

Weather Trends Project

The nearest big city to me is Cairo

Tools:

- 1- SQL
- 2- Google Sheets

Steps:

1- Extracting Cairo Data:

Input

HISTORY ▾

MENU ▾

SCHEMA

city_data ▾

city_list ▾

global_data ▾

1 SELECT * FROM city_list

2 WHERE city = 'Cairo' AND country = 'Egypt';

Success!

EVALUATE

Output

1 results

Download CSV

city	country
Cairo	Egypt

I needed to make sure that Cairo exists in the data set

Input

HISTORY ▾

MENU ▾

SCHEMA

city_data

year - (integer)

city

country

avg_temp

1

2

SELECT year, avg_temp FROM city_data

WHERE city = 'Cairo';

Success!

EVALUATE

Output

206 results

Download CSV

year	avg_temp
1808	17.11
1809	19.87
1810	19.93
1811	20.00
1812	19.93
1813	20.51
1814	20.43

Then, extracting Cairo's data from the city_data table and downloading this table as CSV-file

2- Extracting Global Data:

Input

HISTORY ▾

MENU ▾

SCHEMA

↺

city_data

▾

city_list

▾

global_data

▾

1

2

SELECT * FROM global_data;

Success!

EVALUATE

Output

266 results

Download CSV

The global data starts in 1750 while Cairo's data starts only in 1808. So, it is not faire to compare these data so, we need to equalize them

Input

HISTORY ▾

MENU ▾

SCHEMA ↺

city_data ▾

city_list ▾

global_data ▾

1 SELECT * FROM global_data

2 WHERE year >= '1808';

3

4

5

Success!

EVALUATE

Output 208 results

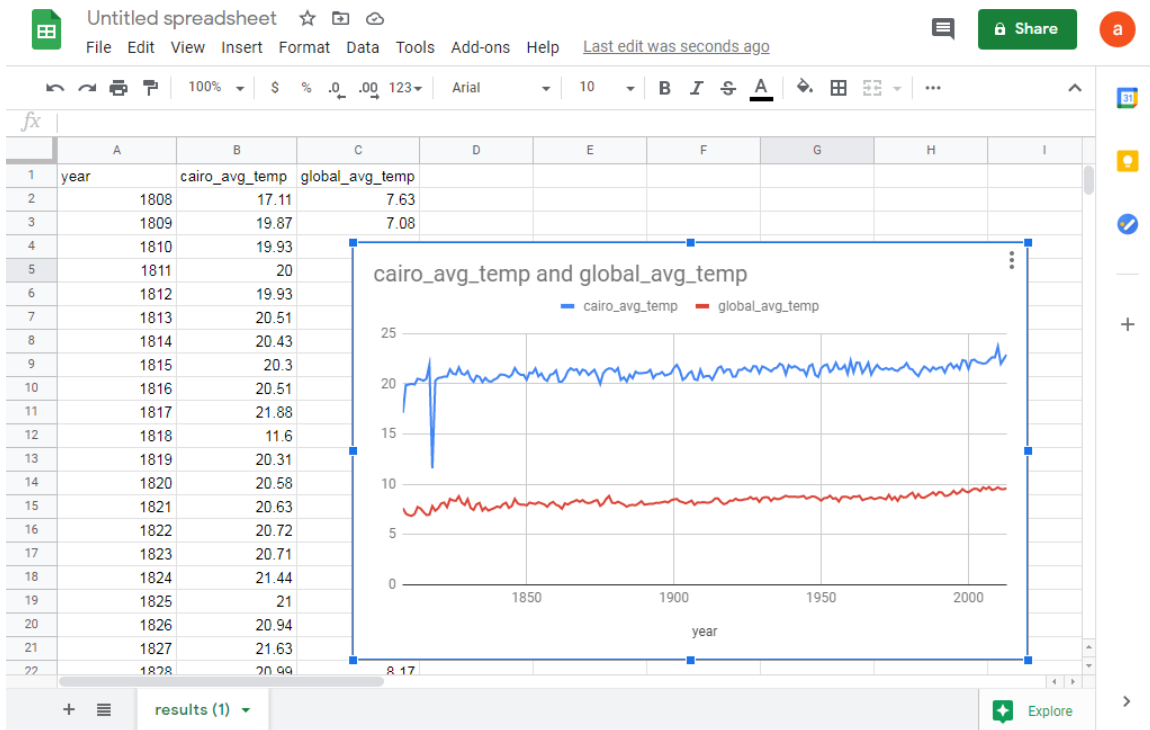
[Download CSV](#)

year	avg_temp
1808	7.63
1809	7.08
1810	6.92
1811	6.86
1812	7.05
1813	7.74
1814	7.59

So I think this query solved the problem

3- Visualization

Using Google Sheets, I uploaded both data and created line chart



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Conclusion:

The average global temp of Cairo is greater than the global one even the lowest temp of Cairo is greater the highest global one and this seems normal due to the location of Egypt in the north east corner of Africa.

We can see that both average temp increased over time

And this leads us to the global warming disaster. There is a drop in the average temp of Cairo in 1820s and it seems weird.