Activity Overview

As you have learned, BigQuery is a data warehouse on the Google Cloud Platform (GCP) used to query, filter large datasets, aggregate results, and perform complex operations. If you previously completed the optional activity to Create a Google Cloud account, you can access a standard BigQuery account through a free trial. If you chose not to create a billing account with GCP, you can still complete the activities in this program using another free option: the BigQuery sandbox.

In this activity, you will set up a BigQuery sandbox account. After you set up your sandbox, you will explore the BigQuery console and complete a tutorial about how to locate and query public datasets. As a BI professional, you will be responsible for gathering, compiling, and analyzing relevant data to identify trends and patterns, then making recommendations for business actions.

Step-By-Step Instructions

Follow the instructions to complete each step of the activity. Then, answer the questions at the end of the activity before going to the next course item.

Step 1: Log into the BigQuery sandbox with your Google account

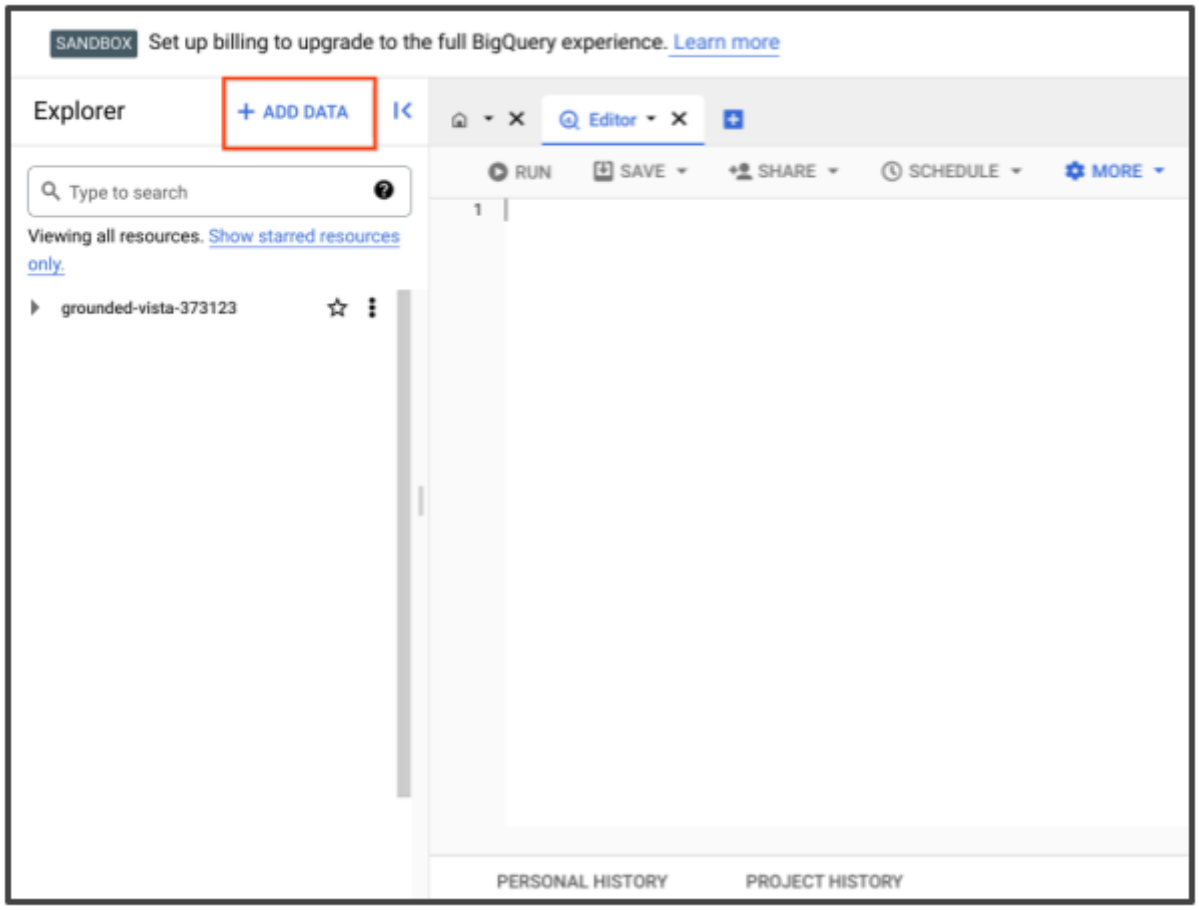
Go to the BigQuery sandbox documentation page. Log into your existing Google account or create a new account to use with the sandbox. Then select your country from the dropdown menu, check the box to agree to the Terms of Service, and click the AGREE AND CONTINUE button.

NOTE: If you have already set up a Google Cloud free trial account, go to the BigQuery console and log in. Then skip to Step 2.

Step 2: Explore the SQL Workspace

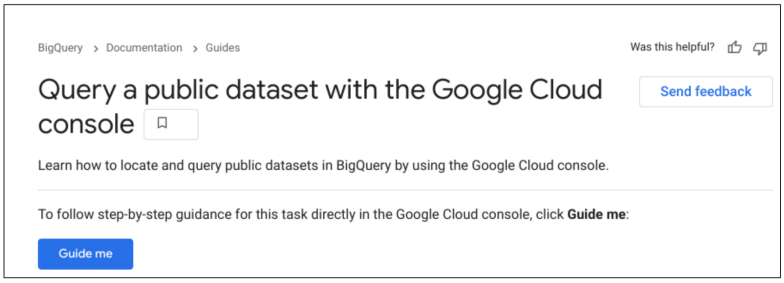
Take a moment to explore the SQL Workspace. The Explorer section contains a search bar to find resources, your pinned projects, and the ADD DATA button.

Click Editor. This space enables you to run, save, share, and schedule queries. You can also find your personal and project history here.



Step 3: Begin the tutorial

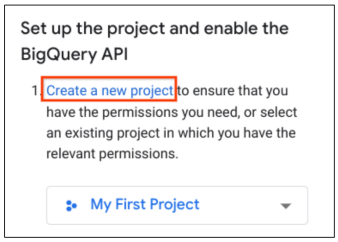
Next, you will take a tutorial about how to locate and query public datasets in BigQuery. Start by opening the guide to querying a public dataset with the Google Cloud console. Then click Guide me.



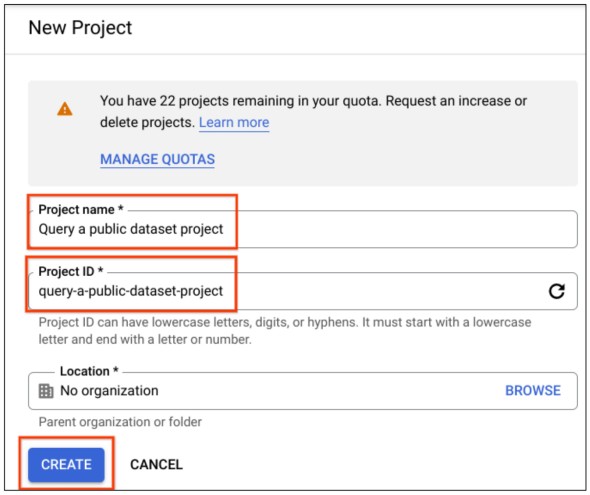
To begin the tutorial, click START.

Step 4: Create a new project

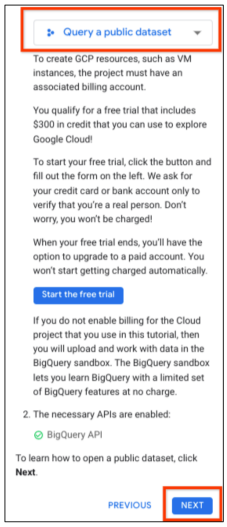
For Step 1 of the tutorial, click create a new project.



Give your project a name like “Query a public dataset project” and a project ID like “query-a-public-dataset-project.” Then click CREATE.



Select your project from the dropdown menu in the tutorial pane and click NEXT.



Step 5: Complete the tutorial

Proceed with the remaining steps of the tutorial, which is estimated to take about five minutes. The remaining steps are as follows:

In Step 2, you will open a public dataset.

In Step 3, you will learn how to use SQL to query a public dataset.

In Step 4, you will delete your project. If you have signed up for the free trial, make sure to complete this step in order to avoid incurring charges on your Google Cloud account.

1. Did you complete this activity? 1 / 1 point

- (●) Yes
- ( ) No

Correct
Thank you for completing this activity! Being able to construct queries in tools such as BigQuery is an important skill to have as a BI professional, as you will be responsible for gathering, compiling, and analyzing relevant data to identify trends and patterns. Please complete the following quiz questions and review the feedback.

2. Which of the following best describes BigQuery? 1 / 1 point

- ( ) A career marketplace specifically focused on tech professionals in the United States
- ( ) A visual analytics platform used to connect and visualize data quickly and create intuitive dashboards
- ( ) A tool that reads data from the source, transforms it, and writes it in the destination location
- (●) A data warehouse used to query, filter large datasets, aggregate results, and perform complex operations

Correct
BigQuery is a data warehouse on the Google Cloud Platform (GCP) used to query, filter large datasets, aggregate results, and perform complex operations.

3. Which section of the BigQuery console is used to run, save, share, and schedule queries and find resources? 1 / 1 point

- Data transfers
- SQL translation
- SQL workspace
- Analytics Hub

Correct
The SQL workspace is used to run, save, share, and schedule queries and find resources.

4. Fill in the blank: After entering a query into the SQL workspace, a check mark along with the amount of data that the query processes appears. This indicates that the query is _____. 1 / 1 point

- valid
- invalid
- public
- private

Correct
If a query entered into the SQL workspace is valid, then a check mark appears along with the amount of data that the query processes.