Weather Trends Project

The nearest big city to me is Cairo

Tools:
1- SQL
2- Google Sheets

Steps:
1- Check Whether Cairo exists:

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

2- Extracting Data:

SCHEMA   ↻

city_data   ∨

city_list   ∨

global_data   ∨

```
1    SELECT gd.year, cd.city, cd.avg_temp My_city,
2    gd.avg_temp World
3    FROM city_data cd
4        JOIN global_data gd ON gd.year = cd.year
5    WHERE cd.city = 'Cairo'
6    ORDER BY gd.year
7
8
```

Success!   EVALUATE

Output   206 results   ⬇ Download CSV

year	city	my_city	world
1808	Cairo	17.11	7.63
1809	Cairo	19.87	7.08
1810	Cairo	19.93	6.92
1811	Cairo	20.00	6.86
1812	Cairo	19.93	7.05
1813	Cairo	20.51	7.74

I have edited my query and used Joins to get both local data and global one in one table

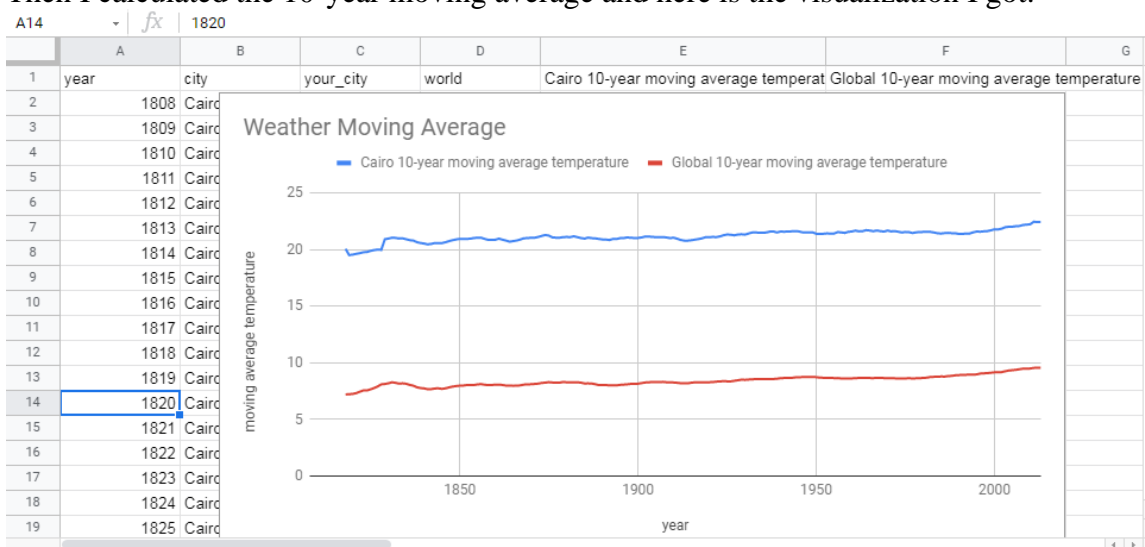So I think this query solved the problem

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

:
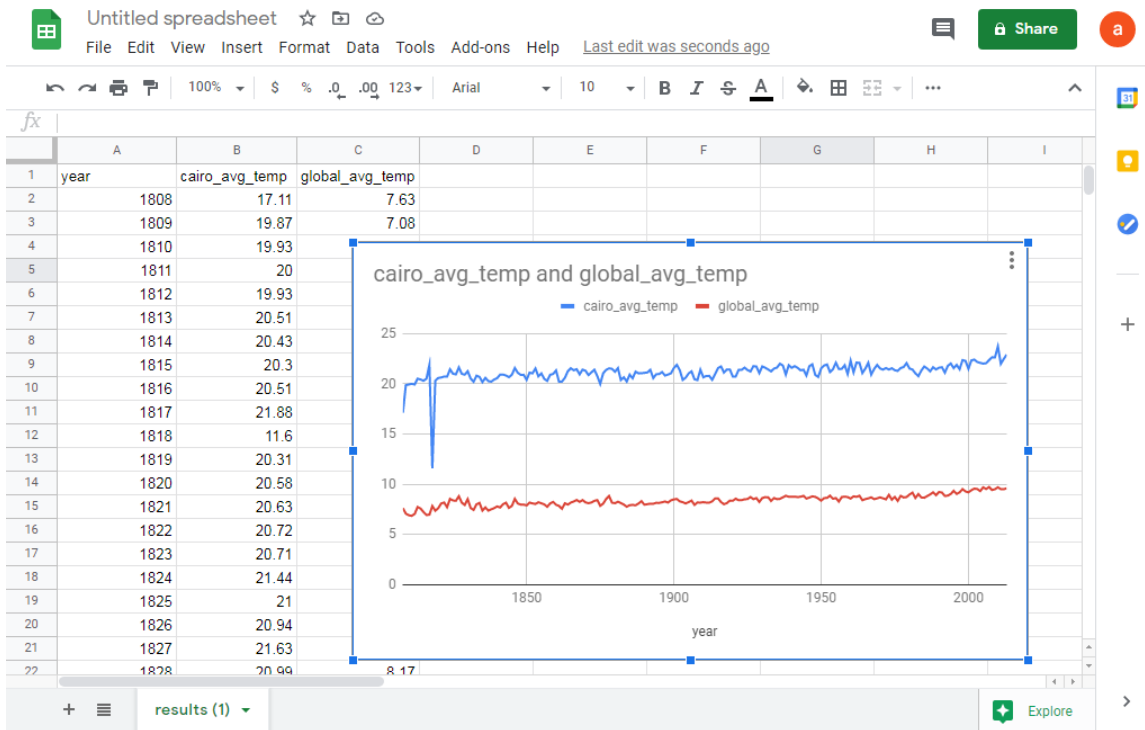
Then I calculated the 10-year moving average and here is the visualization I got:

Observations:

1- The local and global temperature is increasing over time and this is because of the global warming which affects nearly the whole world.

2- There is a drop in the temperature of Cairo in 1820s and this seems weird.

3- Egypt's temperature is higher than the global one and this is because of the location of Egypt in the north east corner of Africa.
4- The difference between Cairo temperature and the global one is about 15 degrees and it is quite consistent (except the during the drop I mentioned earlier).