

## Outline of steps taken to prepare the data to be visualized in the chart

### STEPS IN SQL

- 1) Find closest place to home:

```
SELECT *  
FROM city_list  
WHERE country='France';
```

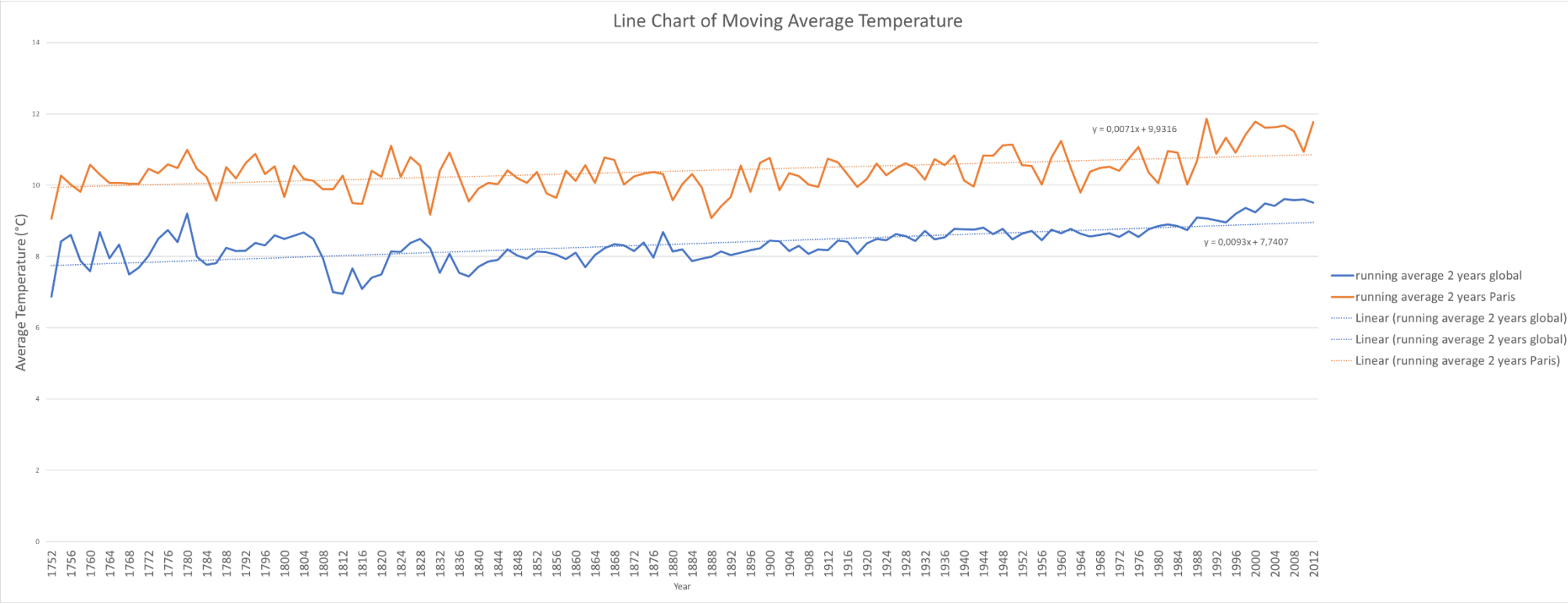
- 2) **Get data**

```
SELECT city_data.year year_city, city_data.avg_temp temp_paris, global_data.year year_global,  
global_data.avg_temp as avg_global  
FROM global_data  
JOIN city_data  
on city_data.year=global_data.year  
WHERE city = 'Paris'
```

### STEPS IN EXCEL

- 1) Organized data in 1 excel in different rows
- 2) Calculated running averages over 2 years for both Paris and global  
with formula:  
=AVERAGE(cell containing average T first year of interval – cell containing average T last year of interval)  
Paste this formula for all the following intervals.
- 3) Generated line chart including the data of Paris and global data
- 4) Added X-axis and Y-axis titles, gridlines, graph title, legend and trendline

GRAPH



## **OBSERVATIONS**

- 1.** The running average temperature in Paris is 10.39 °C whereas the running average temperature globally is 8.35 °C between 1750 and 2010.
- 2.** The average global temperature increases faster compared to the temperature in Paris based on the data between 1750 and 2010.
- 3.** The minimum average temperature between 1750 and 2010 was 9.06 °C for Paris and 6.88 °C globally.
- 4.** The maximum running average temperature between 1750 and 2010 was 11.865 for Paris and 9.615 globally.