

Submission Weather project

What tools did I used ?

I used SQL querries to extract datas and then I exported it to google sheets.

```
//Select datas from my city
```

```
WITH d1 AS (SELECT *  
FROM city_list  
WHERE country = 'France')
```

```
SELECT avg_temp, year  
FROM d1  
JOIN city_data cd  
ON d1.city = cd.city
```

```
//slect datas form the world
```

```
SELECT *  
FROM global_data  
ORDER BY year
```

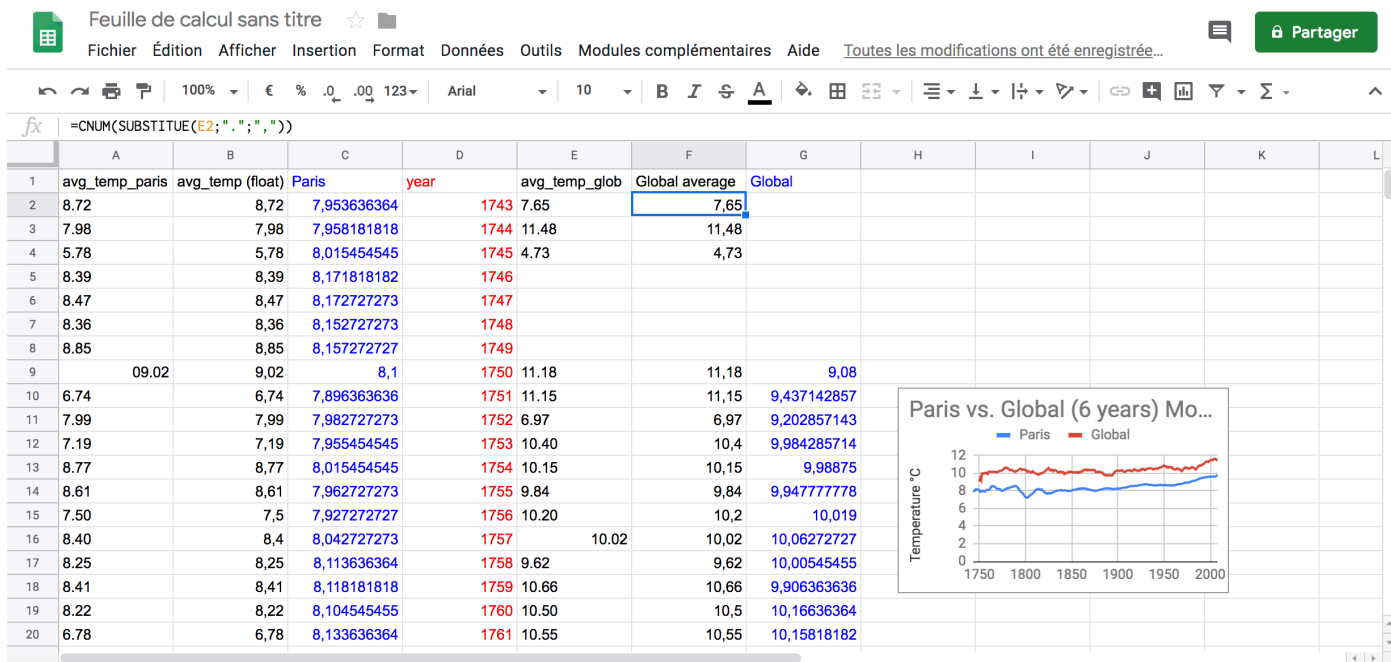
How did I calculate the moving average ?

=AVERAGE(B2:B6)

I did a moving average on 6 consecutive years.

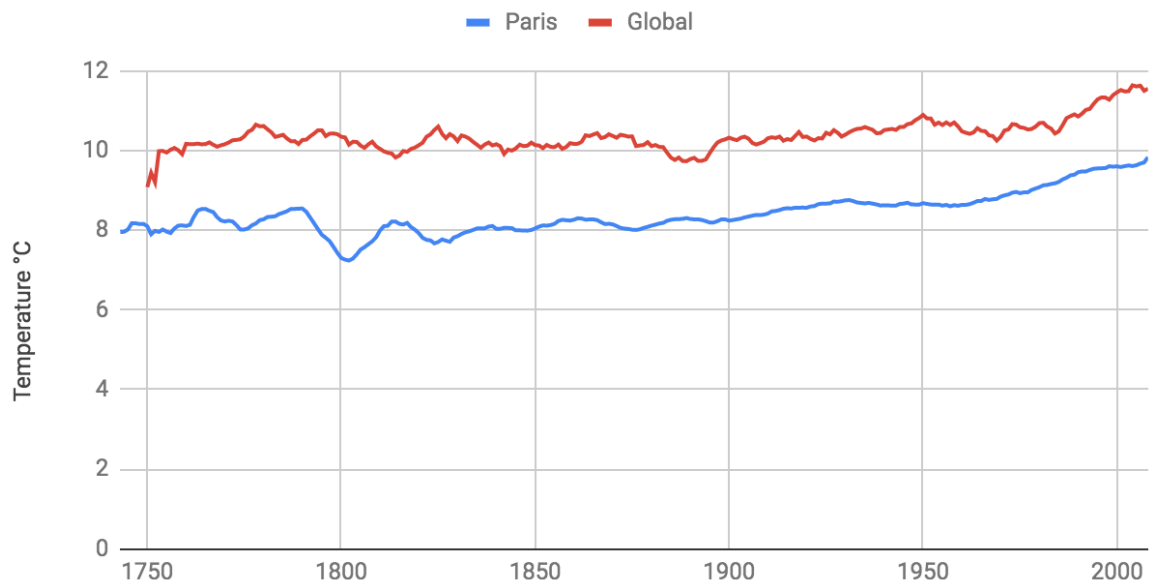
I failed to get rid of NaN values on excel. So my global average shut down at a moment cause of NaN values.

To visualize the tends I wanted to see two superposed curves from my city and the global evaluating over the years.



- 1) I imported avg_temp_paris and avg_temp_global
- 2) I transformed columns to actual numbers => $\text{=CNUM(SUBSTITUTE(B2;" ";""))}$
- 3) I did a ten years moving average => =AVERAGE(B2:B12) & =AVERAGE(F2:F12)
- 4) I noticed that global datas started in 1750 so pushed down the G column
- 5) I did the graph

Paris vs. Global (10 years) Moving Average Temperatures 1743 - 2013



6)

Observations

-My city (Paris) is really cold and fall 2 degrees behind the global average

-It tends on the last years >2000 to get warmer: for paris and the entire world. It's an augmentation of 1 to 1,5 degrees.

-Paris had a cold period in 1800 where the temperatures fall to 7 degrees.

-Paris tends to have few rises and falling in comparison to the rest of the word. Maybe it's caused by a lack of datas.