> > ***PROFESSIONAL DATA ENGINEER*** *- Google Cloud Platform*

TITLE: "Introduction to Google Cloud - BigQuery - Command Line"

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Examine a table

- bq show bigquery-public-data:samples.shakespeare

Run the help command

- bq help query

Run a query

- bq query --use_legacy_sql=false
  'SELECT word, SUM(word_count) AS count FROM `bigquery-public-data`.samples.shakespeare WHERE word LIKE "%raisin%" GROUP BY word'
- In this command:
  - --use_legacy_sql=false makes standard SQL the default query syntax.
- bq query --use_legacy_sql=false
  'SELECT word, SUM(word_count) AS count FROM `bigquery-public-data.samples.shakespeare` WHERE word LIKE "%raisin%" GROUP BY word;'

Creating a dataset

- bq --location=US mk -d
  --default_table_expiration 3600
  --description "This is my dataset."
  mydataset

- bq mk babynames

Use the bq ls command to list any existing datasets in your projec

- bq ls

Run bq ls and the bigquery-public-data Project ID to list the datasets in that specific project, followed by a colon (:):

- bq ls bigquery-public-data:

Creating an empty table with a schema definition

- bq mk
  -t
  --expiration 3600
  --description "This is my table"
  --label organization:development
  mydataset.mytable
  qtr:STRING,sales:FLOAT,year:STRING

Creating a table from a query result

- bq query
  --destination_table mydataset.mytable1
  --label organization:development
  --use_legacy_sql=false
  'SELECT name, number FROM `bigquery-public-data`.usa_names.usa_1910_current WHERE gender = "M"
  ORDER BY number DESC'

Load data into a table

- bq load babynames.names2010 /home/cloudaianalytics/BigQuery/yob2010.txt
  name:string,assigned_sex_at_birth:string,count:integer

Confirm that the table schema of your new names2010 table

- bq show babynames.names2010

Run the following command to return the top 5 most popular girls names:

- bq query "SELECT name,count FROM babynames.names2010 WHERE assigned_sex_at_birth = 'F' ORDER BY count DESC LIMIT 5"

Run the following command to see the top 5 most unusual boys names:

- bq query "SELECT name,count FROM babynames.names2010 WHERE assigned_sex_at_birth = 'M' ORDER BY count ASC LIMIT 5"

Get information about tables

- bq show --format=prettyjson mydataset.mytable

```
(or)
```

- bq show --schema --format=prettyjson zinc-forge-380121:mydataset.mytable

Create a view

- bq mk
  --use_legacy_sql=false
  --expiration 3600
  --description "This is my view"
  --label organization:development
  --view
  'SELECT name, number FROM `bigquery-public-data.usa_names.usa_1910_current` WHERE gender = "M" ORDER BY number DESC'
  mydataset.myview

List jobs

- bq ls --jobs=true --all=true --max_results=10 zinc-forge-380121

drop table with bq command

- bq rm -t zinc-forge-380121:mydataset.mytable

drop table with bq command to avoid confirmation

- bq rm -f -t zinc-forge-380121:mydataset.mytable1

Delete the babynames dataset:

- bq rm --recursive=true babynames
