

Explore Weather Trends

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Outline

What tools did you use for each step?

- SQL - To extract the data into csv file.
- Sheets - To analyze and visualize the data

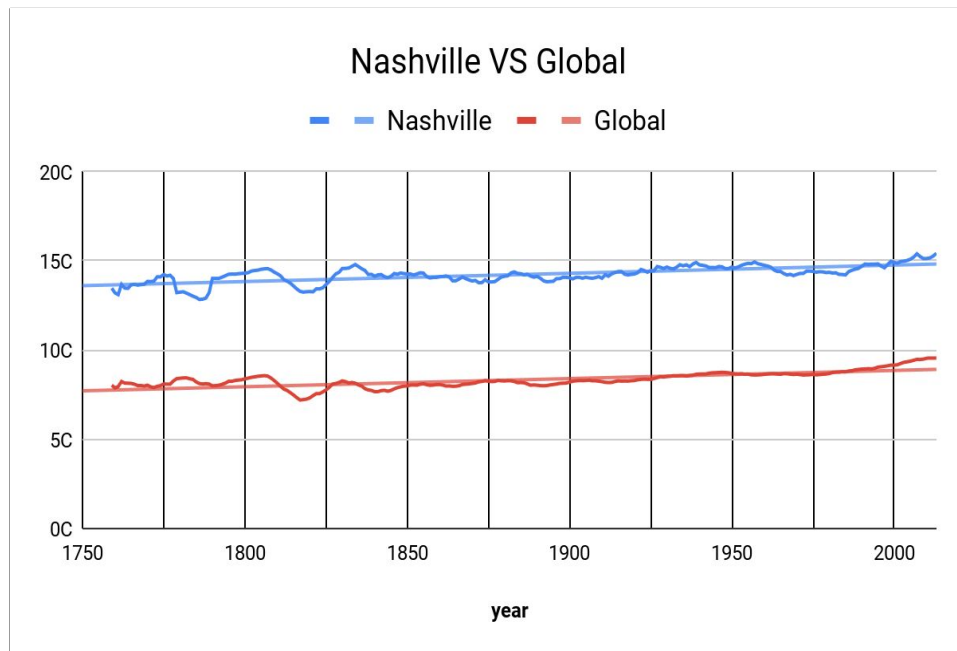
How did you calculate the moving average?

I used a google sheets function (`=AVERAGE()`) to get the average temp of ten years.

What were your key considerations when deciding how to visualize the trends?

- The first thing I considered was the type of chart I was going to use base of my data and what I am trying to analyze.
- Then I made sure I only plotted the necessary columns (Year, city_temp_MA, global_temp_MA)
- Last but not least I decide on color and good title and legends for my chart.

Observation



- Nashville has been consistently hotter than the rest of the world by 5.6 celsius on average.
- The changes in temperature in Nashville have been consistent with those from around the world.
- The overall trend look like the world is getting hotter. The trend seems to be consistent on average for the last few hundred years.

SQL Query

```
SELECT c.year, c.city, c.avg_temp, g.avg_temp as global_temp  
FROM city_data c  
Inner JOIN global_data g  
ON c.year = g.year  
WHERE city = 'Nashville' and c.avg_temp IS NOT NULL
```