Mattia Danese

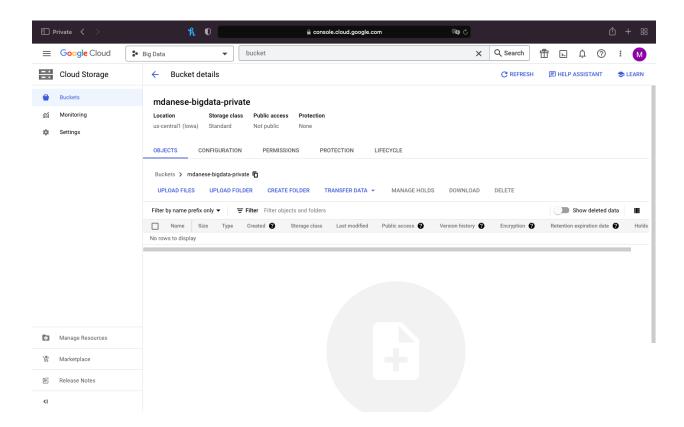
CS 119 - Big Data

Professor Singh

Quiz 2: The Opioid Files with BigQuery

## **Question 1**

I activated my Google Account, made a project called Big Data and made a storage bucket called mdanese-bigdata-private.



I populated the file arcos\_2007.tsv with 5000 random lines that all have transaction dates in 2007.

## The commands I ran:

• zcat /comp/119/arcos\_all\_washpost.tsv.gz | awk -F '\t' '(\$31 % 10000) == 2007' | shuf -n 5000 > arcos\_2007.tsv

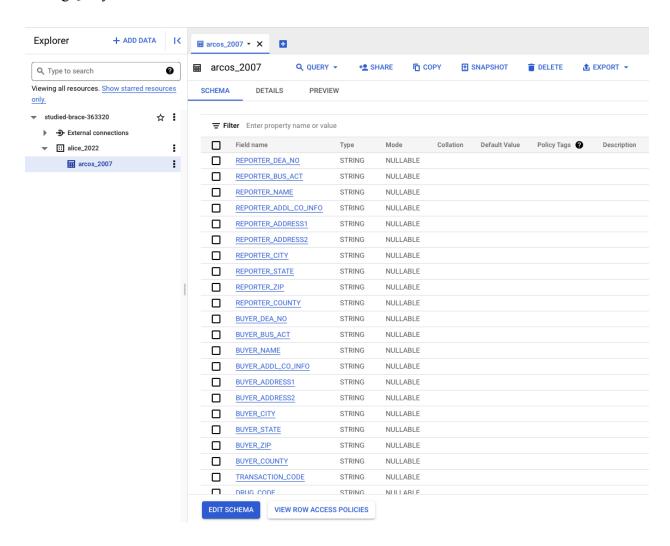
I uploaded arcos\_2007.tsv to my mdanese-bigdata-private storage bucket and checked that it was uploaded successfully.

```
lvm-hw02{mdanes01}67: ~/google-cloud-sdk/bin/gcloud storage ls gs://mdanese-bigdata-private/
gs://mdanese-bigdata-private/arcos_2007.tsv
vm-hw02{mdanes01}68:
```

#### The commands I ran:

- ~/google-cloud-sdk/bin/gcloud storage cp ./arcos\_2007.tsv gs://mdanese-bigdata-private/
- ~/google-cloud-sdk/bin/gcloud storage ls gs://mdanese-bigdata-private/

I made a dataset called alice\_2022 and table called arcos\_2007 with the correct schema on the BigQuery Console.



I uploaded the arcos\_2007.tsv file into the arcos\_2007 table using the BigQuery PowerShell

```
mattia_danese@cloudshell:~ (studied-brace-363320) $ gcloud config set project studied-brace-363320

Updated property [core/project].
mattia_danese@cloudshell:~ (studied-brace-363320) $ bq load --field_delimiter=tab --source_format=CSV studied-brace-363320:alice_2022.arcos_2007 gs://mdanese-bigdata-private/arcos_2007.tsv

Waiting on bqjob_r23Bb3e04e9872f46_000018386752b56_1 ... (1s) Current status: DONE
mattia_danese@cloudshell:~ (studied-brace-363320)$
```

#### The commands I ran:

- gcloud config set project studied-brace-363320
- bq load --field\_delimiter=tab --source\_format=CSV studied-brace-363320:alice\_2022.arcos\_2007 gs://mdanese-bigdata-private/arcos\_2007.tsv

```
The names of all the drugs that were delivered during 2007 are:
```

```
[ {
   "DRUG_NAME": "HYDROCODONE"
}, {
   "DRUG_NAME": "OXYCODONE"
} ]
```

The queries I ran on the arcos\_2007 table using BigQuery are:

• SELECT DISTINCT DRUG\_NAME FROM "alice\_2022.arcos\_2007"