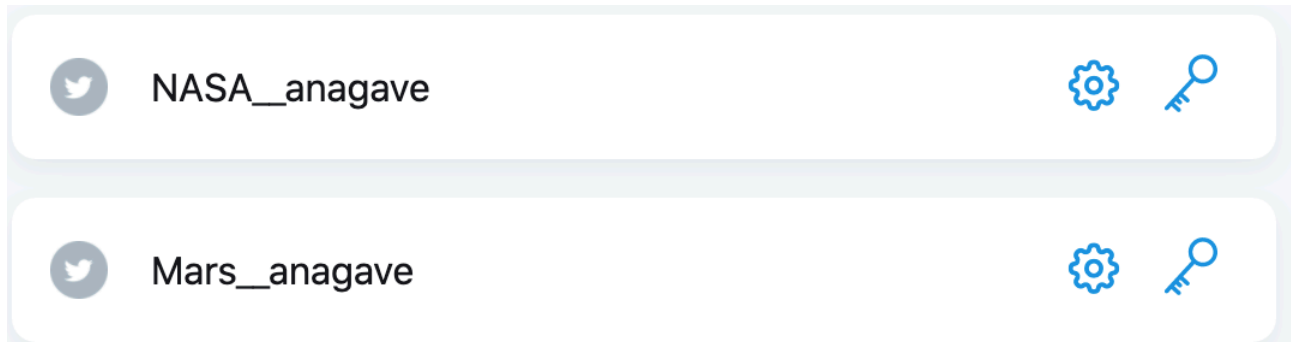

Step 1:

I have filled an application for Twitter Developer Account. Within Couple of days, I have received a confirmation mail.

Step 2:

Then I have Created an App called "NASA__anagave" and "Mars__anagave" to get my KEYS and TOKENS.



Step 3:

I have Copied API key, API secret key, Access key, Access secret key for my conf file

Step 4:

Logged into Departments Hadoop cluster, create a new file using nano for conf file, Create a new directory for NASA__data and Mars__data where the data will be downloaded

```
anagave@hadoop-nn001:~$ ls
[ JOINS_OUTPUT                      Mars__data
  'Join$CustsMapper.class'          NASA__data
  'Join$ReduceJoinReducer.class'    'ReduceJoin$CustsMapper.class'
  'Join$TxnsMapper.class'           'ReduceJoin$ReduceJoinReducer.class'
  Join.class                        'ReduceJoin$TxnsMapper.class'
  Join.java                        ReduceJoin.class
  LC.jar                           ReduceJoin.java
  Line.jar                         ReduceJoin.java.save
  'LineCount$Map.class'             lc.jar
  'LineCount$Reduce.class'          logs
  LineCount.class                  mars.conf
  LineCount.java                   nasa.conf
  LineCount_output                 nohup.out
  MapReduceJoin
```

Step 5:

To check whether data has been downloaded

```
[anagave@hadoop-nn001:~$ hdfs dfs -ls /user/anagave/NASA__data/2021/02/27/22
```

OUTPUT of above command(Which Shows the downloaded data files) :

Found 88 items

```
-rw-r--r-- 3 anagave supergrouop 266302 2021-02-27 22:00 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614484802077
-rw-r--r-- 3 anagave supergrouop 234475 2021-02-27 22:01 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614484832558
-rw-r--r-- 3 anagave supergrouop 307217 2021-02-27 22:01 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614484863067
-rw-r--r-- 3 anagave supergrouop 197125 2021-02-27 22:02 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614484894452
-rw-r--r-- 3 anagave supergrouop 276093 2021-02-27 22:02 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614484926820
-rw-r--r-- 3 anagave supergrouop 343699 2021-02-27 22:03 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614484956989
-rw-r--r-- 3 anagave supergrouop 263889 2021-02-27 22:03 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614484987836
-rw-r--r-- 3 anagave supergrouop 229134 2021-02-27 22:04 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485018191
-rw-r--r-- 3 anagave supergrouop 304647 2021-02-27 22:04 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485048603
-rw-r--r-- 3 anagave supergrouop 216758 2021-02-27 22:05 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485079574
-rw-r--r-- 3 anagave supergrouop 154916 2021-02-27 22:05 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485110304
-rw-r--r-- 3 anagave supergrouop 180558 2021-02-27 22:06 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485140937
-rw-r--r-- 3 anagave supergrouop 252010 2021-02-27 22:06 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485171047
-rw-r--r-- 3 anagave supergrouop 257841 2021-02-27 22:07 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485202748
-rw-r--r-- 3 anagave supergrouop 259243 2021-02-27 22:07 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485232827
-rw-r--r-- 3 anagave supergrouop 222329 2021-02-27 22:08 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485262987
-rw-r--r-- 3 anagave supergrouop 224083 2021-02-27 22:08 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485295133
-rw-r--r-- 3 anagave supergrouop 230241 2021-02-27 22:09 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485325974
-rw-r--r-- 3 anagave supergrouop 257883 2021-02-27 22:09 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485356222
-rw-r--r-- 3 anagave supergrouop 349759 2021-02-27 22:10 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485387492
-rw-r--r-- 3 anagave supergrouop 199097 2021-02-27 22:10 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485417773
-rw-r--r-- 3 anagave supergrouop 194133 2021-02-27 22:11 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485448326
-rw-r--r-- 3 anagave supergrouop 165517 2021-02-27 22:11 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485478416
-rw-r--r-- 3 anagave supergrouop 195086 2021-02-27 22:12 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485509722
-rw-r--r-- 3 anagave supergrouop 174201 2021-02-27 22:12 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485540197
-rw-r--r-- 3 anagave supergrouop 200511 2021-02-27 22:13 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485571078
-rw-r--r-- 3 anagave supergrouop 312950 2021-02-27 22:13 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485603456
-rw-r--r-- 3 anagave supergrouop 225882 2021-02-27 22:14 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485633601
-rw-r--r-- 3 anagave supergrouop 286052 2021-02-27 22:14 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485664049
```

-rw-r--r-- 3 anagave supergrouop 284195 2021-02-27 22:15 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485694568
-rw-r--r-- 3 anagave supergrouop 272402 2021-02-27 22:15 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485725356
-rw-r--r-- 3 anagave supergrouop 197918 2021-02-27 22:16 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485755909
-rw-r--r-- 3 anagave supergrouop 258219 2021-02-27 22:16 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485786218
-rw-r--r-- 3 anagave supergrouop 210085 2021-02-27 22:17 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485817665
-rw-r--r-- 3 anagave supergrouop 275672 2021-02-27 22:17 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485848176
-rw-r--r-- 3 anagave supergrouop 371695 2021-02-27 22:18 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485879895
-rw-r--r-- 3 anagave supergrouop 269055 2021-02-27 22:19 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485910482
-rw-r--r-- 3 anagave supergrouop 363177 2021-02-27 22:19 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485940739
-rw-r--r-- 3 anagave supergrouop 340218 2021-02-27 22:20 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614485971282
-rw-r--r-- 3 anagave supergrouop 253889 2021-02-27 22:20 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486002309
-rw-r--r-- 3 anagave supergrouop 279937 2021-02-27 22:21 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486032491
-rw-r--r-- 3 anagave supergrouop 277441 2021-02-27 22:21 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486063390
-rw-r--r-- 3 anagave supergrouop 282670 2021-02-27 22:22 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486093593
-rw-r--r-- 3 anagave supergrouop 238055 2021-02-27 22:22 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486123892
-rw-r--r-- 3 anagave supergrouop 233495 2021-02-27 22:23 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486155304
-rw-r--r-- 3 anagave supergrouop 204137 2021-02-27 22:23 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486187045
-rw-r--r-- 3 anagave supergrouop 260119 2021-02-27 22:24 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486217554
-rw-r--r-- 3 anagave supergrouop 256763 2021-02-27 22:24 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486248221
-rw-r--r-- 3 anagave supergrouop 308924 2021-02-27 22:25 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486278477
-rw-r--r-- 3 anagave supergrouop 274003 2021-02-27 22:25 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486309729
-rw-r--r-- 3 anagave supergrouop 338073 2021-02-27 22:26 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486340519
-rw-r--r-- 3 anagave supergrouop 290998 2021-02-27 22:26 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486371478
-rw-r--r-- 3 anagave supergrouop 312011 2021-02-27 22:27 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486401560
-rw-r--r-- 3 anagave supergrouop 289398 2021-02-27 22:27 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486431840
-rw-r--r-- 3 anagave supergrouop 261239 2021-02-27 22:28 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486462207
-rw-r--r-- 3 anagave supergrouop 249754 2021-02-27 22:28 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486492989
-rw-r--r-- 3 anagave supergrouop 268699 2021-02-27 22:29 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486523835
-rw-r--r-- 3 anagave supergrouop 299998 2021-02-27 22:29 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486554008
-rw-r--r-- 3 anagave supergrouop 281177 2021-02-27 22:30 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486585128

-rw-r--r-- 3 anagave supergrouop 333016 2021-02-27 22:30 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486617551
-rw-r--r-- 3 anagave supergrouop 280571 2021-02-27 22:31 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486647695
-rw-r--r-- 3 anagave supergrouop 344533 2021-02-27 22:31 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486678197
-rw-r--r-- 3 anagave supergrouop 258834 2021-02-27 22:32 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486710261
-rw-r--r-- 3 anagave supergrouop 270578 2021-02-27 22:32 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486740695
-rw-r--r-- 3 anagave supergrouop 344066 2021-02-27 22:33 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486772757
-rw-r--r-- 3 anagave supergrouop 360959 2021-02-27 22:33 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486804689
-rw-r--r-- 3 anagave supergrouop 227063 2021-02-27 22:34 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486835294
-rw-r--r-- 3 anagave supergrouop 268680 2021-02-27 22:34 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486865879
-rw-r--r-- 3 anagave supergrouop 366903 2021-02-27 22:35 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486896181
-rw-r--r-- 3 anagave supergrouop 246857 2021-02-27 22:35 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486926958
-rw-r--r-- 3 anagave supergrouop 253448 2021-02-27 22:36 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486958287
-rw-r--r-- 3 anagave supergrouop 273761 2021-02-27 22:37 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614486989989
-rw-r--r-- 3 anagave supergrouop 290290 2021-02-27 22:37 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487020158
-rw-r--r-- 3 anagave supergrouop 236500 2021-02-27 22:38 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487051070
-rw-r--r-- 3 anagave supergrouop 315811 2021-02-27 22:38 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487081224
-rw-r--r-- 3 anagave supergrouop 234781 2021-02-27 22:39 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487111868
-rw-r--r-- 3 anagave supergrouop 301541 2021-02-27 22:39 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487142079
-rw-r--r-- 3 anagave supergrouop 301296 2021-02-27 22:40 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487173161
-rw-r--r-- 3 anagave supergrouop 240204 2021-02-27 22:40 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487205338
-rw-r--r-- 3 anagave supergrouop 296064 2021-02-27 22:41 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487237396
-rw-r--r-- 3 anagave supergrouop 241049 2021-02-27 22:41 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487268303
-rw-r--r-- 3 anagave supergrouop 370939 2021-02-27 22:42 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487300200
-rw-r--r-- 3 anagave supergrouop 274984 2021-02-27 22:42 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487331007
-rw-r--r-- 3 anagave supergrouop 262855 2021-02-27 22:43 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487361657
-rw-r--r-- 3 anagave supergrouop 347836 2021-02-27 22:43 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487391919
-rw-r--r-- 3 anagave supergrouop 348170 2021-02-27 22:44 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487424090
-rw-r--r-- 3 anagave supergrouop 362612 2021-02-27 22:44 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487454796
-rw-r--r-- 3 anagave supergrouop 194388 2021-02-27 23:04 /user/anagave/NASA__data/
2021/02/27/22/FlumeData.1614487485874.tmp
anagave@hadoop-nn001:~\$

```
anagave@hadoop-nn001:~$ hdfs dfs -ls /user/anagave/Mars__data/2021/02/27/22
```

OUTPUT of above command(Which Shows the downloaded data files) :

Found 177 items

```
-rw-r--r-- 3 anagave supergrouop 284671 2021-02-27 22:00 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484805291
-rw-r--r-- 3 anagave supergrouop 284671 2021-02-27 22:00 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484805307
-rw-r--r-- 3 anagave supergrouop 153442 2021-02-27 22:01 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484835600
-rw-r--r-- 3 anagave supergrouop 153442 2021-02-27 22:01 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484835618
-rw-r--r-- 3 anagave supergrouop 166567 2021-02-27 22:01 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484865718
-rw-r--r-- 3 anagave supergrouop 166567 2021-02-27 22:01 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484865735
-rw-r--r-- 3 anagave supergrouop 191774 2021-02-27 22:02 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484896339
-rw-r--r-- 3 anagave supergrouop 191774 2021-02-27 22:02 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484896359
-rw-r--r-- 3 anagave supergrouop 183823 2021-02-27 22:02 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484926940
-rw-r--r-- 3 anagave supergrouop 183823 2021-02-27 22:02 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484926953
-rw-r--r-- 3 anagave supergrouop 225343 2021-02-27 22:03 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484957680
-rw-r--r-- 3 anagave supergrouop 225343 2021-02-27 22:03 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484957704
-rw-r--r-- 3 anagave supergrouop 266476 2021-02-27 22:03 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484988217
-rw-r--r-- 3 anagave supergrouop 266476 2021-02-27 22:03 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614484988224
-rw-r--r-- 3 anagave supergrouop 250433 2021-02-27 22:04 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485018595
-rw-r--r-- 3 anagave supergrouop 250433 2021-02-27 22:04 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485018614
-rw-r--r-- 3 anagave supergrouop 181305 2021-02-27 22:04 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485048859
-rw-r--r-- 3 anagave supergrouop 181305 2021-02-27 22:04 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485048876
-rw-r--r-- 3 anagave supergrouop 194008 2021-02-27 22:05 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485080068
-rw-r--r-- 3 anagave supergrouop 194008 2021-02-27 22:05 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485080081
-rw-r--r-- 3 anagave supergrouop 211436 2021-02-27 22:05 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485110257
-rw-r--r-- 3 anagave supergrouop 211436 2021-02-27 22:05 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485110277
-rw-r--r-- 3 anagave supergrouop 184025 2021-02-27 22:06 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485142044
-rw-r--r-- 3 anagave supergrouop 184025 2021-02-27 22:06 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485142062
-rw-r--r-- 3 anagave supergrouop 199336 2021-02-27 22:06 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485172556
-rw-r--r-- 3 anagave supergrouop 199336 2021-02-27 22:06 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485172564
```

-rw-r--r-- 3 anagave supergrouop 195316 2021-02-27 22:07 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485203851
-rw-r--r-- 3 anagave supergrouop 195316 2021-02-27 22:07 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485203867
-rw-r--r-- 3 anagave supergrouop 131584 2021-02-27 22:07 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485235030
-rw-r--r-- 3 anagave supergrouop 131584 2021-02-27 22:07 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485235052
-rw-r--r-- 3 anagave supergrouop 157974 2021-02-27 22:08 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485265758
-rw-r--r-- 3 anagave supergrouop 157974 2021-02-27 22:08 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485265772
-rw-r--r-- 3 anagave supergrouop 178433 2021-02-27 22:08 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485296531
-rw-r--r-- 3 anagave supergrouop 178433 2021-02-27 22:08 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485296543
-rw-r--r-- 3 anagave supergrouop 230575 2021-02-27 22:09 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485327628
-rw-r--r-- 3 anagave supergrouop 230575 2021-02-27 22:09 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485327642
-rw-r--r-- 3 anagave supergrouop 227287 2021-02-27 22:09 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614485360336
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-rw-r--r-- 3 anagave supergrouop 220930 2021-02-27 22:44 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614487428099
-rw-r--r-- 3 anagave supergrouop 509708 2021-02-27 22:44 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614487441022
-rw-r--r-- 3 anagave supergrouop 164974 2021-02-27 22:44 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614487458425
-rw-r--r-- 3 anagave supergrouop 81676 2021-02-27 23:04 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614487458447.tmp
-rw-r--r-- 3 anagave supergrouop 83298 2021-02-27 23:04 /user/anagave/Mars__data/
2021/02/27/22/FlumeData.1614487472705.tmp

```
-rw-r--r-- 3 anagave supergrouop 200788 2021-02-27 23:05 /user/anagave/Mars__data/  
2021/02/27/22/FlumeData.1614487488626.tmp  
anagave@hadoop-nn001:~$
```