

Weather trends

Question answered

1. what tools did you use for each step?(Python,SQL,Excel,etc)?

SQL Query to extract data from database:

```
SELECT * FROM global_data;  
SELECT city FROM city_list WHERE county = 'India';  
SELECT year, avg_temp FROM city_data WHERE country = 'India' and city = 'Delhi';
```

Used various excel formula for analysis.

2. How did you calculate the moving average?

Using = average(cell2:cell8)for 7-day average and Using = average(cell2:cell8)for 10-day.

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

That year is plotted on the x-axis and temperature on y-axis.

The moving average is plotted to better visualize the trend in temperature.

Visualization

Chart1-temperature trends: global vs delhi (7-day MA)

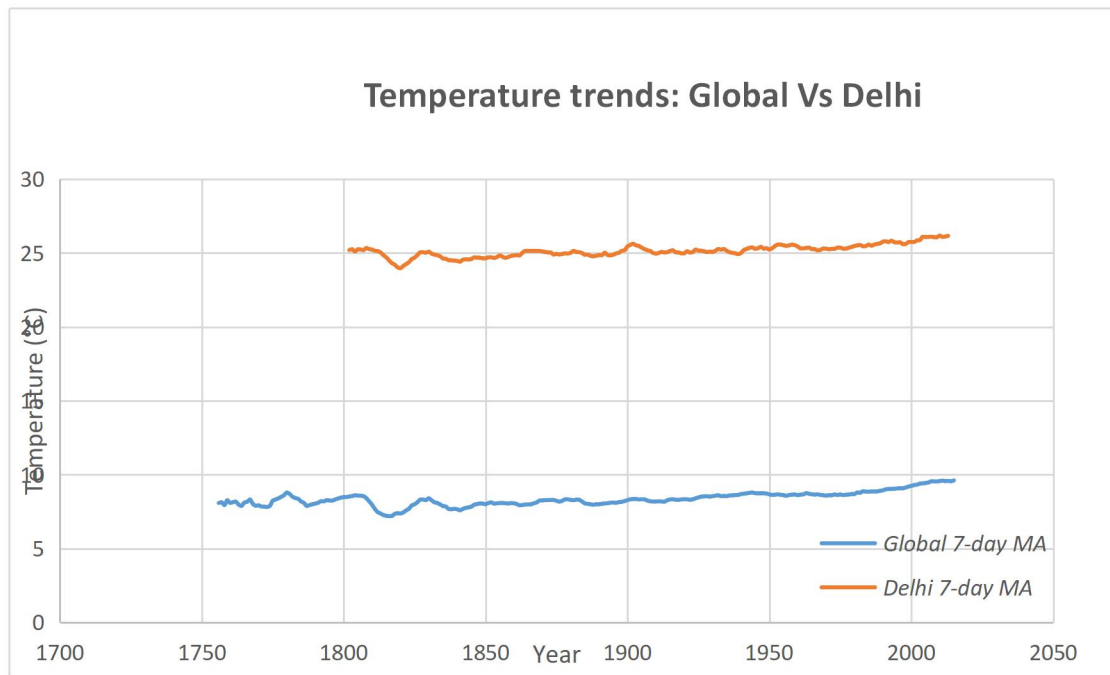
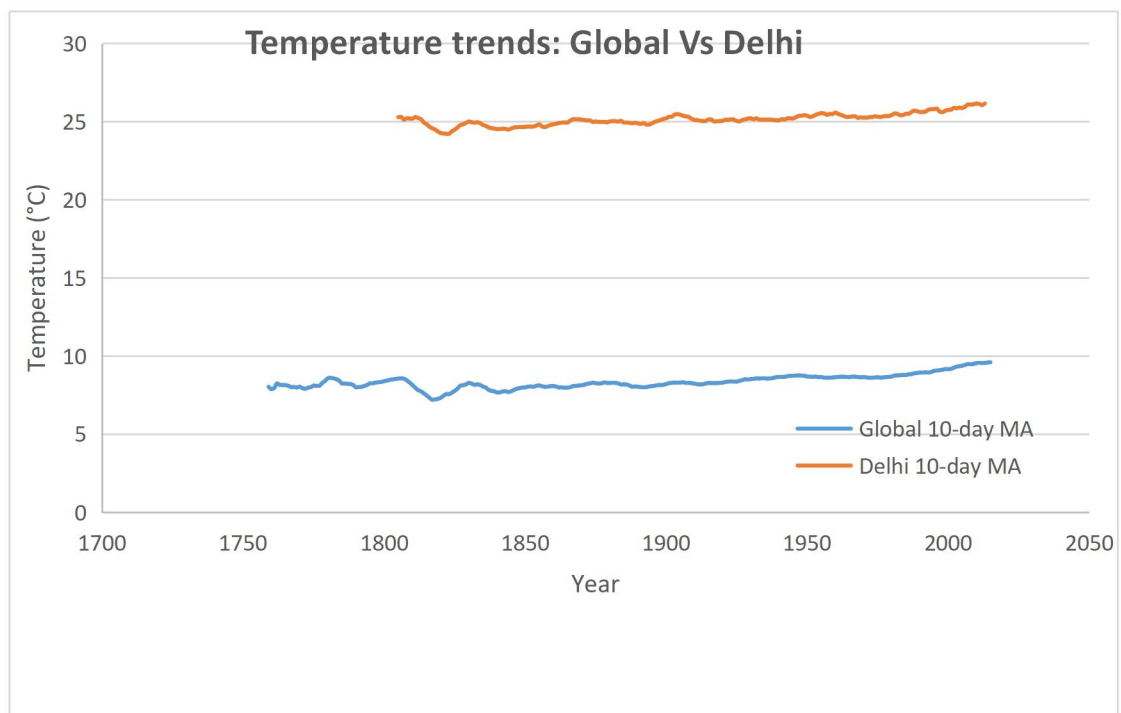


Chart2-temperature trends:global vs delhi(10-days MA)



OBSERVATIONS:

1. Delhi has higher Temperature compared to the global average temperature.
2. The lowest temperature for global(7.3 deg C) around 1820. And for delhi (26 deg C) around 1820.

3. Delhi temperature is consistent in interval year 1867to 1984.
4. The temperature for all categories have increasing marginally in last 200 year.