


Visualizing BigQuery Data in Data Studio

[Data Studio](#) and [BigQuery](#) together form a powerful combination that allows you to create dashboards that empower users to understand the information and insights in your data. These dashboards can easily be shared using the familiar interface of Google Drive, and embedded in sites for even broader distribution.


In the [Cloud Console](#), on the project selector page, select the Cloud project(our Data Pipeline project) This option is available in a drop down menu in the top left portion of the screen. Make sure that billing is enabled for your Google Cloud project. [Data Studio](#) is Google's free data visualization tool and [BigQuery](#) is Google Cloud's fully-managed, highly scalable, and cost-effective cloud data warehouse . So we will use the tables we created in BQ using our data pipeline as source for Data Studio and create visualizations.

Create a data source

The first step in creating a report in Data Studio is to create a data source for the report. A report may contain one or more data sources. When you create a BigQuery data source, Data Studio uses the BigQuery connector.

 Data Studio


Q Search Data Studio


 Create


Recent


Reports


Data source

 Recent


 Shared with me

 Owned by me

 Trash

 Templates

Start with a Template



Blank Report
Data Studio

Name

In the **Add a data to report** window, view the **Connect to data** section and select **BigQuery** by clicking. Choose the PROJECT , DATASET and TABLE . In the lower right corner of the window, click **Add**. If you get a dialog box saying "You are about to add data to this report," click on "ADD TO REPORT" to proceed.


EDIT DATA INPUT (CHANGE DATA TYPE)

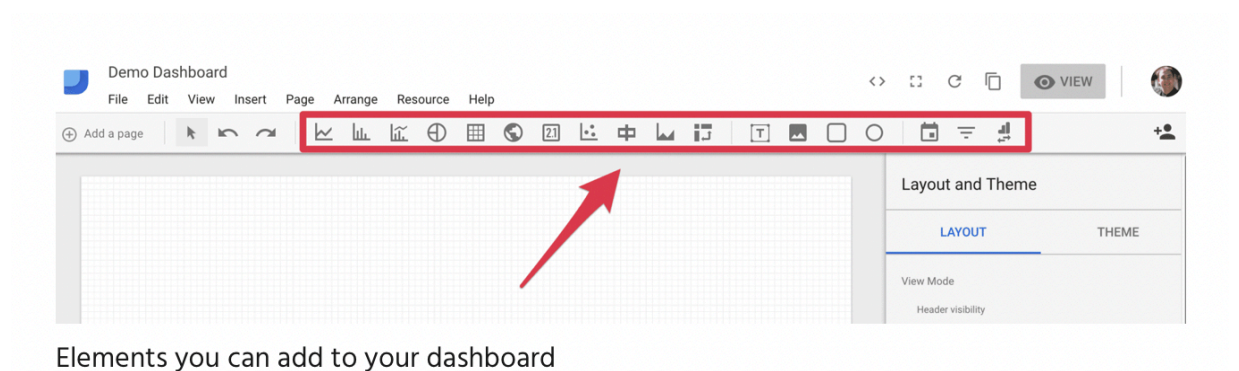
combined_data

Data creden

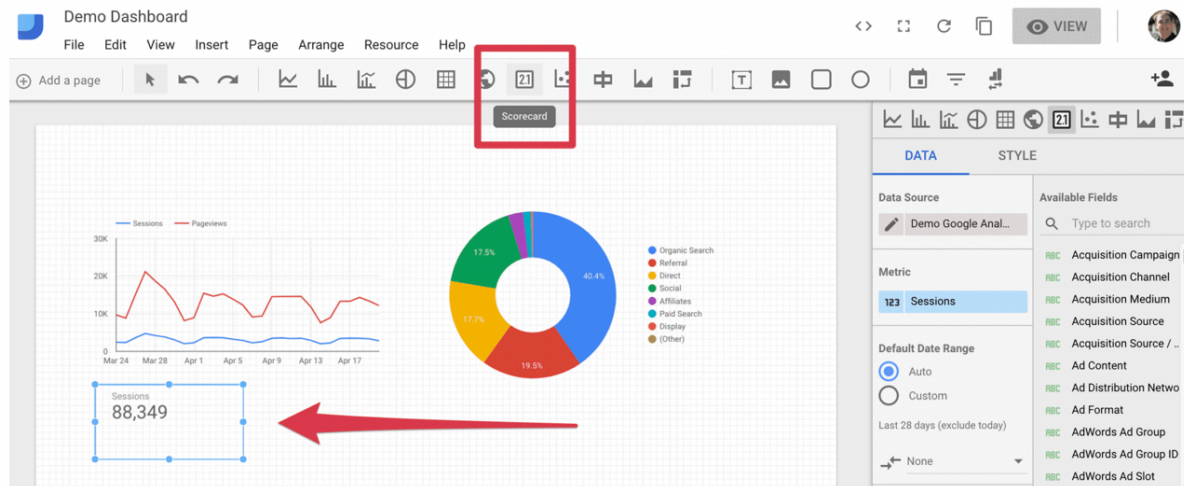
EDIT CONNECTION

FILTER BY EMAIL

Field		Type		Default Aggregation		Description	
DIMENSIONS (9)							
actuals_cases	⋮	123	Number	▼	None	▼	
actuals_deaths	⋮	123	Number	▼	None	▼	
actuals_newcases	⋮	123	Number	▼	None	▼	
actuals_newdeaths	⋮	123	Number	▼	None	▼	
actuals_vaccinationscom...	⋮	123	Number	▼	None	▼	
date	⋮		Date & Time	▼	None		
fips	⋮	123	Number	▼	None	▼	
risklevels_overall	⋮	123	Number	▼	None	▼	
state	⋮	ABC	Text	▼	None		



Scorecards are a powerful element that allows us to present raw metrics. For this example, let's add a scorecard element under our line graph.

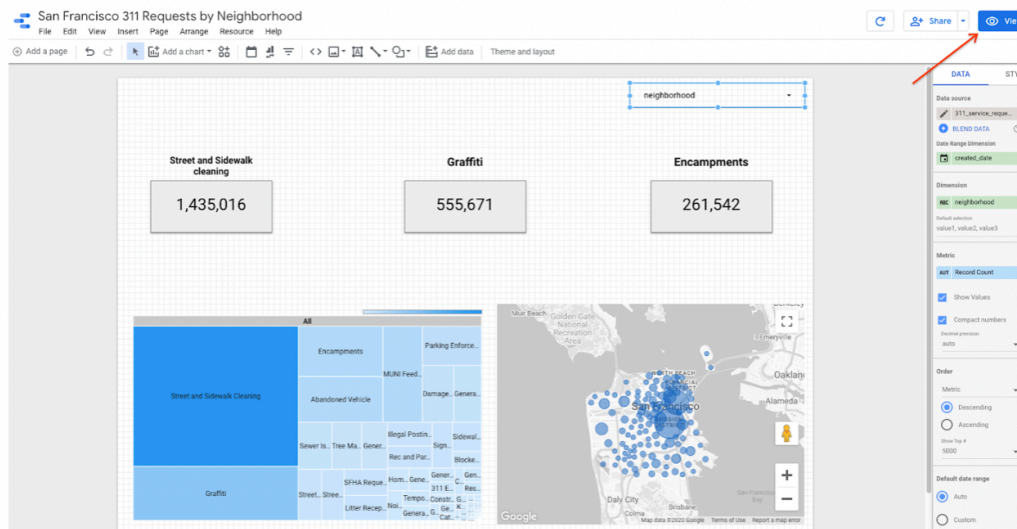


Add a scorecard

Testing your dashboard

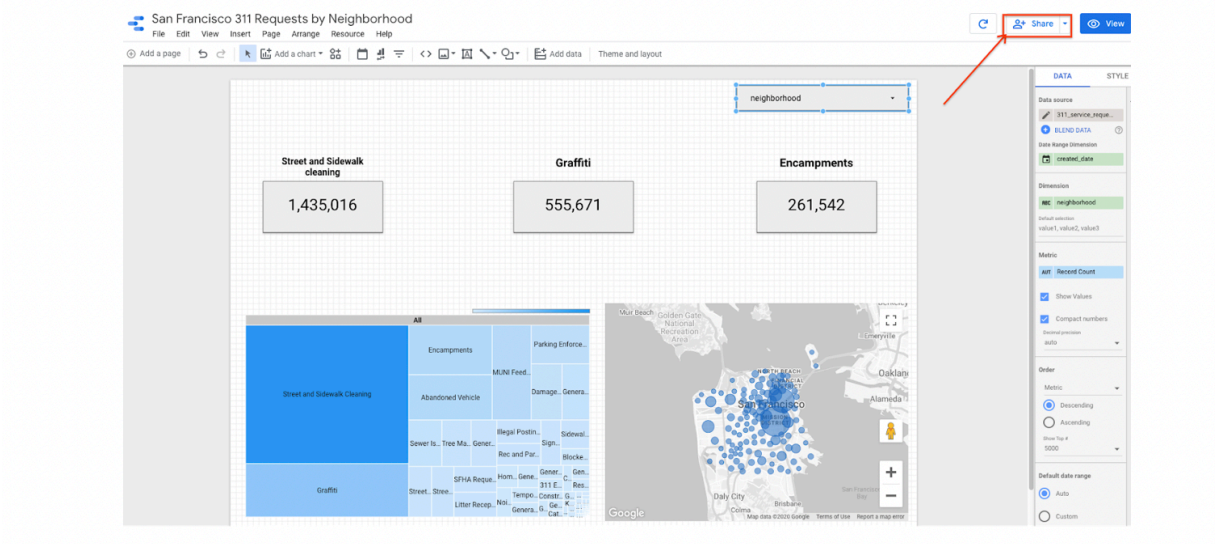
Now that the dashboard is complete, let's take a look at it from the viewer perspective to ensure everything works as expected.

Click **View** in the top right corner, and you will be able to view the dashboard from the perspective of your viewers.



Sharing dashboard

Clicking the **Share** button in the top right corner will open the sharing interface with a number of options, including sharing with individual users by email, sharing by domain, or making it publicly available to all users. This last setting is particularly useful if you wish to embed the report on a public website.



DASHBOARD FOR CURRENT DATA

We have two pages for the COVID dashboard in the current project