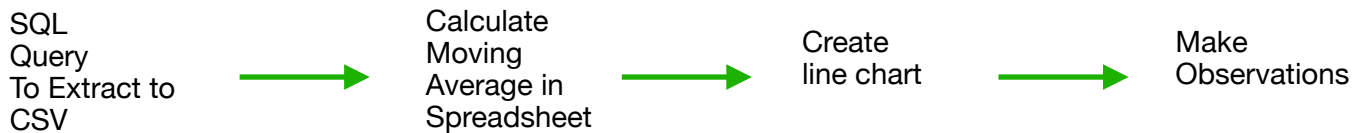


Udacity Data Analyst : Project 1

Explore Weather Trends

Steps



Step 1: SQL Query to Extract to CSV

I used SQL query to join global_data and city_data to get London, UK and global temperature data. And then I exported them to a single CSV file.

Input		HISTORY ▾	MENU ▾
SCHEMA	↻	<pre>1 SELECT c.year, c.avg_temp AS london, 2 g.avg_temp AS global 3 FROM city_data AS c 4 JOIN global_data AS g 5 ON c.year = g.year 6 WHERE c.city = 'London' AND c.country = 'United Kingdom';</pre>	
year			
city			
country			
avg_temp			
city_list	▼	Success!	EVALUATE

Step 2: Calculate Moving Average

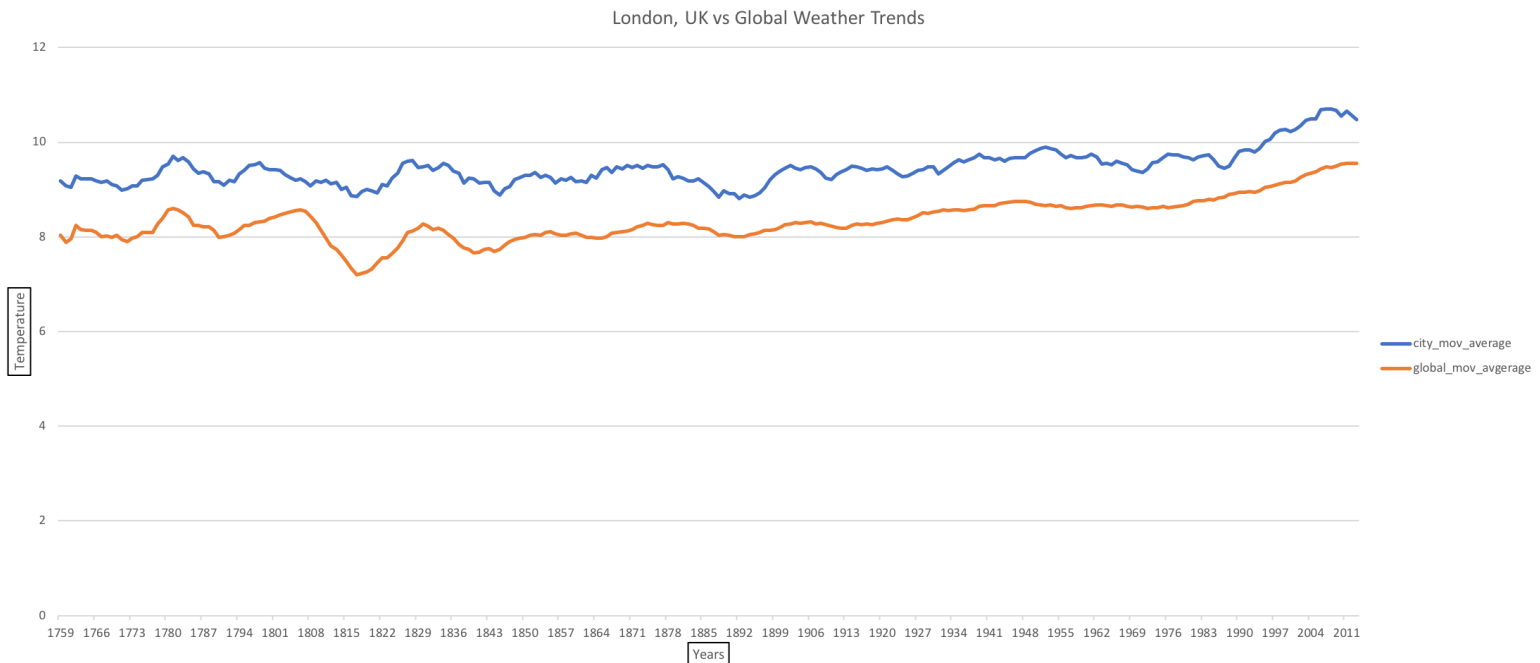
I calculated 10 year moving average using the AVERAGE() function in Microsoft Excel, of London, UK and global temperature data into city_mov_average and global_mov_average columns respectively.

C11

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Step 3: Create line chart

I created line chart in Microsoft Excel.



Step 4: Observations

1. It can be observed that the temperature in London as well as the global temperature are both on the rise. This could be due to global warming.
2. Both of the city_mov_average and global_mov_average are following the same trends and are very much related.
3. We can see that there is not much difference in London and global temperature. The difference is around 1.
4. There was a major global temperature drop in the year 1818.