### Contents

Introduction	2
Go to Google Cloud Console	
Create the Dataset	
Create the Table	
Query the Table	

### Introduction

In this document I will explain how to create a Table in a Dataset in Google BigQuery, using a CSV File.

This document accompanies the text "Kaye is Learning SQL".

In the scripts that create the Training Database of the text "Kaye is Learning SQL", the dataset is named "kayeilsql". Although we will use the CSV files in this document, it is best to use the name "kayeilsql" for the dataset which will hold the training database tables, for consistency.

It is assumed that, you already have a free GCP (Google Cloud Platform) account. Of course, you might already have access to GCP through your work, through your company. If you don't please open an account before you start working on this document. If you accessed this document from GitHub, you will also find a document on how to open a free GCP account.





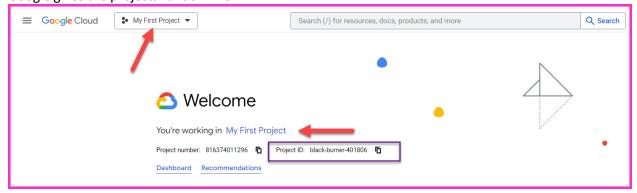
### Go to Google Cloud Console

https://console.cloud.google.com/

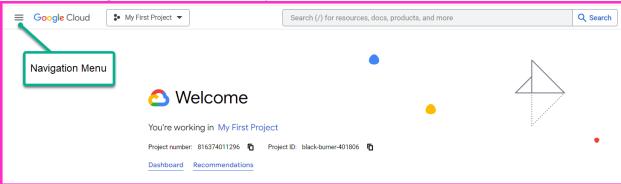
Here I am in the console, in the project named "My First Project".

The ID of this project is displayed also.

Google gives the projects random IDs.

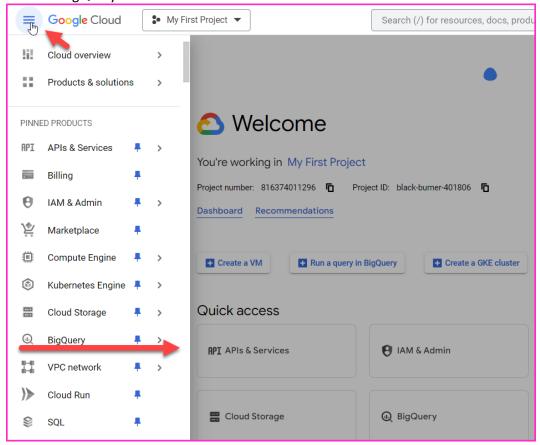


### I click on the Navigation Menu on the left top.



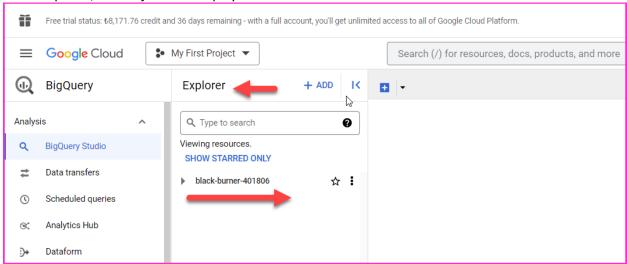


I can see BigQuery down below in the Menu Items. I click on BigQuery.

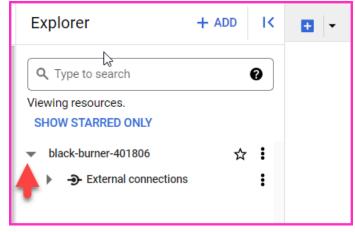


Here I am in BigQuery.

In the Explorer, the Project ID is displayed.



If we click on the small arrow on the left of the Project ID, **External connections** are displayed. We are not interested in External connections at this moment in time.

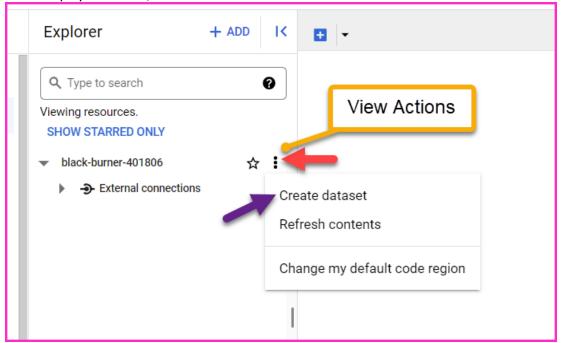


### Create the Dataset

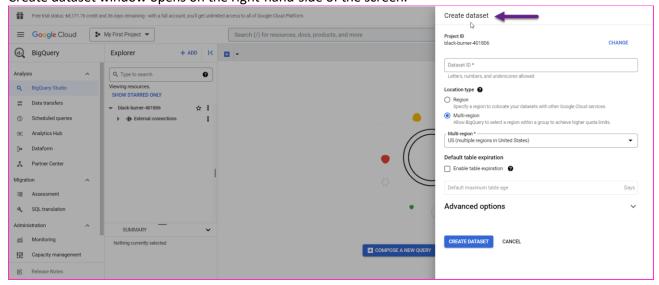
We click on the **three dots** at the right-hand-side of the Project ID.

This is the View Actions icon.

In the displayed Actions, we click on **Create dataset**.



Create dataset window opens on the right-hand-side of the screen.

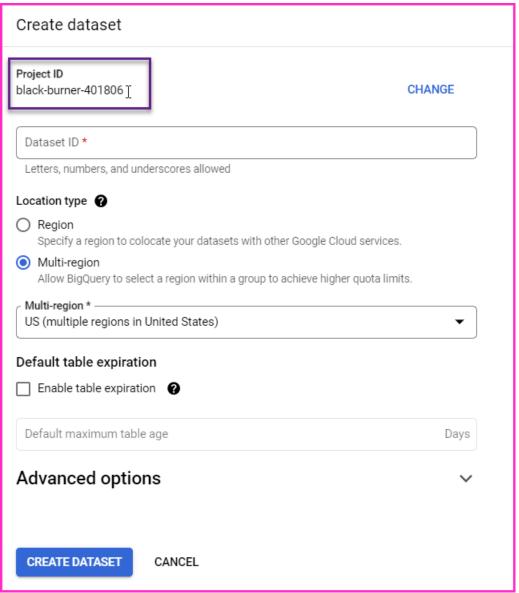


We can see our Project ID.

The Project Name and Project ID, does not matter for us.

They can have any name.

What we see in the Create dataset window are the Default Values.



#### **Dataset ID** is what is important for us.

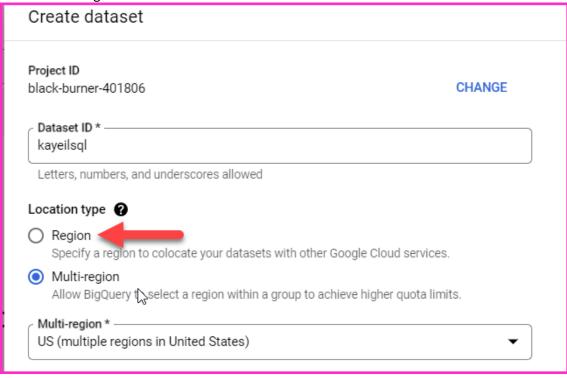
If we are creating the Training Tables for "Kaye is Learning SQL", then, the Dataset ID will be "kayeilsql". It is in all lower case.



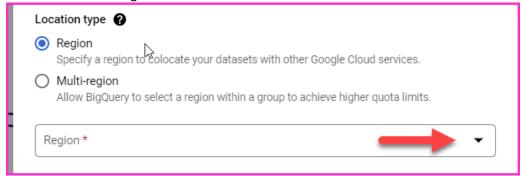
Next, I enter the Region.

I want a single region.

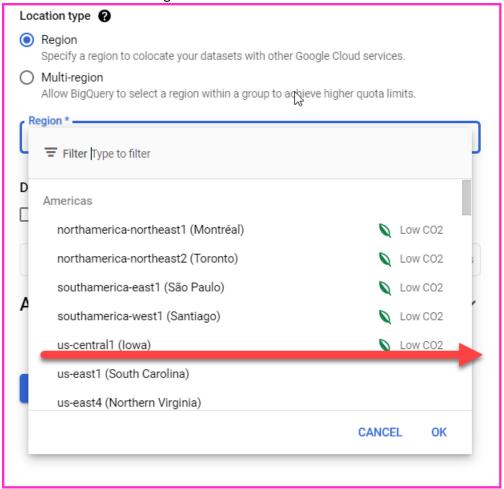
I click on the Region.



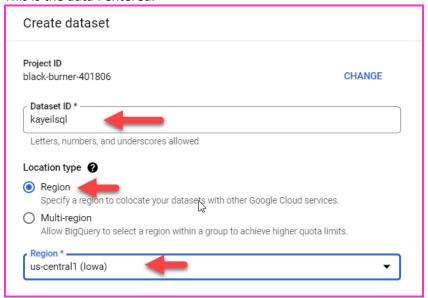
I can now select a Region.



I will select a low carbon region.

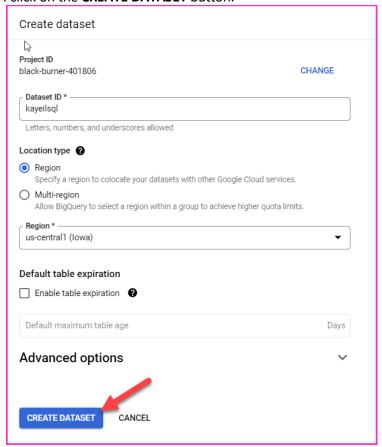


This is the data I entered.

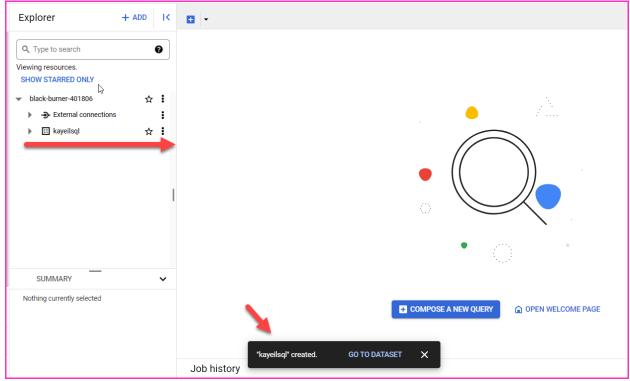


### I leave everything else as is.

I click on the CREATE DATASET button.

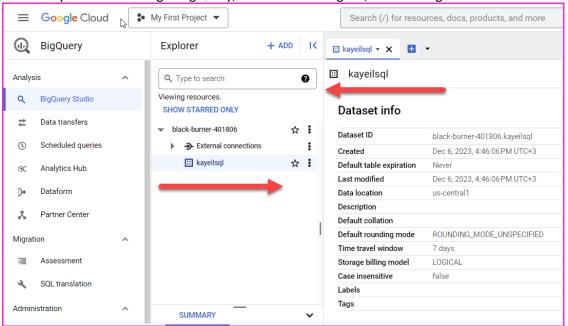


I get a message, and I see that my Dataset is created.



I dismiss / close the message, and click directly on my Dataset.

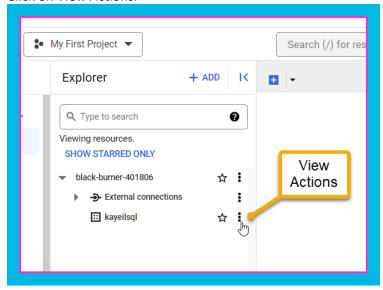
Here is my Dataset in Google BigQuery, with the name I gave, and the Region I chose



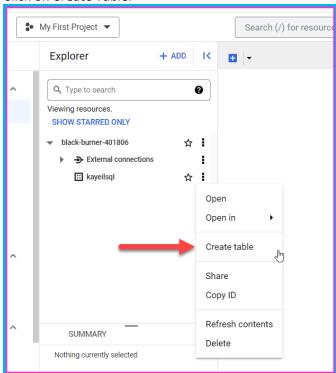
### Create the Table

I will now create a table in this dataset in Google Cloud BigQuery, by using a .csv file in my local file.

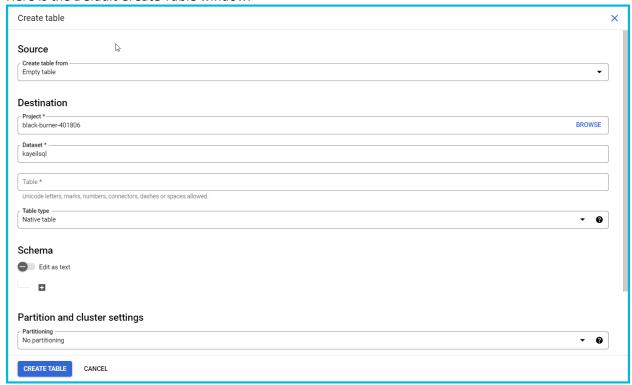
#### Click on View Actions.



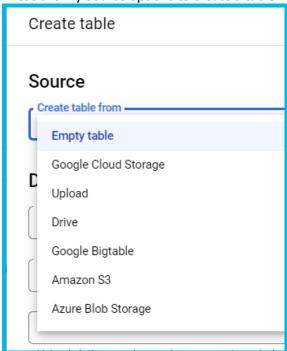
### Click on Create Table.



Here is the Default Create Table window.



These are my Source options to create a table from:

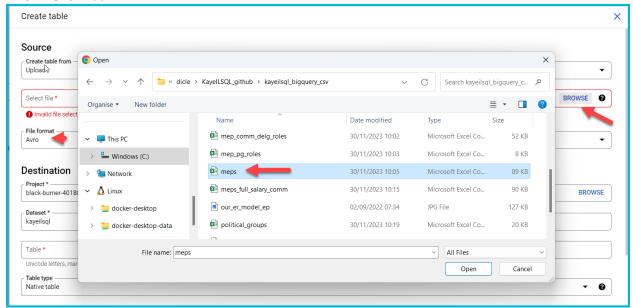


I select **Upload** as the Source of the table.

It gives me two new fields to fill in:

One. Browse to Select the file to be Uploaded.

Two. File format.



I upload the .csv file from my local. File format is automatically filled in as CSV.



I name my table "meps".

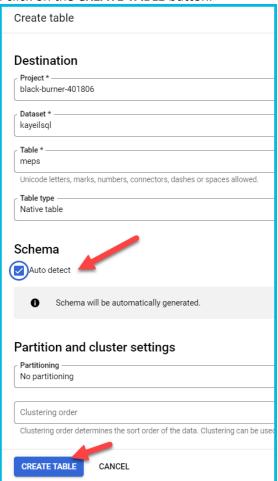
Please note that, table names are case sensitive in Google SQL.

Because I used a lower case name, I will always have to use it as is in my SQL queries in BigQuery.

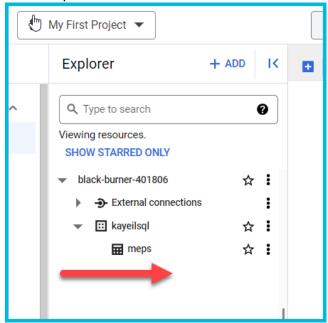


I choose "Auto detect" for Schema, so that the table will be created in the same structure as the .csv file.

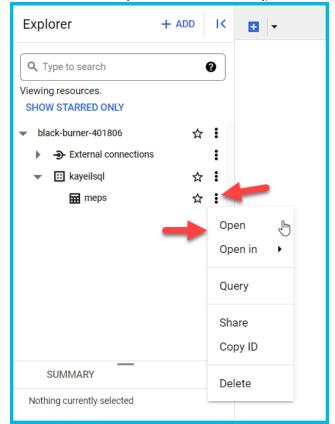
I click on the CREATE TABLE button.



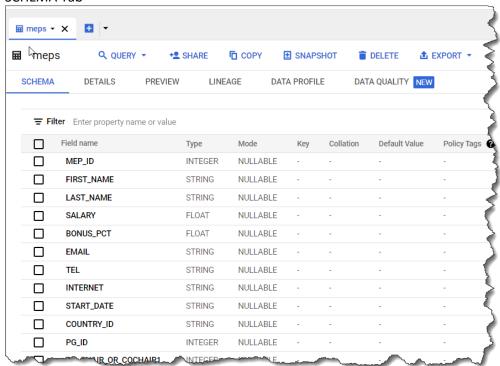
### Here is my table.



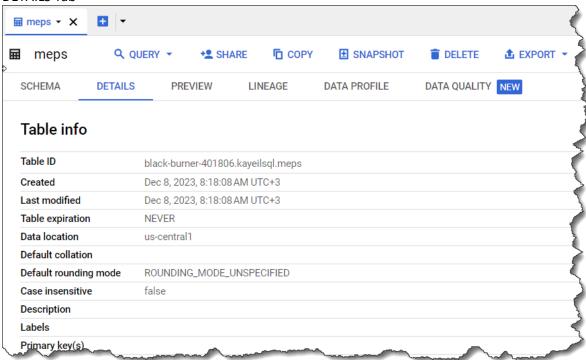
From View Actions (the three vertical dots), I click on Open.



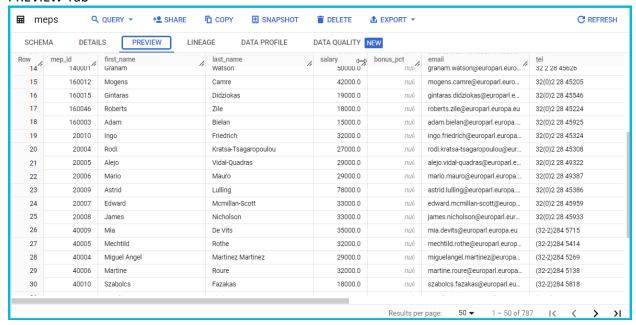
#### **SCHEMA Tab**



#### **DETAILS Tab**



#### **PREVIEW Tab**

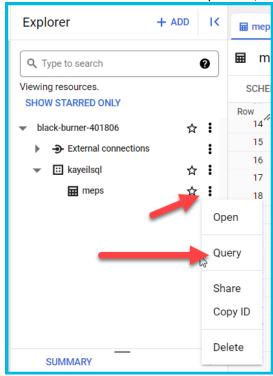


This is the easiest and quickest way to create a table, and insert data in it, that I have come across so far.

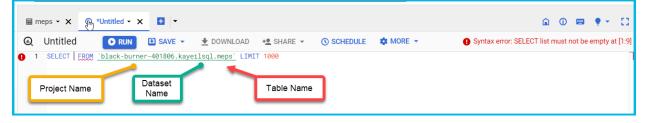
### Query the Table

Now, we will query the data in SQL Worksheet.

From View Actions next to the meps table, I click on Query.

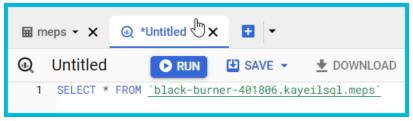


It opens an Editor, and gives me a SELECT statement with no columns, but with the complete syntax for the table name: **project\_name.dataset\_name.table\_name**. Thank you Google BigQuery! Also, because there are yet no columns, a syntax error is displayed.



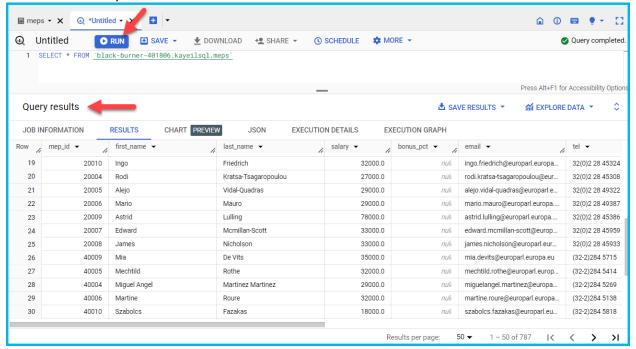
I change the query to select all columns.

I clear the LIMIT clause.



### I click on the RUN button.

Here are the Query Results!



This is how I create a table in Google BigQuery with full data, using a CSV file from my local. Very simple!

I wish you all the best; health, courage, hope, and strength and the will to go after your dreams.



Dicle Ertan Ülger