Get started with data calculations

Pivot...pivot...pivot...

Learn more SQL calculations

Video: Queries and calculations
4 min

Reading: Optional: Upload the avocado dataset to BigQuery
10 min

Video: Embedding simple calculations in SQL
7 min

Video: Calculations with other statements
4 min

Practice Quiz: Hands-On Activity: Calculations in SQL
7 questions

Optional: Upload the avocado dataset to BigQuery

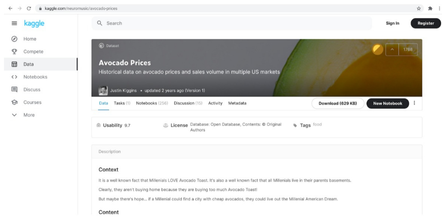
Using public datasets is a great way to practice working with SQL. Later in the course, you are going to use historical data on avocado prices to perform calculations in BigQuery. This is a step-by-step guide to help you load this data into your own BigQuery console so that you can follow along with the upcoming video.

If you have hopped around courses, Using BigQuery in the **Prepare Data for Exploration** course covers how to set up a BigQuery account.

Step 1: Download the CSV file from Kaggle

Avocado prices: The publicly available avocado dataset from Kaggle you are going to use (made available by Justin Kiggins under an Open Data Commons license).

You can download this data onto your own device and then upload it to BigQuery. There are also other public datasets on Kaggle that you can download and use. You can follow these steps to load them into your console and practice on your own!

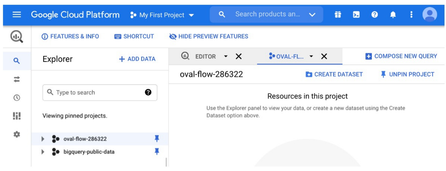


You will find some more information about the avocado dataset, including the context, content, and original source on this page. For now, you can simply download the file.

Step 2: Open your BigQuery console and create a new dataset

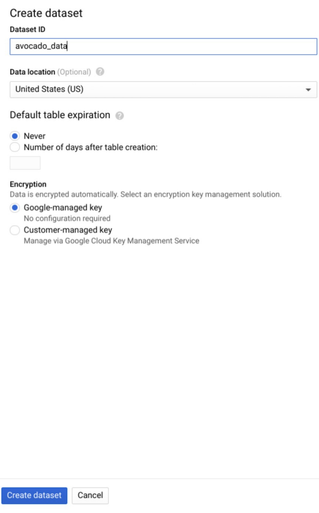
Open BigQuery. After you have downloaded the dataset from Kaggle, you can upload it to your BigQuery console.

In the Explorer on the left side of your console, click the project where you want to add a dataset - note that your project will not be named the same as the one in the example ("oval-flow-286322"). Don't choose "bigquery-public-data" as your project because that's a public project that you can't change.



Click the Actions icon (three vertical dots) next to your project and select **Create dataset**.

Here, you will name the dataset; in this case, enter **avocado_data**. Then, click **Create dataset** (blue button) at the bottom to create your new dataset. This will add data in the Explorer on the left of your console.



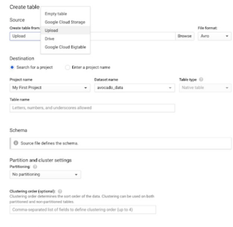
Step 3: Open the new dataset and create a new table

Navigate to the dataset in your console by clicking to expand your project and selecting the correct dataset listed. In this case, it will be **avocado_data**.

Click the Actions icon (three vertical dots) next to your dataset and select **Open**. Then click the + icon to create a table.

Next, do the following:

- Under Source, for the Create table from selection, select **Upload**.
- Click Browse to select the CSV file you just downloaded to your computer from Kaggle. The file format should automatically change from Avro to CSV when you select the file.
- For Table Name, enter **avocado_prices** for the table.
- For Schema, click the Auto detect check box. Then, click **Create table** (blue button).



In the Explorer, the avocado data will appear in the table under the dataset you created. Now you are ready to follow along with the video and learn more about performing calculations with queries!

Further reading

Introduction to loading data: This step-by-step guide is a useful resource that you can bookmark and save for later. You can refer to it the next time you need to load data into BigQuery.

Mark as completed