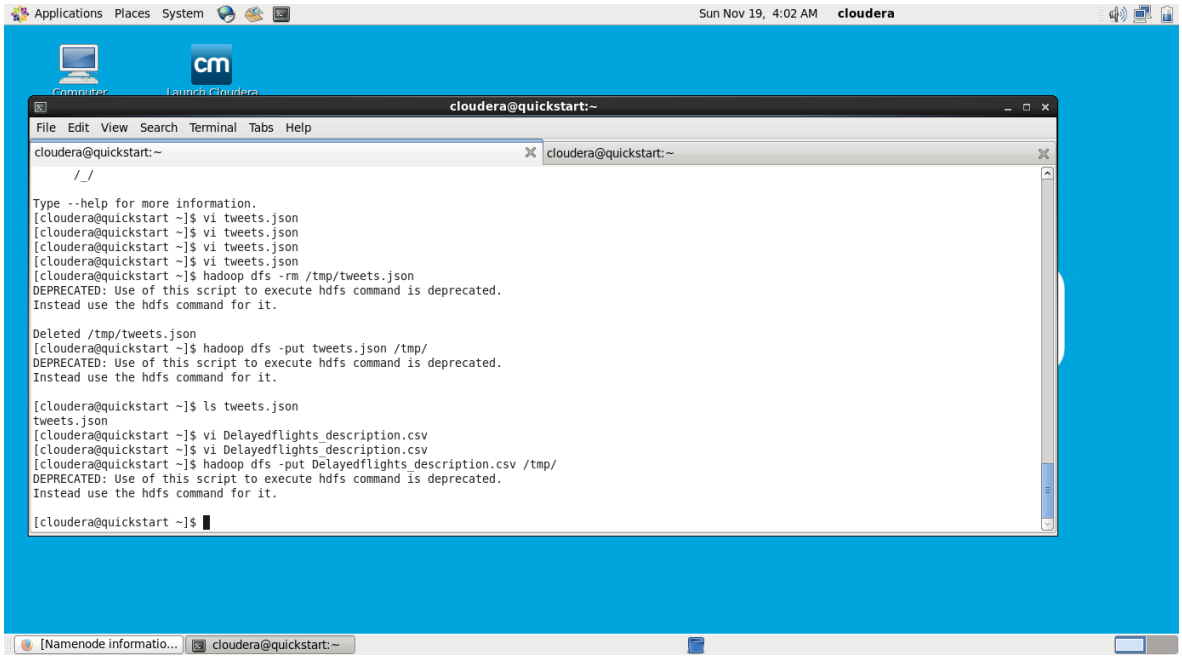
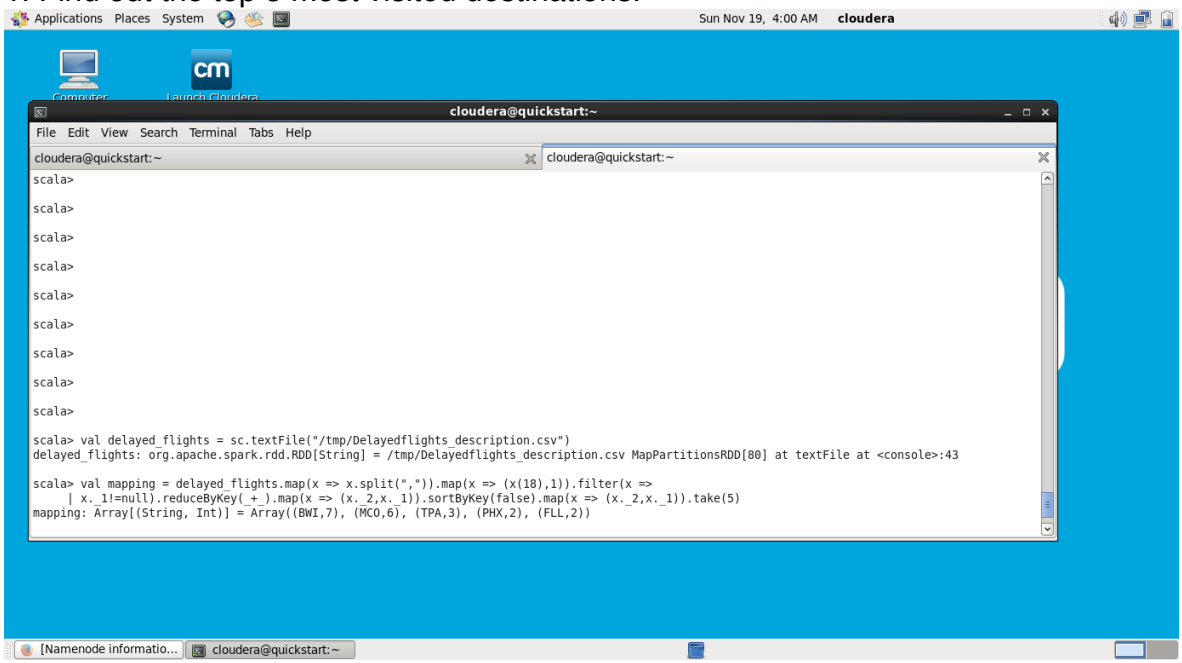
1. Copy delayed_flights.csv to HDFS using

NOTE: Copied only half the file as not able to copy full file from local system to cloudera, so some results are empty as there is no data.

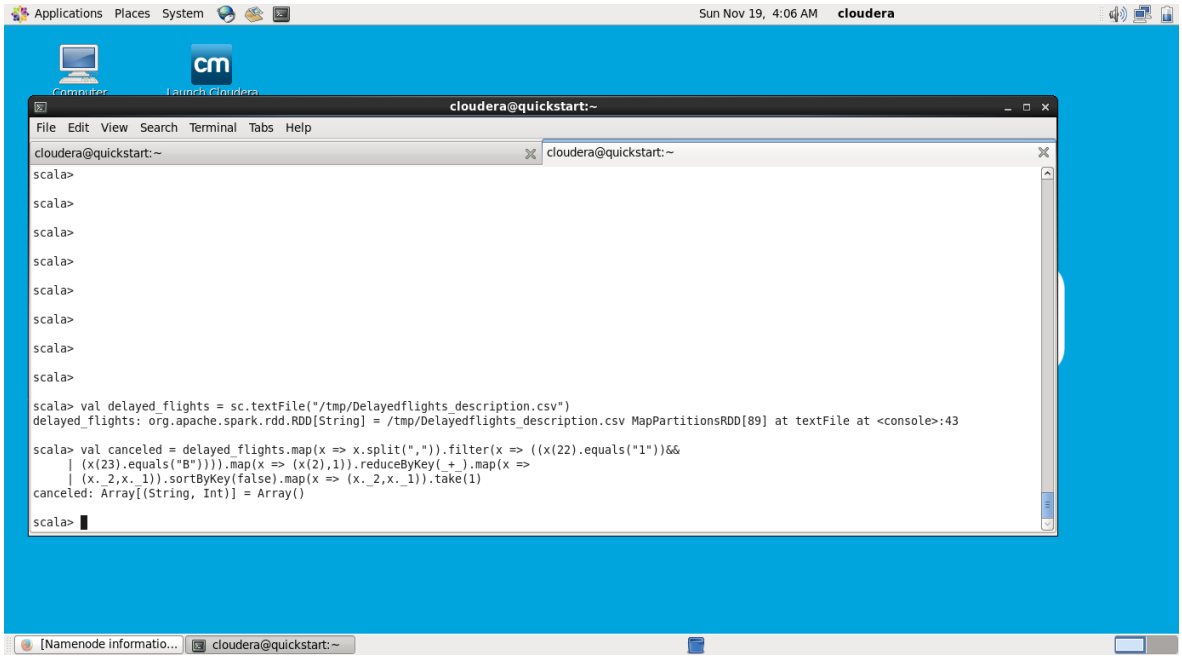


Problem statement 1:
1. Find out the top 5 most visited destinations.

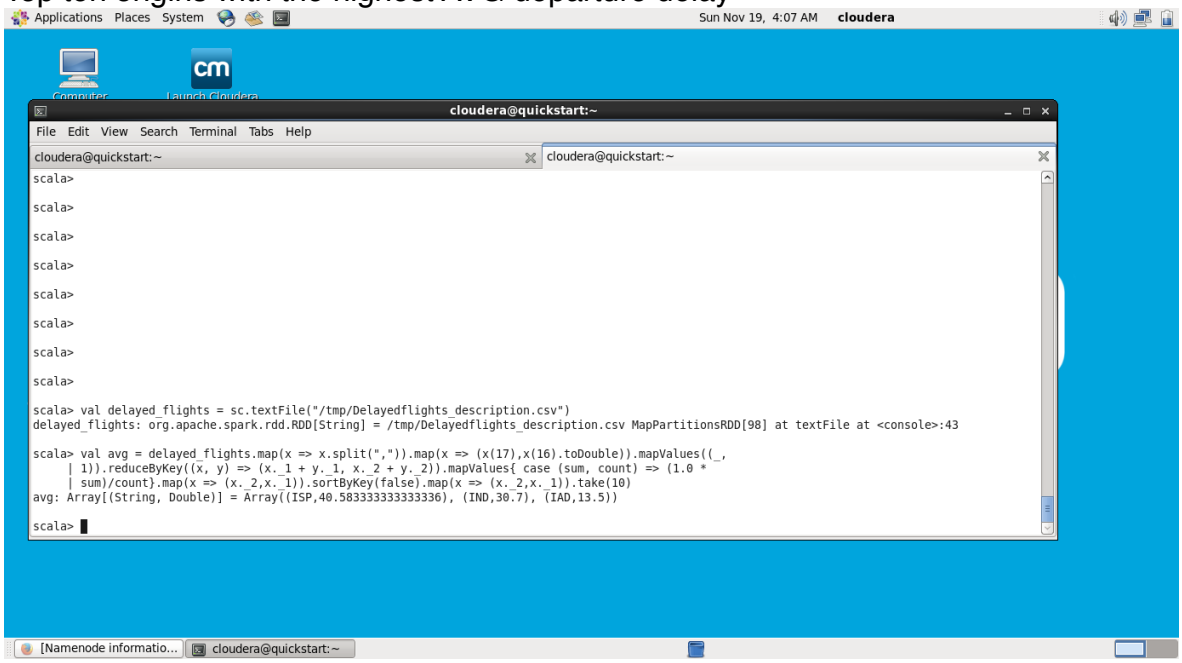


Problem statement 2

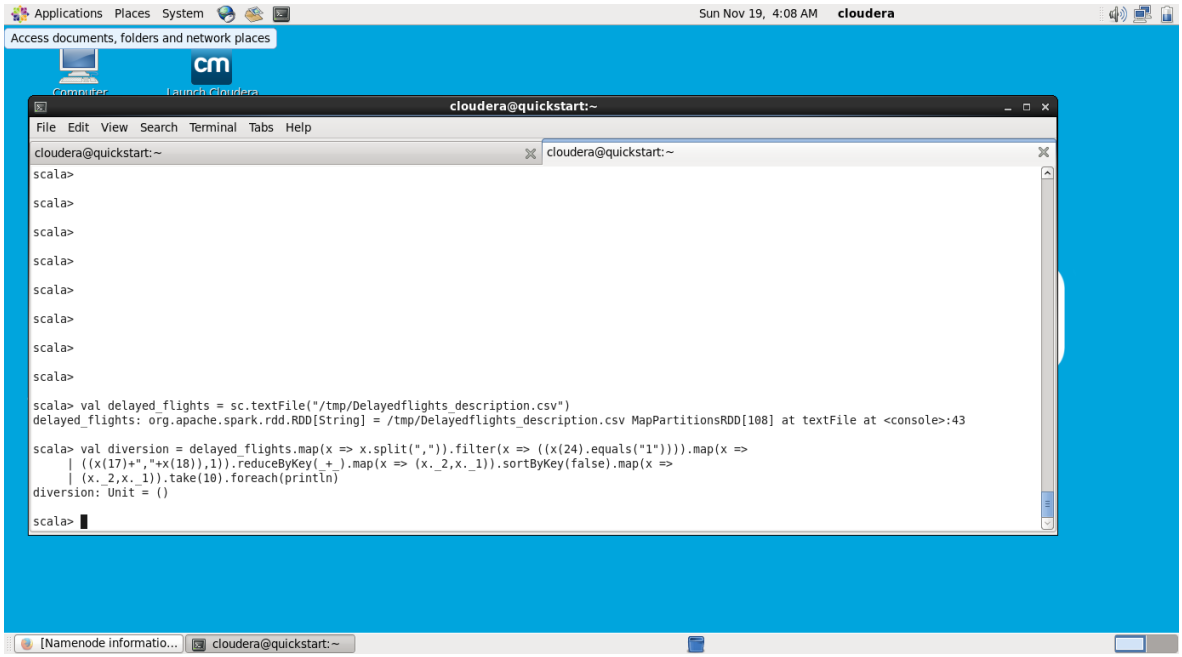
Which month has seen the most number of cancellations due to bad weather?



Problem statement 3:
Top ten origins with the highest AVG departure delay



Problem statement 4
Which route (origin & destination) has seen the maximum diversion?


Applications Places System
Sun Nov 19, 4:08 AM cloudera
Access documents, folders and network places
Computer
Launch Cloudera
cloudera@quickstart:~
File Edit View Search Terminal Tabs Help
cloudera@quickstart:~
cloudera@quickstart:~
scala>
scala>
scala>
scala>
scala>
scala>
scala>
scala>
scala> val delayed_flights = sc.textFile("/tmp/Delayedflights_description.csv")
delayed_flights: org.apache.spark.rdd.RDD[String] = /tmp/Delayedflights_description.csv MapPartitionsRDD[108] at textFile at <console>:43
scala> val diversion = delayed_flights.map(x => x.split(",")).filter(x => ((x(24).equals("1")))).map(x =>
| ((x(17)+","+x(18)),1)).reduceByKey(_+_).map(x => (x._2,x._1)).sortByKey(false).map(x =>
| (x._2,x._1)).take(10).foreach(println)
diversion: Unit = ()
scala>
[Namenode informatio...
cloudera@quickstart:~