords.
- 2) TwitterHashtagSpout: Randomly propagate a sample of hashtags.
- 3) FriendsCountSpout: Randomly propagate a friends count value(FC) every 30 sec.
- 4) TwitterHashtagBolt: Filter the tweets which do not have any of given hashtags.
- 5) FriendsCountFilterBolt: Filter the tweets that have friends count value less than FC.
- 6) StopWordsBolt: Remove stop words from a given tweet and then propagate it.
- 7) WordCountBolt: Count the frequency of each word and create (word, count, timestamp) tuples.
- 8) PopularWordsBolt: Sort the tuples by count and output only top 50%.
- 9) HDFS Bolt: Write the tuples to HDFS in cluster mode.

To submit topology in cluster mode use the following command :

```
storm jar /location/of/storm-starter-1.0.2.jar org.apache.storm.starter.CS744AssignmentQ2
<consumer_key> <consumer_secret_key> <access_token> <access_token_secret>
/user/ubuntu/tweets_filtered true /home/ubuntu/stopwords.txt
```

## LOCAL TOPOLOGY

- 1) TwitterSampleSpout: Connect to Twitter API and filter tweets in English language and match certain keywords.
- 2) TwitterHashtagSpout: Randomly propagate a sample of hashtags.
- 3) FriendsCountSpout: Randomly propagate a friends count value(FC) every 30 sec.
- 4) TwitterHashtagBolt: Filter the tweets which do not have any of given hashtags.
- 5) FriendsCountFilterBolt: Filter the tweets that have friends count value less than FC.
- 6) StopWordsBolt: Remove stop words from a given tweet and then propagate it.
- 7) WordCountBolt: Count the frequency of each word and create (word, count, timestamp) tuples.
- 8) PopularWordsBolt: Sort the tuples by count and output only top 50%.
- 9) PopularWordsPrinterBolt: Output popular words in local mode.
- 10) TweetPrinterBolt: Output tweets in local mode.

To submit topology in local mode use the following command :

```
storm jar /location/of/storm-starter-1.0.2.jar org.apache.storm.starter.CS744AssignmentQ2
<consumer_key> <consumer_secret_key> <access_token> <access_token_secret>
/home/ubuntu/tweets_filtered/ false /home/ubuntu/stopwords.txt
```

## PART C

The Flink Programs are written in Java:

The TimeWindow start and end times are all in terms of \*Event Time\*

Question 1:

Case A: Tumbling 1 minute windows without any overlap between windows

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Case B: Sliding 1 minute windows - window slides by 1 second

This generates many more windows - 73238 windows that satisfy the minimum count (>100) criteria.

Results are attached as a separate file rather than copy-pasting here.

Question 2:

Number of intervals that remain the same as real time, in order tweet stream

Late allowance                  common window count(out of 1224)

30s    0

60s    1

100s   9

500s   990

Actual results are attached as separate files

