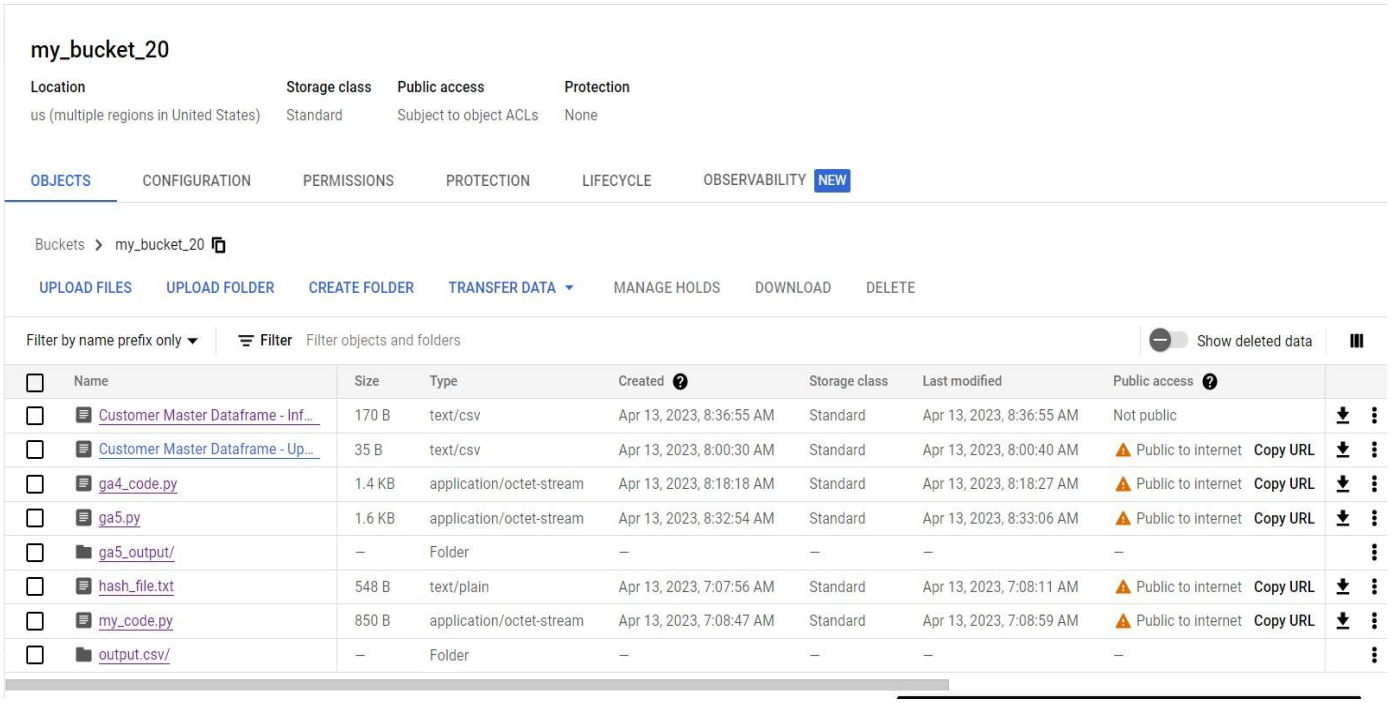
1. Moving files to bucket



my_bucket_20

Location	Storage class	Public access	Protection
us (multiple regions in United States)	Standard	Subject to object ACLs	None

OBJECTS | CONFIGURATION | PERMISSIONS | PROTECTION | LIFECYCLE | OBSERVABILITY NEW

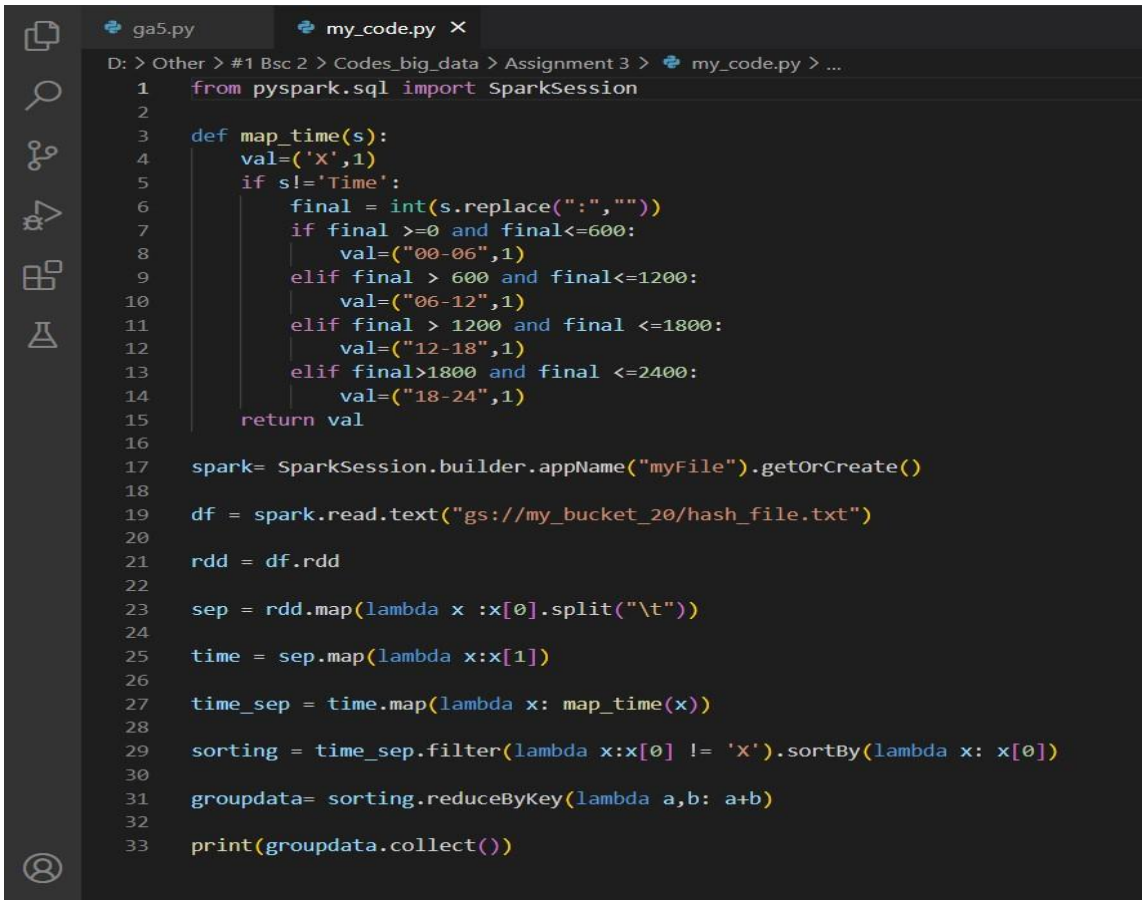
Buckets > my_bucket_20

UPLOAD FILES | UPLOAD FOLDER | CREATE FOLDER | TRANSFER DATA | MANAGE HOLDS | DOWNLOAD | DELETE

Filter by name prefix only | Filter | Filter objects and folders | Show deleted data

Name	Size	Type	Created	Storage class	Last modified	Public access
Customer Master Dataframe - Inf...	170 B	text/csv	Apr 13, 2023, 8:36:55 AM	Standard	Apr 13, 2023, 8:36:55 AM	Not public
Customer Master Dataframe - Up...	35 B	text/csv	Apr 13, 2023, 8:00:30 AM	Standard	Apr 13, 2023, 8:00:40 AM	Public to internet Copy URL
ga4_code.py	1.4 KB	application/octet-stream	Apr 13, 2023, 8:18:18 AM	Standard	Apr 13, 2023, 8:18:27 AM	Public to internet Copy URL
ga5.py	1.6 KB	application/octet-stream	Apr 13, 2023, 8:32:54 AM	Standard	Apr 13, 2023, 8:33:06 AM	Public to internet Copy URL
ga5_output/	–	Folder	–	–	–	–
hash_file.txt	548 B	text/plain	Apr 13, 2023, 7:07:56 AM	Standard	Apr 13, 2023, 7:08:11 AM	Public to internet Copy URL
my_code.py	850 B	application/octet-stream	Apr 13, 2023, 7:08:47 AM	Standard	Apr 13, 2023, 7:08:59 AM	Public to internet Copy URL
output.csv/	–	Folder	–	–	–	–

2. Creating Code

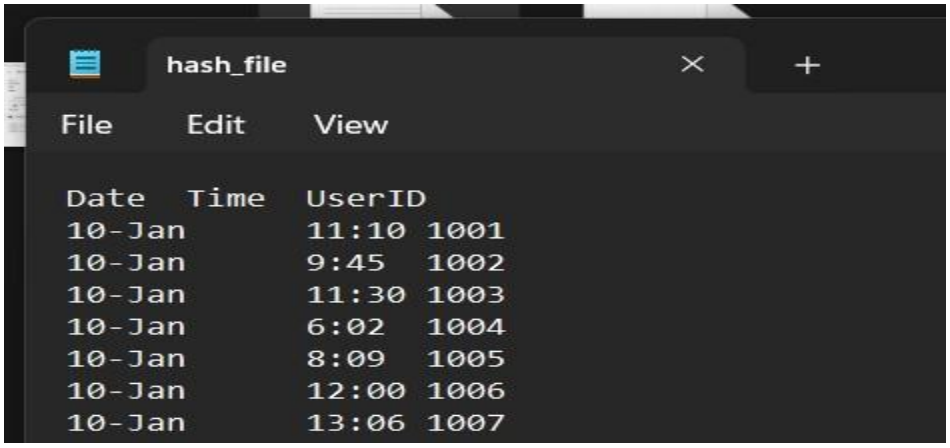


ga5.py | my_code.py

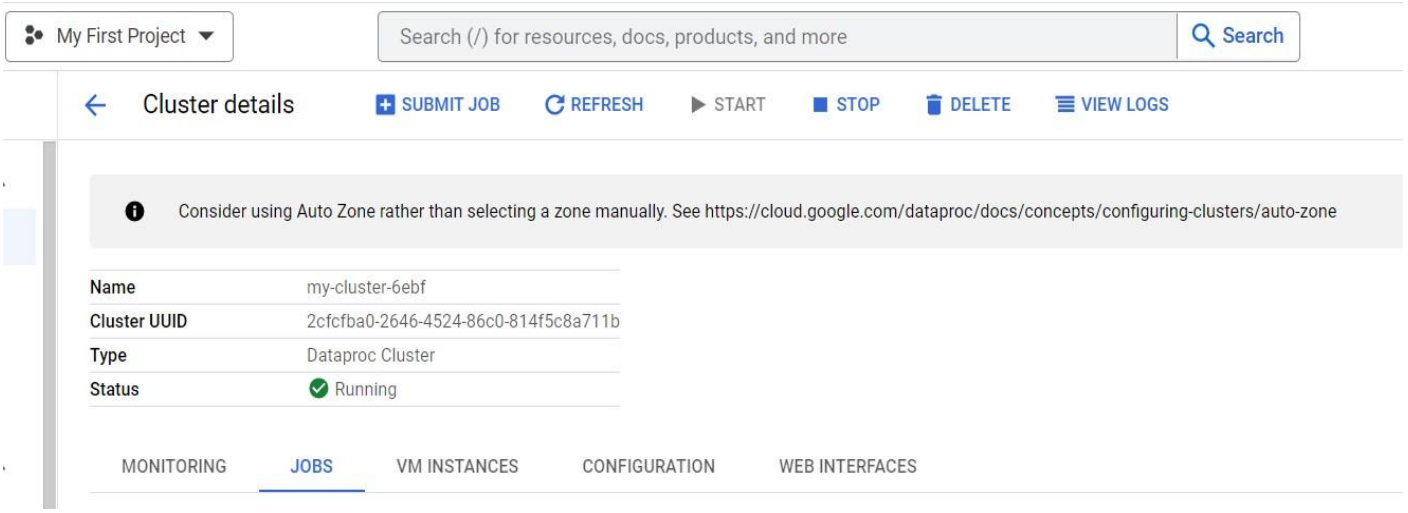
D: > Other > #1 Bsc 2 > Codes_big_data > Assignment 3 > my_code.py > ...

```
1   from pyspark.sql import SparkSession
2
3   def map_time(s):
4       val=('X',1)
5       if s!='Time':
6           final = int(s.replace(":",""))
7           if final >=0 and final<=600:
8               val=("00-06",1)
9           elif final > 600 and final<=1200:
10              val=("06-12",1)
11          elif final > 1200 and final <=1800:
12              val=("12-18",1)
13          elif final>1800 and final <=2400:
14              val=("18-24",1)
15      return val
16
17  spark= SparkSession.builder.appName("myFile").getOrCreate()
18
19  df = spark.read.text("gs://my_bucket_20/hash_file.txt")
20
21  rdd = df.rdd
22
23  sep = rdd.map(lambda x :x[0].split("\t"))
24
25  time = sep.map(lambda x:x[1])
26
27  time_sep = time.map(lambda x: map_time(x))
28
29  sorting = time_sep.filter(lambda x:x[0] != 'X').sortBy(lambda x: x[0])
30
31  groupdata= sorting.reduceByKey(lambda a,b: a+b)
32
33  print(groupdata.collect())
```

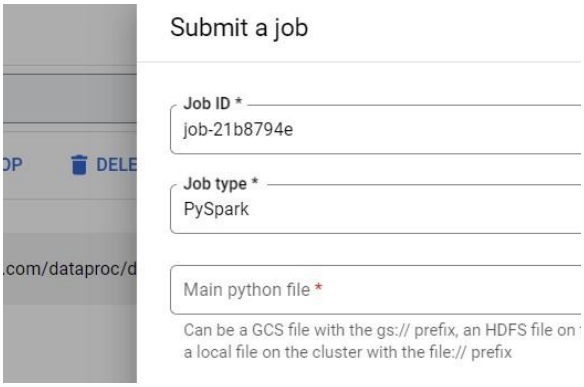
3. The TEXT File



4. Creating Clusters



5. Creating Job



6. The final Output