

First, we can scroll down to the right to see more data. In Pandas, this is not as easy and intuitive as D-Tale. Then, in the left-hand corner, you can see the number of columns and rows in the left-hand corner without typing any code. Roverying at the top, you will see the navigation menu.

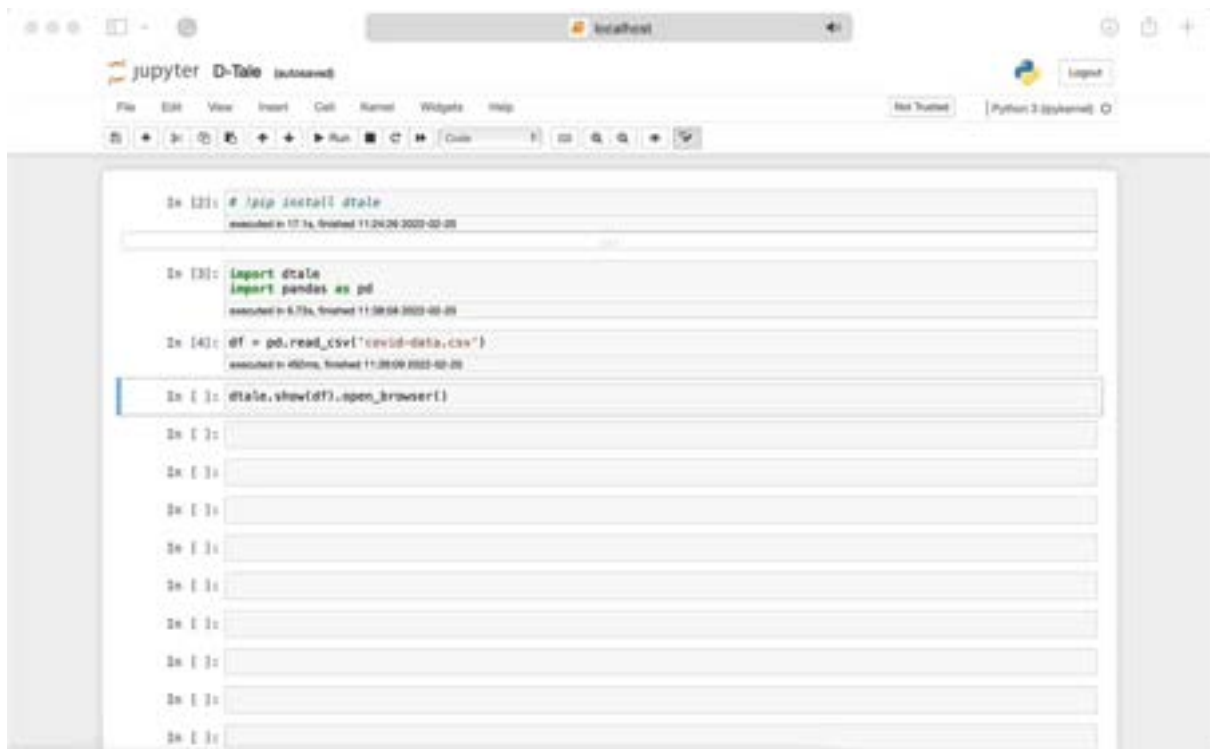
dtale.show(df)

67 153172	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths
1	AFG	Asia	Afghanistan	2020-02-25	5.00	0.00	nan	nan	nan
2	AFG	Asia	Afghanistan	2020-02-26	5.00	0.00	nan	nan	nan
3	AFG	Asia	Afghanistan	2020-02-27	5.00	0.00	nan	nan	nan
4	AFG	Asia	Afghanistan	2020-02-28	5.00	0.00	nan	nan	nan
5	AFG	Asia	Afghanistan	2020-02-29	5.00	0.00	0.71	nan	nan
6	AFG	Asia	Afghanistan	2020-03-01	5.00	0.00	0.71	nan	nan
7	AFG	Asia	Afghanistan	2020-03-02	5.00	0.00	0.00	nan	nan
8	AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan
9	AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan
10	AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan
11	AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan
12	AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan
13	AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan
14	AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan
15	AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan
16	AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan
17	AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan

GIF by the author

Now that we are familiarized with D-Tale, we will explore its features. Another thing about D-Tale is that we don't need to use it on Jupyter Notebook. So, let's use D-Tale in a different tab for demonstration purposes. It's up to you how you want to use it, though. Use the code below.

```
dtale.show(df).open_browser()
```



GIF by the author

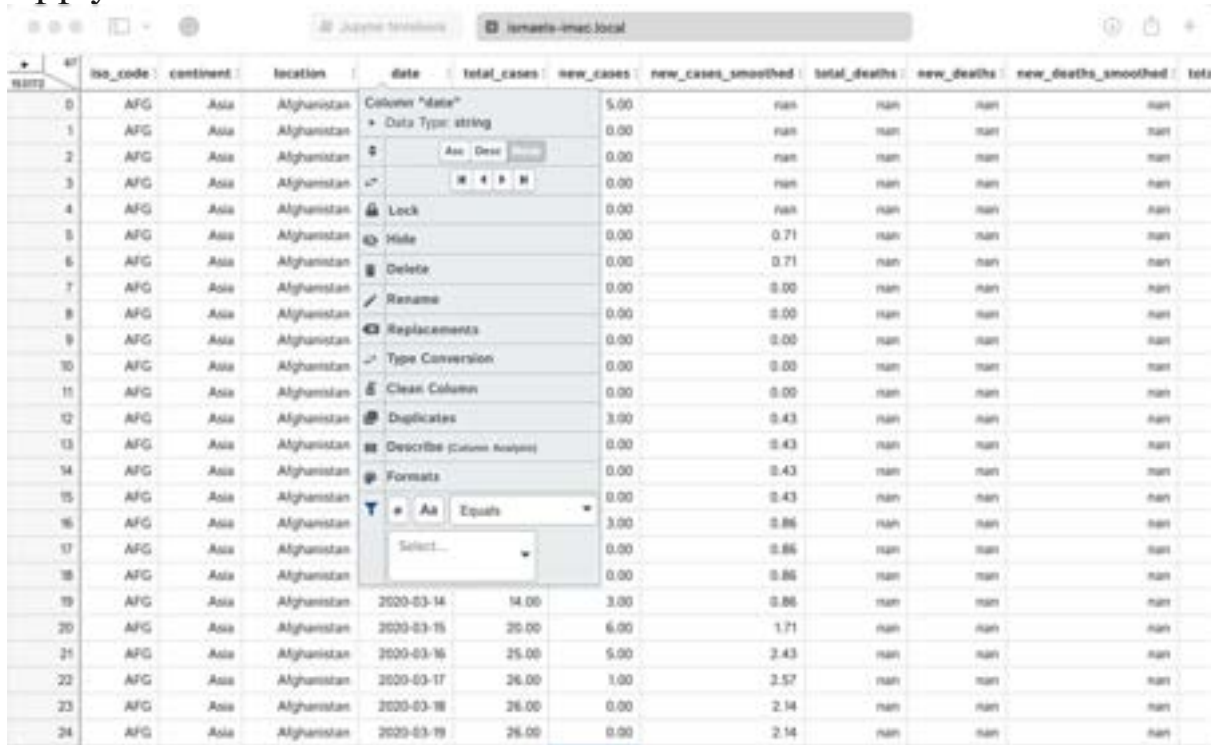
Data Preparation

Change datatype with one click

Changing datatype is not difficult on Pandas, even for beginners, and you shouldn't have problems changing them for one or two features. However, what if you need to change the datatype of 300+ features? This is not uncommon a professional environment, and typing hundreds of code lines is not the best use of our time for tasks like this. With D-Tale, we can change datatypes within a few clicks.

For example, in this dataset, I noticed that the date column is a string. We don't want that. Let's change it to DateTime. Just click on the column name, and right below the column name, click on **Type Conversion**, and select if you want to change **inplace** or create a new

column. Select the datatype, change the date format, and click Apply. That's it!



	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total_deaths_smoothed
0	AFG	Asia	Afghanistan	Column "date"		5.00	nan	nan	nan	nan	nan
1	AFG	Asia	Afghanistan	Data Type: string		0.00	nan	nan	nan	nan	nan
2	AFG	Asia	Afghanistan	Format: All		0.00	nan	nan	nan	nan	nan
3	AFG	Asia	Afghanistan	Lock		0.00	nan	nan	nan	nan	nan
4	AFG	Asia	Afghanistan	Hide		0.00	0.71	nan	nan	nan	nan
5	AFG	Asia	Afghanistan	Delete		0.00	0.71	nan	nan	nan	nan
6	AFG	Asia	Afghanistan	Rename		0.00	0.00	nan	nan	nan	nan
7	AFG	Asia	Afghanistan	Replacements		0.00	0.00	nan	nan	nan	nan
8	AFG	Asia	Afghanistan	Type Conversion		0.00	0.00	nan	nan	nan	nan
9	AFG	Asia	Afghanistan	Clean Column		0.00	0.00	nan	nan	nan	nan
10	AFG	Asia	Afghanistan	Duplicates		3.00	0.43	nan	nan	nan	nan
11	AFG	Asia	Afghanistan	Describe (Column Analysis)		0.00	0.43	nan	nan	nan	nan
12	AFG	Asia	Afghanistan	Formats		0.00	0.43	nan	nan	nan	nan
13	AFG	Asia	Afghanistan	All		0.00	0.43	nan	nan	nan	nan
14	AFG	Asia	Afghanistan	Equals		3.00	0.86	nan	nan	nan	nan
15	AFG	Asia	Afghanistan	Select...		0.00	0.86	nan	nan	nan	nan
16	AFG	Asia	Afghanistan			0.00	0.86	nan	nan	nan	nan
17	AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	nan
18	AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	nan
19	AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan	nan
20	AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	nan
21	AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.14	nan	nan	nan	nan
22	AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.14	nan	nan	nan	nan

GIF by the author

There is a bonus. Before applying the change, you can see the code that will be used. If you are learning Python, that's a fantastic add-on. There is more. Once the datatype is a DateTime, we can see additional information when clicking on the column name, such as skewness. Cool, right?

	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total_deaths_smoothed
0	AFG	Asia	Afghanistan	Column "date"	00	nan	nan	nan	nan	nan	nan
1	AFG	Asia	Afghanistan	• Data Type: datetime64[ns]	00	nan	nan	nan	nan	nan	nan
2	AFG	Asia	Afghanistan	• Skew: -0.06 (fairly symmetrical)	00	nan	nan	nan	nan	nan	nan
3	AFG	Asia	Afghanistan	• Kurtosis: -1.18 (platykurtic)	00	nan	nan	nan	nan	nan	nan
4	AFG	Asia	Afghanistan	As Desc	00	nan	nan	nan	nan	nan	nan
5	AFG	Asia	Afghanistan	Lock	00	0.71	nan	nan	nan	nan	nan
6	AFG	Asia	Afghanistan	Hide	00	0.06	nan	nan	nan	nan	nan
7	AFG	Asia	Afghanistan	Delete	00	0.00	nan	nan	nan	nan	nan
8	AFG	Asia	Afghanistan	Rename	00	0.00	nan	nan	nan	nan	nan
9	AFG	Asia	Afghanistan	Replacements	00	0.00	nan	nan	nan	nan	nan
10	AFG	Asia	Afghanistan	Type Conversion	00	0.00	nan	nan	nan	nan	nan
11	AFG	Asia	Afghanistan	Duplicates	00	0.43	nan	nan	nan	nan	nan
12	AFG	Asia	Afghanistan	Describe (column analyzed)	00	0.43	nan	nan	nan	nan	nan
13	AFG	Asia	Afghanistan	Formats	00	0.43	nan	nan	nan	nan	nan
14	AFG	Asia	Afghanistan	2020-01-01 to 2020-10-01	00	0.86	nan	nan	nan	nan	nan
15	AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	nan
16	AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	nan
17	AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	nan
18	AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	nan
19	AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan	nan
20	AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	nan
21	AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.14	nan	nan	nan	nan
22	AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.14	nan	nan	nan	nan

Image by the author

Create a new column with a different format

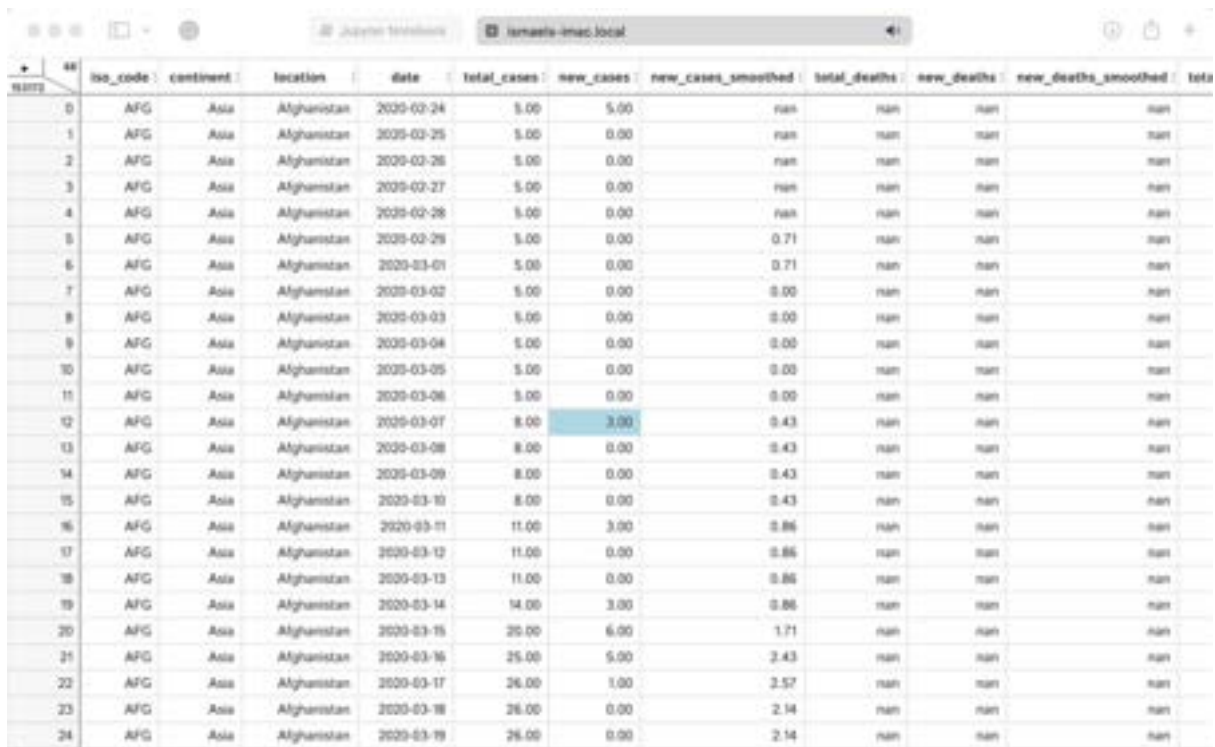
We can also create a new column with a different format. For demonstration purposes, let's convert the date column into a string. Just click on the column name you want to convert, then click on **Type Conversion**, click on **New Column**, choose the new column name, and select the datatype. Done!

	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total
0	AFG	Asia	Afghanistan	2020-03-24	5.00	5.00	nan	nan	nan	nan	nan
1	AFG	Asia	Afghanistan	2020-03-25	5.00	0.00	nan	nan	nan	nan	nan
2	AFG	Asia	Afghanistan	2020-03-26	5.00	0.00	nan	nan	nan	nan	nan
3	AFG	Asia	Afghanistan	2020-03-27	5.00	0.00	nan	nan	nan	nan	nan
4	AFG	Asia	Afghanistan	2020-03-28	5.00	0.00	nan	nan	nan	nan	nan
5	AFG	Asia	Afghanistan	2020-03-29	5.00	0.00	0.71	nan	nan	nan	nan
6	AFG	Asia	Afghanistan	2020-03-31	5.00	0.00	0.71	nan	nan	nan	nan
7	AFG	Asia	Afghanistan	2020-03-02	5.00	0.00	0.00	nan	nan	nan	nan
8	AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan	nan
9	AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan	nan	nan
10	AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan	nan	nan
11	AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan	nan	nan
12	AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan	nan	nan
13	AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan	nan	nan
14	AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan	nan	nan
15	AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan	nan	nan
16	AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan	nan	nan
17	AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan	nan	nan
18	AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	nan
19	AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	nan
20	AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	nan
21	AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan	nan
22	AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	nan
23	AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.14	nan	nan	nan	nan
24	AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.14	nan	nan	nan	nan

GIF by the author

Dropping columns

Dropping columns couldn't be easier. Select the column you want to delete, click on `Delete`, click on `Yes` in the pop-up window, and the column is gone. And yeah, typing the code to drop columns is just as easy, but not this easy.



The screenshot shows a Jupyter Notebook interface with a browser window displaying 'ismaila-ismail.local'. Below the browser, a data table is displayed. The table has 13 columns: 'iso_code', 'continent', 'location', 'date', 'total_cases', 'new_cases', 'new_cases_smoothed', 'total_deaths', 'new_deaths', 'new_deaths_smoothed', and 'total'. The data rows represent daily records for Afghanistan (AFG) from February 24 to March 19, 2020. The 'new_cases' column for March 7 is highlighted in blue.

	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total
0	AFG	Asia	Afghanistan	2020-02-24	5.00	5.00	nan	nan	nan	nan	nan
1	AFG	Asia	Afghanistan	2020-02-25	5.00	0.00	nan	nan	nan	nan	nan
2	AFG	Asia	Afghanistan	2020-02-26	5.00	0.00	nan	nan	nan	nan	nan
3	AFG	Asia	Afghanistan	2020-02-27	5.00	0.00	nan	nan	nan	nan	nan
4	AFG	Asia	Afghanistan	2020-02-28	5.00	0.00	nan	nan	nan	nan	nan
5	AFG	Asia	Afghanistan	2020-02-29	5.00	0.00	0.71	nan	nan	nan	nan
6	AFG	Asia	Afghanistan	2020-03-01	5.00	0.00	0.71	nan	nan	nan	nan
7	AFG	Asia	Afghanistan	2020-03-02	5.00	0.00	0.00	nan	nan	nan	nan
8	AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan	nan
9	AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan	nan	nan
10	AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan	nan	nan
11	AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan	nan	nan
12	AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan	nan	nan
13	AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan	nan	nan
14	AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan	nan	nan
15	AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan	nan	nan
16	AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan	nan	nan
17	AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan	nan	nan
18	AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	nan
19	AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	nan
20	AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	nan
21	AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan	nan
22	AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	nan
23	AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.14	nan	nan	nan	nan
24	AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.14	nan	nan	nan	nan

GIF by the author

Change the column's name

Renaming columns process: click, rename, save. This easy! Just click on the column's name, click on `Rename`, choose the name, and save it. It's done. This is particularly handy if you need to change the name of dozens of columns.

	loc_code	continent	location	date	total_cases	new_cases	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million	new_deaths_smoothed
0	AFG	Asia	Afghanistan	2020-02-24	5.00	5.00	nan	nan	nan	0.13	
1	AFG	Asia	Afghanistan	2020-02-25	5.00	0.00	nan	nan	nan	0.13	
2	AFG	Asia	Afghanistan	2020-02-26	5.00	0.00	nan	nan	nan	0.13	
3	AFG	Asia	Afghanistan	2020-02-27	5.00	0.00	nan	nan	nan	0.13	
4	AFG	Asia	Afghanistan	2020-02-28	5.00	0.00	nan	nan	nan	0.13	
5	AFG	Asia	Afghanistan	2020-02-29	5.00	0.00	nan	nan	nan	0.13	
6	AFG	Asia	Afghanistan	2020-03-01	5.00	0.00	nan	nan	nan	0.13	
7	AFG	Asia	Afghanistan	2020-03-02	5.00	0.00	nan	nan	nan	0.13	
8	AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	nan	nan	nan	0.13	
9	AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	nan	nan	nan	0.13	
10	AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	nan	nan	nan	0.13	
11	AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	nan	nan	nan	0.13	
12	AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	nan	nan	nan	0.20	
13	AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	nan	nan	nan	0.20	
14	AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	nan	nan	nan	0.20	
15	AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	nan	nan	nan	0.20	
16	AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	nan	nan	nan	0.28	
17	AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	nan	nan	nan	0.28	
18	AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	nan	nan	nan	0.28	
19	AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	nan	nan	nan	0.35	
20	AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	nan	nan	nan	0.50	
21	AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	nan	nan	nan	0.63	
22	AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	nan	nan	nan	0.65	
23	AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	nan	nan	nan	0.65	
24	AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	nan	nan	nan	0.65	

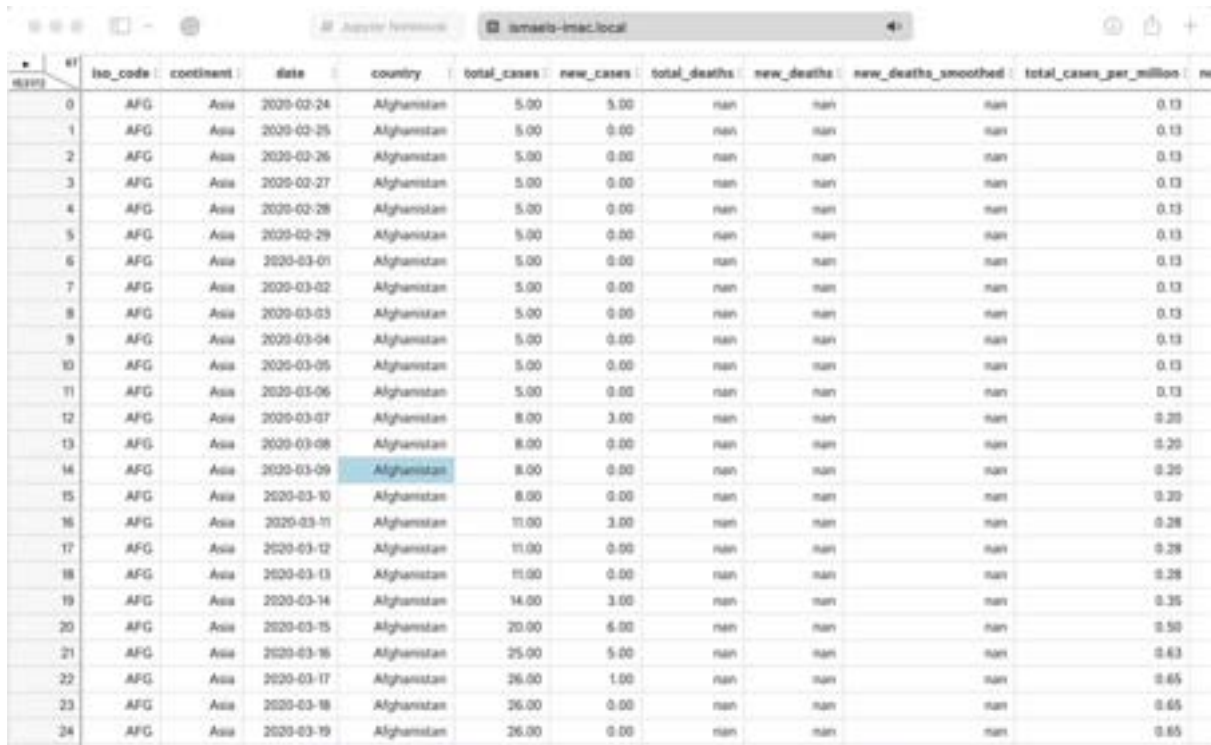
GIF by the author

Data Transformation

Filtering data

Filtering data is extremely easy. Click on the column you want to filter. At the bottom, you will see the filtering options. You can filter any datatype. D-Tale has filtering options such as equals, greater/smaller than, different than, etc. It's all there!


In the example below, I'm filtering the continents to show only data from North America.



	iso_code	continent	date	country	total_cases	new_cases	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million	new_cases_per_million
0	AFG	Asia	2020-02-24	Afghanistan	5.00	5.00	nan	nan	nan	0.13	0.13
1	AFG	Asia	2020-02-25	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
2	AFG	Asia	2020-02-26	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
3	AFG	Asia	2020-02-27	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
4	AFG	Asia	2020-02-28	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
5	AFG	Asia	2020-02-29	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
6	AFG	Asia	2020-03-01	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
7	AFG	Asia	2020-03-02	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
8	AFG	Asia	2020-03-03	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
9	AFG	Asia	2020-03-04	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
10	AFG	Asia	2020-03-05	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
11	AFG	Asia	2020-03-06	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
12	AFG	Asia	2020-03-07	Afghanistan	8.00	3.00	nan	nan	nan	0.20	0.20
13	AFG	Asia	2020-03-08	Afghanistan	8.00	0.00	nan	nan	nan	0.20	0.20
14	AFG	Asia	2020-03-09	Afghanistan	8.00	0.00	nan	nan	nan	0.20	0.20
15	AFG	Asia	2020-03-10	Afghanistan	8.00	0.00	nan	nan	nan	0.20	0.20
16	AFG	Asia	2020-03-11	Afghanistan	11.00	3.00	nan	nan	nan	0.28	0.28
17	AFG	Asia	2020-03-12	Afghanistan	11.00	0.00	nan	nan	nan	0.28	0.28
18	AFG	Asia	2020-03-13	Afghanistan	11.00	0.00	nan	nan	nan	0.28	0.28
19	AFG	Asia	2020-03-14	Afghanistan	14.00	3.00	nan	nan	nan	0.35	0.35
20	AFG	Asia	2020-03-15	Afghanistan	20.00	6.00	nan	nan	nan	0.50	0.50
21	AFG	Asia	2020-03-16	Afghanistan	25.00	5.00	nan	nan	nan	0.63	0.63
22	AFG	Asia	2020-03-17	Afghanistan	26.00	1.00	nan	nan	nan	0.65	0.65
23	AFG	Asia	2020-03-18	Afghanistan	26.00	0.00	nan	nan	nan	0.65	0.65
24	AFG	Asia	2020-03-19	Afghanistan	26.00	0.00	nan	nan	nan	0.65	0.65

GIF by the author

Merging data

To merge two dataframes, click on the  icon at the top left, and a new tab will open. You can upload datasets straight from the UI. Choose the datasets, how you want to join them, and that's pretty much it. You can also see the code at the bottom if you're going to use it in another project.

	iso_code	continent	date	country	total_cases	new_cases	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million	new_cases_per_million
0	AFG	Asia	2020-02-24	Afghanistan	5.00	5.00	nan	nan	nan	0.13	0.13
1	AFG	Asia	2020-02-25	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
2	AFG	Asia	2020-02-26	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
3	AFG	Asia	2020-02-27	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
4	AFG	Asia	2020-02-28	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
5	AFG	Asia	2020-02-29	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
6	AFG	Asia	2020-03-01	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
7	AFG	Asia	2020-03-02	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
8	AFG	Asia	2020-03-03	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
9	AFG	Asia	2020-03-04	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
10	AFG	Asia	2020-03-05	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
11	AFG	Asia	2020-03-06	Afghanistan	5.00	0.00	nan	nan	nan	0.13	0.13
12	AFG	Asia	2020-03-07	Afghanistan	8.00	3.00	nan	nan	nan	0.20	0.20
13	AFG	Asia	2020-03-08	Afghanistan	8.00	0.00	nan	nan	nan	0.20	0.20
14	AFG	Asia	2020-03-09	Afghanistan	8.00	0.00	nan	nan	nan	0.20	0.20
15	AFG	Asia	2020-03-10	Afghanistan	8.00	0.00	nan	nan	nan	0.20	0.20
16	AFG	Asia	2020-03-11	Afghanistan	11.00	3.00	nan	nan	nan	0.28	0.28
17	AFG	Asia	2020-03-12	Afghanistan	11.00	0.00	nan	nan	nan	0.28	0.28
18	AFG	Asia	2020-03-13	Afghanistan	11.00	0.00	nan	nan	nan	0.28	0.28
19	AFG	Asia	2020-03-14	Afghanistan	14.00	3.00	nan	nan	nan	0.35	0.35
20	AFG	Asia	2020-03-15	Afghanistan	20.00	6.00	nan	nan	nan	0.50	0.50
21	AFG	Asia	2020-03-16	Afghanistan	25.00	5.00	nan	nan	nan	0.63	0.63
22	AFG	Asia	2020-03-17	Afghanistan	26.00	1.00	nan	nan	nan	0.65	0.65
23	AFG	Asia	2020-03-18	Afghanistan	26.00	0.00	nan	nan	nan	0.65	0.65
24	AFG	Asia	2020-03-19	Afghanistan	26.00	0.00	nan	nan	nan	0.65	0.65

GIF by the author

Grouping By

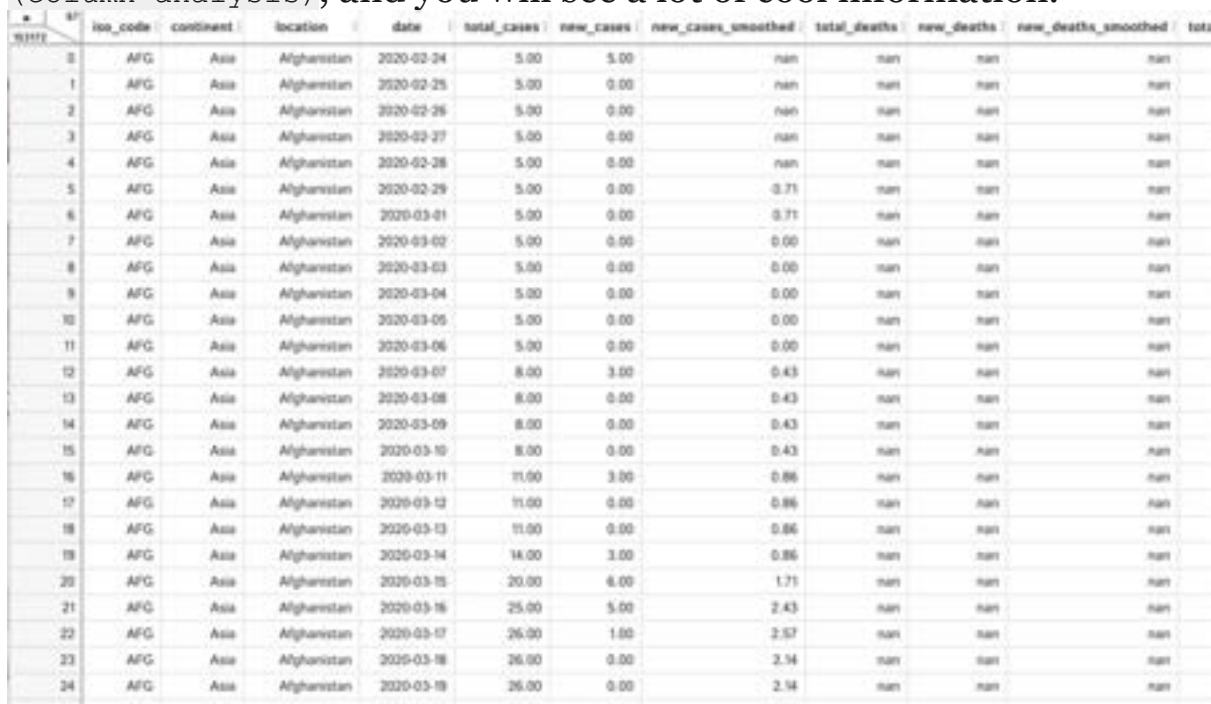
To group by, click on **Summarize Data**, select the columns you want to group by, the function (sum, count, mean, median, etc), and it's done. You can open it in the same tab or a different tab.

	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million	new_cases_per_million
0	AFG	Asia	Afghanistan	2020-02-24	5.00	5.00	nan	nan	nan	nan	0.13	0.13
1	AFG	Asia	Afghanistan	2020-02-25	5.00	0.00	nan	nan	nan	nan	0.13	0.13
2	AFG	Asia	Afghanistan	2020-02-26	5.00	0.00	nan	nan	nan	nan	0.13	0.13
3	AFG	Asia	Afghanistan	2020-02-27	5.00	0.00	nan	nan	nan	nan	0.13	0.13
4	AFG	Asia	Afghanistan	2020-02-28	5.00	0.00	nan	nan	nan	nan	0.13	0.13
5	AFG	Asia	Afghanistan	2020-02-29	5.00	0.00	0.71	nan	nan	nan	0.13	0.13
6	AFG	Asia	Afghanistan	2020-03-01	5.00	0.00	0.71	nan	nan	nan	0.13	0.13
7	AFG	Asia	Afghanistan	2020-03-02	5.00	0.00	0.00	nan	nan	nan	0.13	0.13
8	AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan	0.13	0.13
9	AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan	nan	0.13	0.13
10	AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan	nan	0.13	0.13
11	AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan	nan	0.13	0.13
12	AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan	nan	0.20	0.20
13	AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan	nan	0.20	0.20
14	AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan	nan	0.20	0.20
15	AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan	nan	0.20	0.20
16	AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan	nan	0.28	0.28
17	AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan	nan	0.28	0.28
18	AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	0.28	0.28
19	AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	0.35	0.35
20	AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	0.50	0.50
21	AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.14	nan	nan	nan	0.63	0.63
22	AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	0.65	0.65
23	AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.14	nan	nan	nan	0.65	0.65
24	AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.14	nan	nan	nan	0.65	0.65

Describe data


Need a quick summary of a feature? Not a problem. With D-Tale, you can see information such as value counts, missing values, frequency, statistics summarization such as mean, median, percentiles, standard deviation, skewness, word counts, and much more. Depending on the data type, it also shows a plot of the data, such as histogram, time series, bar plot, and so on.

To do so, just click on the column's name, then click on `Describe` (column analysis), and you will see a lot of cool information.



#	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed
0	AFG	Asia	Afghanistan	2020-02-24	5.00	5.00	nan	nan	nan	nan
1	AFG	Asia	Afghanistan	2020-02-25	5.00	0.00	nan	nan	nan	nan
2	AFG	Asia	Afghanistan	2020-02-26	5.00	0.00	nan	nan	nan	nan
3	AFG	Asia	Afghanistan	2020-02-27	5.00	0.00	nan	nan	nan	nan
4	AFG	Asia	Afghanistan	2020-02-28	5.00	0.00	nan	nan	nan	nan
5	AFG	Asia	Afghanistan	2020-02-29	5.00	0.00	0.71	nan	nan	nan
6	AFG	Asia	Afghanistan	2020-03-01	5.00	0.00	0.71	nan	nan	nan
7	AFG	Asia	Afghanistan	2020-03-02	5.00	0.00	0.00	nan	nan	nan
8	AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan
9	AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan	nan
10	AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan	nan
11	AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan	nan
12	AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan	nan
13	AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan	nan
14	AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan	nan
15	AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan	nan
16	AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan	nan
17	AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan	nan
18	AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan
19	AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan
20	AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan
21	AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan
22	AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan
23	AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.54	nan	nan	nan
24	AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.54	nan	nan	nan

GIF by the author

If you want to quickly navigate through all the columns, you can click on the  sign at the top right, click on the summary option, and you will be able to check all the features individually with a click.

[need another GIF]

	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million
			Afghanistan	2020-02-24	5.00	5.00	nan	nan	nan	nan	0.13
			Afghanistan	2020-02-25	5.00	0.00	nan	nan	nan	nan	0.13
			Afghanistan	2020-02-26	5.00	0.00	nan	nan	nan	nan	0.13
			Afghanistan	2020-02-27	5.00	0.00	nan	nan	nan	nan	0.13
			Afghanistan	2020-02-28	5.00	0.00	nan	nan	nan	nan	0.13
			Afghanistan	2020-02-29	5.00	0.00	0.71	nan	nan	nan	0.13
			Afghanistan	2020-03-01	5.00	0.00	0.71	nan	nan	nan	0.13
			Afghanistan	2020-03-02	5.00	0.00	0.00	nan	nan	nan	0.13
			Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan	0.13
			Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan	nan	0.13
			Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan	nan	0.13
			Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan	nan	0.13
			Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan	nan	0.20
			Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan	nan	0.20
			Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan	nan	0.20
			Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan	nan	0.20
			Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan	nan	0.28
			Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan	nan	0.28
			Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	0.28
			Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	0.35
			Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	0.50
			Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan	0.63
			Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	0.65
			Afghanistan	2020-03-18	26.00	0.00	2.57	nan	nan	nan	0.65
			Afghanistan	2020-03-19	26.00	0.00	2.57	nan	nan	nan	0.65
			Afghanistan	2020-03-20	24.00	-2.00	1.86	nan	nan	nan	0.60
			Afghanistan	2020-03-21	24.00	0.00	1.86	nan	nan	nan	0.60

Data Visualization

Data visualization is one of the most time-consuming tasks during data analyses. It can be a nightmare for beginners to make them look good, but fortunately, D-Tale can also help with that. You can create visualizations with a few clicks, and the best part: you can get the code and learn what is going on.

Bar plot

Let's start creating a bar plot. To create a bar plot, click on the top right, go to charts, and a GUI will open. There, you can select one type of plot between thirteen options! From there, select the X and Y variables, the type of aggregation, if any, and voilà, you just got a nice looking graph.

In the example below, I'm putting continent in the x-axis and number of total COVID cases by continent in the y-axis.

	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million
0	AFG	Asia	Afghanistan	2020-02-24	5.00	5.00	nan	nan	nan	nan	0.13
1	AFG	Asia	Afghanistan	2020-02-25	5.00	0.00	nan	nan	nan	nan	0.13
2	AFG	Asia	Afghanistan	2020-02-26	5.00	0.00	nan	nan	nan	nan	0.13
3	AFG	Asia	Afghanistan	2020-02-27	5.00	0.00	nan	nan	nan	nan	0.13
4	AFG	Asia	Afghanistan	2020-02-28	5.00	0.00	nan	nan	nan	nan	0.13
5	AFG	Asia	Afghanistan	2020-02-29	5.00	0.00	0.71	nan	nan	nan	0.13
6	AFG	Asia	Afghanistan	2020-03-01	5.00	0.00	0.71	nan	nan	nan	0.13
7	AFG	Asia	Afghanistan	2020-03-02	5.00	0.00	0.00	nan	nan	nan	0.13
8	AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan	0.13
9	AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan	nan	0.13
10	AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan	nan	0.13
11	AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan	nan	0.13
12	AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan	nan	0.20
13	AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan	nan	0.20
14	AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan	nan	0.20
15	AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan	nan	0.20
16	AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan	nan	0.28
17	AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan	nan	0.28
18	AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	0.28
19	AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	0.35
20	AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	0.50
21	AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan	0.63
22	AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	0.65
23	AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.57	nan	nan	nan	0.65
24	AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.57	nan	nan	nan	0.65
25	AFG	Asia	Afghanistan	2020-03-20	24.00	-2.00	1.86	nan	nan	nan	0.60
26	AFG	Asia	Afghanistan	2020-03-21	24.00	0.00	1.43	nan	nan	nan	0.60
27	AFG	Asia	Afghanistan	2020-03-22	34.00	10.00	3.00	nan	nan	nan	0.85
28	AFG	Asia	Afghanistan	2020-03-23	40.00	6.00	3.57	1.00	1.00	0.54	1.00
29	AFG	Asia	Afghanistan	2020-03-24	47.00	7.00	4.14	1.00	1.00	0.54	1.00

GIF by the author

If you want to group the data, write the variable you want to group and do. In this example, I'm grouping the countries into continent groups.

	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million	new_cases
0	AFG	Asia	Afghanistan	2020-02-24	5.00	5.00	nan	nan	nan	nan	0.13	5.00
1	AFG	Asia	Afghanistan	2020-02-25	5.00	0.00	nan	nan	nan	nan	0.13	0.00
2	AFG	Asia	Afghanistan	2020-02-26	5.00	0.00	nan	nan	nan	nan	0.13	0.00
3	AFG	Asia	Afghanistan	2020-02-27	5.00	0.00	nan	nan	nan	nan	0.13	0.00
4	AFG	Asia	Afghanistan	2020-02-28	5.00	0.00	nan	nan	nan	nan	0.13	0.00
5	AFG	Asia	Afghanistan	2020-02-29	5.00	0.00	0.71	nan	nan	nan	0.13	0.00
6	AFG	Asia	Afghanistan	2020-03-01	5.00	0.00	0.71	nan	nan	nan	0.13	0.00
7	AFG	Asia	Afghanistan	2020-03-02	5.00	0.00	0.00	nan	nan	nan	0.13	0.00
8	AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan	0.13	0.00
9	AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan	nan	0.13	0.00
10	AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan	nan	0.13	0.00
11	AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan	nan	0.13	0.00
12	AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan	nan	0.20	3.00
13	AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan	nan	0.20	0.00
14	AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan	nan	0.20	0.00
15	AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan	nan	0.20	0.00
16	AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan	nan	0.28	3.00
17	AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan	nan	0.28	0.00
18	AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	0.28	0.00
19	AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	0.35	3.00
20	AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	0.50	6.00
21	AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan	0.63	5.00
22	AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	0.65	1.00
23	AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.57	nan	nan	nan	0.65	0.00
24	AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.57	nan	nan	nan	0.65	0.00
25	AFG	Asia	Afghanistan	2020-03-20	24.00	-2.00	1.86	nan	nan	nan	0.60	-2.00
26	AFG	Asia	Afghanistan	2020-03-21	24.00	0.00	1.43	nan	nan	nan	0.60	0.00
27	AFG	Asia	Afghanistan	2020-03-22	34.00	10.00	3.00	nan	nan	nan	0.85	10.00
28	AFG	Asia	Afghanistan	2020-03-23	40.00	6.00	3.57	1.00	1.00	0.54	1.00	6.00
29	AFG	Asia	Afghanistan	2020-03-24	47.00	7.00	4.14	1.00	1.00	0.54	1.00	7.00

GIF by the author

Plot code

As I mentioned, you can easily get the code to check how the plot was created. It's a good way of learning or even delivering final products, since the charts are good looking and could be use as the final version.



GIF by the author

Scatter Plot

Creating a scatter plot is just as easy as a bar plot. Choose the x- and y-axis, group, if you want to, and boom. You got a scatter plot.

Below, I'm checking the relationship between the number of new cases and the number of vaccinated people against COVID-19.

D-Tale		Actions	Visualize	Highlight	Settings								
#	df	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million	new_cases
0		AFG	Asia	Afghanistan	2020-02-24	5.00	5.00	nan	nan	nan	nan	0.13	
1		AFG	Asia	Afghanistan	2020-02-25	5.00	0.00	nan	nan	nan	nan	0.13	
2		AFG	Asia	Afghanistan	2020-02-26	5.00	0.00	nan	nan	nan	nan	0.13	
3		AFG	Asia	Afghanistan	2020-02-27	5.00	0.00	nan	nan	nan	nan	0.13	
4		AFG	Asia	Afghanistan	2020-02-28	5.00	0.00	nan	nan	nan	nan	0.13	
5		AFG	Asia	Afghanistan	2020-02-29	5.00	0.00	0.71	nan	nan	nan	0.13	
6		AFG	Asia	Afghanistan	2020-03-01	5.00	0.00	0.71	nan	nan	nan	0.13	
7		AFG	Asia	Afghanistan	2020-03-02	5.00	0.00	0.00	nan	nan	nan	0.13	
8		AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan	0.13	
9		AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan	nan	0.13	
10		AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan	nan	0.13	
11		AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan	nan	0.13	
12		AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan	nan	0.20	
13		AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan	nan	0.20	
14		AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan	nan	0.20	
15		AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan	nan	0.20	
16		AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan	nan	0.28	
17		AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan	nan	0.28	
18		AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	0.28	
19		AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	0.35	
20		AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	0.50	
21		AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan	0.63	
22		AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	0.65	
23		AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.58	nan	nan	nan	0.65	
24		AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.58	nan	nan	nan	0.65	
25		AFG	Asia	Afghanistan	2020-03-20	24.00	-2.00	1.86	nan	nan	nan	0.60	
26		AFG	Asia	Afghanistan	2020-03-21	24.00	0.00	1.43	nan	nan	nan	0.60	
27		AFG	Asia	Afghanistan	2020-03-22	34.00	10.00	2.00	nan	nan	nan	0.85	
100	10000	AFG	Asia	Afghanistan	2020-03-22	34.00	10.00	2.00	nan	nan	nan	0.85	

GIF by the author

Time Series

D-Tale takes time series to another level. With one click, you can easily create a time series plot with them and go over different time series types, such as Hodrick-Prescott and Bacter-King filters. Pretty cool, huh?

#	loc_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million	new_
0	AFG	Asia	Afghanistan	2020-02-24	5.00	5.00	nan	nan	nan	nan	0.15	
1	AFG	Asia	Afghanistan	2020-02-25	5.00	0.00	nan	nan	nan	nan	0.15	
2	AFG	Asia	Afghanistan	2020-02-26	5.00	0.00	nan	nan	nan	nan	0.15	
3	AFG	Asia	Afghanistan	2020-02-27	5.00	0.00	nan	nan	nan	nan	0.15	
4	AFG	Asia	Afghanistan	2020-02-28	5.00	0.00	nan	nan	nan	nan	0.15	
5	AFG	Asia	Afghanistan	2020-02-29	5.00	0.00	nan	0.71	nan	nan	0.15	
6	AFG	Asia	Afghanistan	2020-03-01	5.00	0.00	nan	0.71	nan	nan	0.15	
7	AFG	Asia	Afghanistan	2020-03-02	5.00	0.00	nan	0.00	nan	nan	0.15	
8	AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan	0.15	
9	AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan	nan	0.15	
10	AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan	nan	0.15	
11	AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan	nan	0.15	
12	AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan	nan	0.20	
13	AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan	nan	0.20	
14	AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan	nan	0.20	
15	AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan	nan	0.20	
16	AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan	nan	0.28	
17	AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan	nan	0.28	
18	AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	0.28	
19	AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	0.35	
20	AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	0.50	
21	AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan	0.62	
22	AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	0.65	
23	AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.56	nan	nan	nan	0.65	
24	AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.54	nan	nan	nan	0.65	
25	AFG	Asia	Afghanistan	2020-03-20	24.00	-2.00	1.88	nan	nan	nan	0.60	
26	AFG	Asia	Afghanistan	2020-03-21	24.00	0.00	1.63	nan	nan	nan	0.60	
27	AFG	Asia	Afghanistan	2020-03-22	34.00	10.00	2.50	nan	nan	nan	0.85	
28	AFG	Asia	Afghanistan	2020-03-23	40.00	6.00	2.34	1.00	1.00	0.54	1.00	
29	AFG	Asia	Afghanistan	2020-03-24	42.00	2.00	2.29	1.00	0.00	0.54	1.05	
30	AFG	Asia	Afghanistan	2020-03-25	14.00	12.00	4.86	1.00	0.00	0.54	1.86	
31	AFG	Asia	Afghanistan	2020-03-26	80.00	6.00	7.71	2.00	1.00	0.29	2.01	
32	AFG	Asia	Afghanistan	2020-03-27	61.00	11.00	6.57	2.00	0.00	0.28	2.28	
33	AFG	Asia	Afghanistan	2020-03-28	106.00	45.00	10.71	2.00	0.00	0.29	2.66	
34	AFG	Asia	Afghanistan	2020-03-29	144.00	38.00	11.43	4.00	2.00	0.27	3.86	

GIF by the author

Describe Dataset

We already talked about this topic, but I want to mention some exciting visualizations that you can create with the summarization feature, such as histograms, exploring categories, and creating a QQ plot.

However, the coolest part is that you can interact the chosen columns with other columns and create instantaneous graphs. This is the best way to understand your dataset without spending hours typing code to get results that you could get with one click.

date	date	people_fully_vaccinated	total_boosters	new_vaccinations	new_vaccinations_smoothed	total_vaccinations_per_hundred	people_vaccinated_per_hundred	people_fully_vaccinated_per_hundred
0	1	nan	nan	nan	nan	nan	nan	nan
1	2	nan	nan	nan	nan	nan	nan	nan
2	3	nan	nan	nan	nan	nan	nan	nan
3	4	nan	nan	nan	nan	nan	nan	nan
4	5	nan	nan	nan	nan	nan	nan	nan
5	6	nan	nan	nan	nan	nan	nan	nan
6	7	nan	nan	nan	nan	nan	nan	nan
7	8	nan	nan	nan	nan	nan	nan	nan
8	9	nan	nan	nan	nan	nan	nan	nan
9	10	nan	nan	nan	nan	nan	nan	nan
10	11	nan	nan	nan	nan	nan	nan	nan
11	12	nan	nan	nan	nan	nan	nan	nan
12	13	nan	nan	nan	nan	nan	nan	nan
13	14	nan	nan	nan	nan	nan	nan	nan
14	15	nan	nan	nan	nan	nan	nan	nan
15	16	nan	nan	nan	nan	nan	nan	nan
16	17	nan	nan	nan	nan	nan	nan	nan
17	18	nan	nan	nan	nan	nan	nan	nan
18	19	nan	nan	nan	nan	nan	nan	nan
19	20	nan	nan	nan	nan	nan	nan	nan
20	21	nan	nan	nan	nan	nan	nan	nan
21	22	nan	nan	nan	nan	nan	nan	nan
22	23	nan	nan	nan	nan	nan	nan	nan
23	24	nan	nan	nan	nan	nan	nan	nan
24	25	nan	nan	nan	nan	nan	nan	nan
25	26	nan	nan	nan	nan	nan	nan	nan
26	27	nan	nan	nan	nan	nan	nan	nan
27	28	nan	nan	nan	nan	nan	nan	nan
28	29	nan	nan	nan	nan	nan	nan	nan

GIF by the author

More D-Tale Feature

On top of the data analysis options, D-Tale also offers some additional settings, such as choosing language and dark mode.

Change language and dark mode

D-Tale has some more complex tasks that can be confusing for non-English speakers, and if you are native language is Chinese or Portuguese, I got good news: D-Tale supports these two languages in addition to English to translate their UI.

It also supports dark mode for those who like it. I'm not the biggest fan of dark mode because I find it harder to read, but you should like this additional feature if you don't have this problem.

macbook-pro-2.local												
#	47	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million
0		AFG	Asia	Afghanistan	2020-03-24	5.00	5.00	nan	nan	nan	nan	0.13
1		AFG	Asia	Afghanistan	2020-03-25	5.00	0.00	nan	nan	nan	nan	0.13
2		AFG	Asia	Afghanistan	2020-03-26	5.00	0.00	nan	nan	nan	nan	0.13
3		AFG	Asia	Afghanistan	2020-03-27	5.00	0.00	nan	nan	nan	nan	0.13
4		AFG	Asia	Afghanistan	2020-03-28	5.00	0.00	nan	nan	nan	nan	0.13
5		AFG	Asia	Afghanistan	2020-03-29	5.00	0.00	0.71	nan	nan	nan	0.13
6		AFG	Asia	Afghanistan	2020-03-31	5.00	0.00	0.71	nan	nan	nan	0.13
7		AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan	0.13
8		AFG	Asia	Afghanistan	2020-03-03	5.00	0.00	0.00	nan	nan	nan	0.13
9		AFG	Asia	Afghanistan	2020-03-04	5.00	0.00	0.00	nan	nan	nan	0.13
10		AFG	Asia	Afghanistan	2020-03-05	5.00	0.00	0.00	nan	nan	nan	0.13
11		AFG	Asia	Afghanistan	2020-03-06	5.00	0.00	0.00	nan	nan	nan	0.13
12		AFG	Asia	Afghanistan	2020-03-07	8.00	3.00	0.43	nan	nan	nan	0.20
13		AFG	Asia	Afghanistan	2020-03-08	8.00	0.00	0.43	nan	nan	nan	0.20
14		AFG	Asia	Afghanistan	2020-03-09	8.00	0.00	0.43	nan	nan	nan	0.20
15		AFG	Asia	Afghanistan	2020-03-10	8.00	0.00	0.43	nan	nan	nan	0.20
16		AFG	Asia	Afghanistan	2020-03-11	11.00	3.00	0.86	nan	nan	nan	0.28
17		AFG	Asia	Afghanistan	2020-03-12	11.00	0.00	0.86	nan	nan	nan	0.28
18		AFG	Asia	Afghanistan	2020-03-13	11.00	0.00	0.86	nan	nan	nan	0.28
19		AFG	Asia	Afghanistan	2020-03-14	14.00	3.00	0.86	nan	nan	nan	0.35
20		AFG	Asia	Afghanistan	2020-03-15	20.00	6.00	1.71	nan	nan	nan	0.50
21		AFG	Asia	Afghanistan	2020-03-16	25.00	5.00	2.43	nan	nan	nan	0.63
22		AFG	Asia	Afghanistan	2020-03-17	26.00	1.00	2.57	nan	nan	nan	0.65
23		AFG	Asia	Afghanistan	2020-03-18	26.00	0.00	2.54	nan	nan	nan	0.65
24		AFG	Asia	Afghanistan	2020-03-19	26.00	0.00	2.54	nan	nan	nan	0.65
25		AFG	Asia	Afghanistan	2020-03-20	24.00	-2.00	1.86	nan	nan	nan	0.60
26		AFG	Asia	Afghanistan	2020-03-21	24.00	0.00	1.43	nan	nan	nan	0.60

Highlight columns

D-Tale allows us to highlight data depending on a few options. For example, you can highlight the data depending on the data type. We can also highlight NaN values and outliers to avoid missing them. You can also highlight data based on arguments, such as greater or smaller than a specific number.

	iso_code	continent	country	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_smoothed	total_cases_per_million	new_cases_per_million
0	AFG	Asia	Afghanistan	2020-02-23	5.0	0.00	nan	nan	nan	nan	0.13	0.13
1	AFG	Asia	Afghanistan	2020-03-01	5.0	0.00	nan	nan	nan	nan	0.13	0.13
2	AFG	Asia	Afghanistan	2020-03-02	5.0	0.00	nan	nan	nan	nan	0.13	0.13
3	AFG	Asia	Afghanistan	2020-03-03	5.0	0.00	nan	nan	nan	nan	0.13	0.13
4	AFG	Asia	Afghanistan	2020-03-04	5.0	0.00	nan	nan	nan	nan	0.13	0.13
5	AFG	Asia	Afghanistan	2020-03-05	5.0	0.00	0.71	nan	nan	nan	0.13	0.13
6	AFG	Asia	Afghanistan	2020-03-06	5.0	0.00	0.71	nan	nan	nan	0.13	0.13
7	AFG	Asia	Afghanistan	2020-03-07	5.0	0.00	0.00	nan	nan	nan	0.13	0.13
8	AFG	Asia	Afghanistan	2020-03-08	5.0	0.00	0.00	nan	nan	nan	0.13	0.13
9	AFG	Asia	Afghanistan	2020-03-09	5.0	0.00	0.00	nan	nan	nan	0.13	0.13
10	AFG	Asia	Afghanistan	2020-03-10	5.0	0.00	0.00	nan	nan	nan	0.13	0.13
11	AFG	Asia	Afghanistan	2020-03-11	5.0	0.00	0.00	nan	nan	nan	0.13	0.13
12	AFG	Asia	Afghanistan	2020-03-12	8.0	3.00	0.43	nan	nan	nan	0.20	0.20
13	AFG	Asia	Afghanistan	2020-03-13	8.0	0.00	0.43	nan	nan	nan	0.20	0.20
14	AFG	Asia	Afghanistan	2020-03-14	8.0	0.00	0.43	nan	nan	nan	0.20	0.20
15	AFG	Asia	Afghanistan	2020-03-15	8.0	0.00	0.43	nan	nan	nan	0.20	0.20
16	AFG	Asia	Afghanistan	2020-03-16	11.0	3.00	0.86	nan	nan	nan	0.28	0.28
17	AFG	Asia	Afghanistan	2020-03-17	11.0	0.00	0.86	nan	nan	nan	0.28	0.28
18	AFG	Asia	Afghanistan	2020-03-18	11.0	0.00	0.86	nan	nan	nan	0.28	0.28
19	AFG	Asia	Afghanistan	2020-03-19	14.0	3.00	0.86	nan	nan	nan	0.35	0.35
20	AFG	Asia	Afghanistan	2020-03-20	20.0	6.00	1.71	nan	nan	nan	0.50	0.50
21	AFG	Asia	Afghanistan	2020-03-21	25.0	5.00	2.43	nan	nan	nan	0.63	0.63
22	AFG	Asia	Afghanistan	2020-03-22	26.0	1.00	2.57	nan	nan	nan	0.65	0.65
23	AFG	Asia	Afghanistan	2020-03-23	26.0	0.00	2.56	nan	nan	nan	0.65	0.65
24	AFG	Asia	Afghanistan	2020-03-24	26.0	0.00	2.56	nan	nan	nan	0.65	0.65
25	AFG	Asia	Afghanistan	2020-03-25	26.0	-0.00	1.86	nan	nan	nan	0.60	0.60
26	AFG	Asia	Afghanistan	2020-03-26	26.0	0.00	1.43	nan	nan	nan	0.60	0.60
27	AFG	Asia	Afghanistan	2020-03-27	34.0	8.00	2.00	nan	nan	nan	0.85	0.85
28	AFG	Asia	Afghanistan	2020-03-28	40.0	6.00	2.56	1.00	1.00	0.56	1.00	1.00

GIF by the author

Final Thoughts

Phew. This was a lot. In this blog, we saw how D-Tale could make our life easier, even for those seasoned professionals, by turning tedious tasks into intuitive ones. There are so many cool and more complex features that were left out of this blog, so I recommend you to try it out, explore it, and find more features that will be useful for you.