1/1 point





Activity overview

exploring a public dataset in BigQuery and writing some basic SQL queries. In addition to using public data on BigQuery, you will need to be able to import data from other sources. In this activity, you will create a custom table and dataset, which you'll load into a new table and query. By the time you complete this activity, you will be able to load your own data into BigQuery for analysis. This will enable you to import your own data sources

Recently, you've been thinking about identifying good data sources that would be useful for analysis. You also spent some time in a previous activity

into BigQuery, which is a skill you will need in order to analyze data from different sources.

What you will need To get started, download the baby names data zip file. This file contains about 7 MB of data about popular baby names from the US Social Security

Administration website.

Click the link to the baby names data zip file to download it.

Link to baby names data: names.zip

Create a custom table

custom table. Step 1: Unzip the file

Once you have the zip file downloaded, you can import it into BigQuery to query and analyze. In order to do that, you will need to create a new dataset and a

You will need to unzip the file you downloaded onto your computer in order to access it on BigQuery. Once you have unzipped the file, you will find a .pdf file

titled NationalReadMe that contains more information about the dataset. This dataset tracks the popularity of baby names for each year; you can find text files labelled by the year they contain. Open yob2014.txt to preview the data. You will notice that it's a .csv file with three columns. Remember where you saved this folder so you can reference it later.

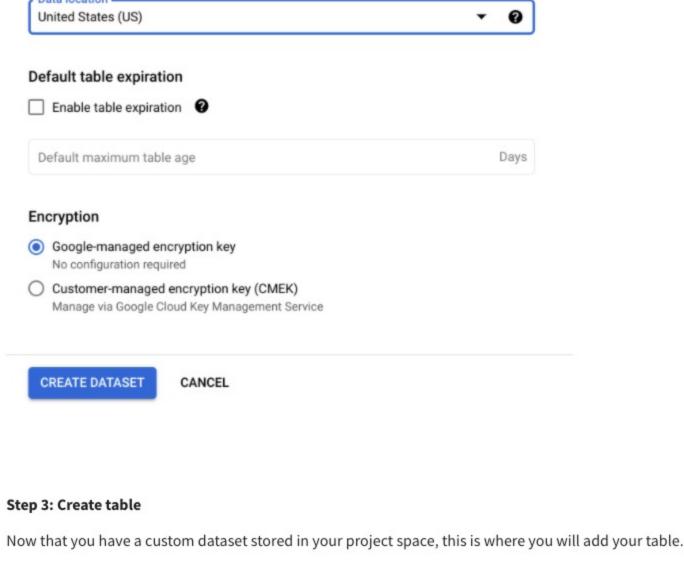
Step 2: Create a dataset Before you can upload your txt file and create a table to query, you will need to create a dataset to upload your data into and store your tables.

EDITOR Explorer ADD DATA

1. Go to the Explorer pane in your workspace and click the three dots next to your pinned project to open a menu. From here, select Create dataset.

RUN Q Type to search Viewing pinned projects. airy-shuttle-315515 bigquery-public-data Open Create dataset 2. This will open the Create dataset menu on the right side of your console. This is where you will fill out some information about the dataset. You will input the Dataset ID as babynames and set the Data location to United States (US). Once you have finished filling out this information, you can click the blue

Letters, numbers, and underscores allowed Data location -United States (US)



⊞BABYNA... ▼ X

CREATE DATASET button at the bottom of the menu.

Create dataset

Dataset ID * babynames

Description /

Create table from: Upload

Destination

Search for a project

yob2014.txt

Enter a project name

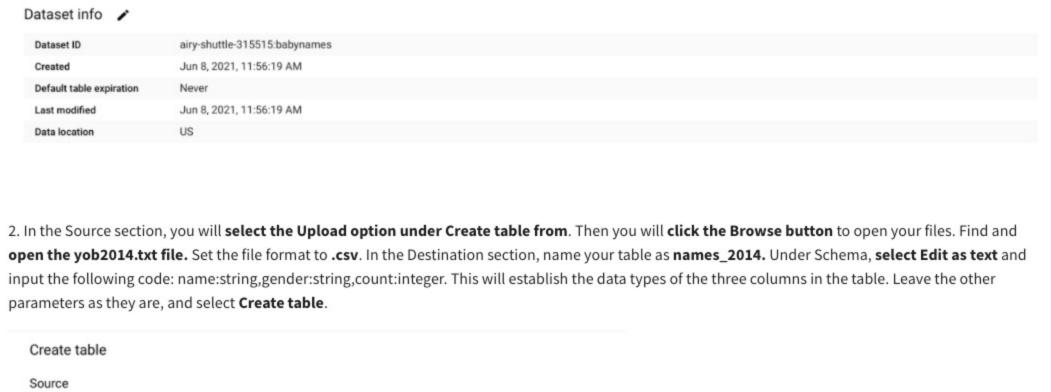
⊕ EDITOR ▼ X

airy-shuttle-315515:babynames

None None

CREATE TABLE

1. From the babynames dataset, click the CREATE TABLE button. This will open another menu on the right side of your console.



SHARE DATASET

Labels /

AUTHORIZE ROUTINES

COMPOSE NEW QUERY

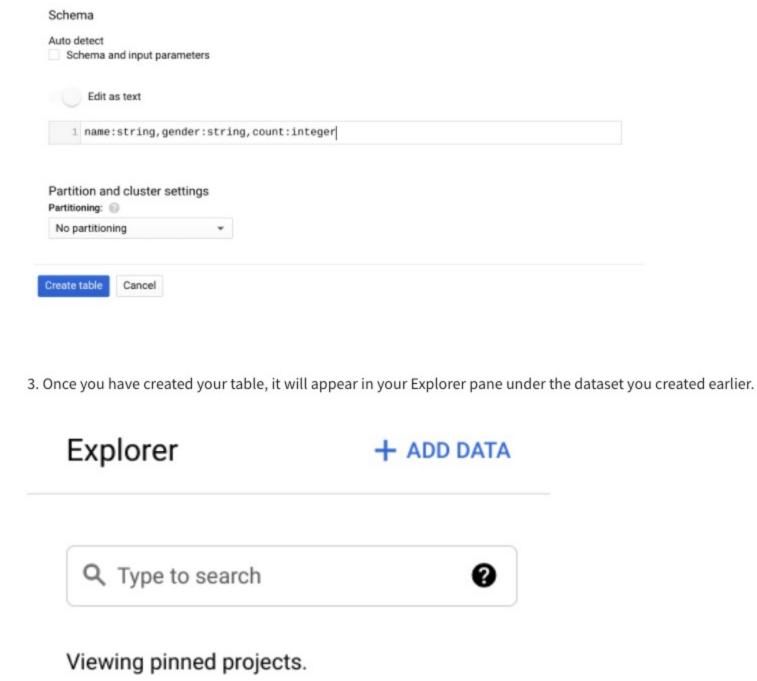
DELETE DATASET

COPY DATASET

Table type Project name Dataset name Native table babynames test Table name

CSV

Browse



airy-shuttle-315515

babynames

have three columns: name, gender, and count.

names_2014

mames_2014

bigquery-public names_2014

Click on the table to open it in your workspace. Here, you can check the table schema. Then, go to the Preview tab to explore your data. The table should

Now that your table is set up, you're ready to start writing queries and answering questions about this data. For example, let's say you were interested in the

This query SELECTs the name and count columns from the names_2014 table. Using the WHERE clause, you are filtering for a specific gender for your results. Then, you're sorting how you want your results to appear with ORDER BY. Because you are ordering by the count in descending order, you will get names and

the corresponding count from largest to smallest. And finally, LIMIT tells SQL to only return the top five most popular names and their counts.



Click COMPOSE NEW QUERY to start a new query for this table. Then copy and paste this code: SELECT name, count FROM `babynames.names_2014`

top five baby names for boys in the United States in 2014.

Once you have input this in your console, select **RUN** to get your query results. Up for a challenge?

WHERE

LIMIT 5

ORDER BY

gender = 'M'

count DESC

If you are comfortable creating your own custom tables, try uploading more files from the baby names dataset into tables you can query. For example, you could upload each of the files from 2015 to 2019 to find the top baby names for those years.

Confirmation and reflection

After running the query on your new table, what was the third most popular baby name for boys in 2014? William

Mason Jacob Noah

To find that Mason was the third most popular baby name for boys in 2014, you queried your custom table and checked the results. Going forward, you'll be able to upload your own data sources into BigQuery for future analysis projects. This will allow you to practice writing SQL queries for more data sources, which will be a key skill as a data analyst.

✓ Correct

- 2. In this activity, you explored public data in BigQuery and used it to create a custom table. In the text box below, write 2-3 sentences (40-60 words) in response

to each of the following questions:

Why is being able to use data from different sources useful as a data analyst? How can you use BigQuery custom tables and datasets in your future analysis projects?

How can you use BigQuery custom tables and datasets in your future analysis projects? I can use BigQuery custom tables and datasets in my future analysis projects by creating tables that contain data that is specific to the project. I can also use datasets to organize data from different sources into a single, manageable format. This will allow me to perform more complex analysis and get more insights from the data.

✓ Correct Congratulations! In this activity, you created a new dataset within your project, uploaded a .csv file to create a new table, and ran a SQL query. A good response would include that being able to evaluate and use different data sources allows you access more data.

Why is being able to use data from different sources useful as a data analyst? Being able to use data from different sources is useful as a data analyst because it allows you to get a more complete picture of the data. By combining

data from different sources, you can identify trends and patterns that would be difficult to see if you only looked at data from one source.

- As a data analyst, being able to evaluate data sources and use the appropriate tool to analyze them is important. For instance, you were able to use SQL to analyze a dataset that was previously stored on your computer as a .csv file.

1/1 point