Exploring Weather Trends   Abdulaziz Alabbdullatif

Steps:

- **To check if my city existed in the list:**

SELECT * FROM city_list WHERE country='Saudi Arabia';

I noticed that Jubail industrial city is not in the list (closest city would be Riyadh)

- **To get Riyadh data from the table:**

SELECT * FROM city_data WHERE country='Saudi Arabia' AND city='Riyadh';

- **To get global average temperatures**

SELECT * FROM global_data;

Download both files

- **Rename the file**

results_riyadh.xlsx
result_glb.xlsx
Noticed that Riyadh data start from 1843 and there are two year missing (1846 and 1847)

- **To calculate the moving average, the fallowing formula been used I excel:**

=AVERAGE(D2:D8)

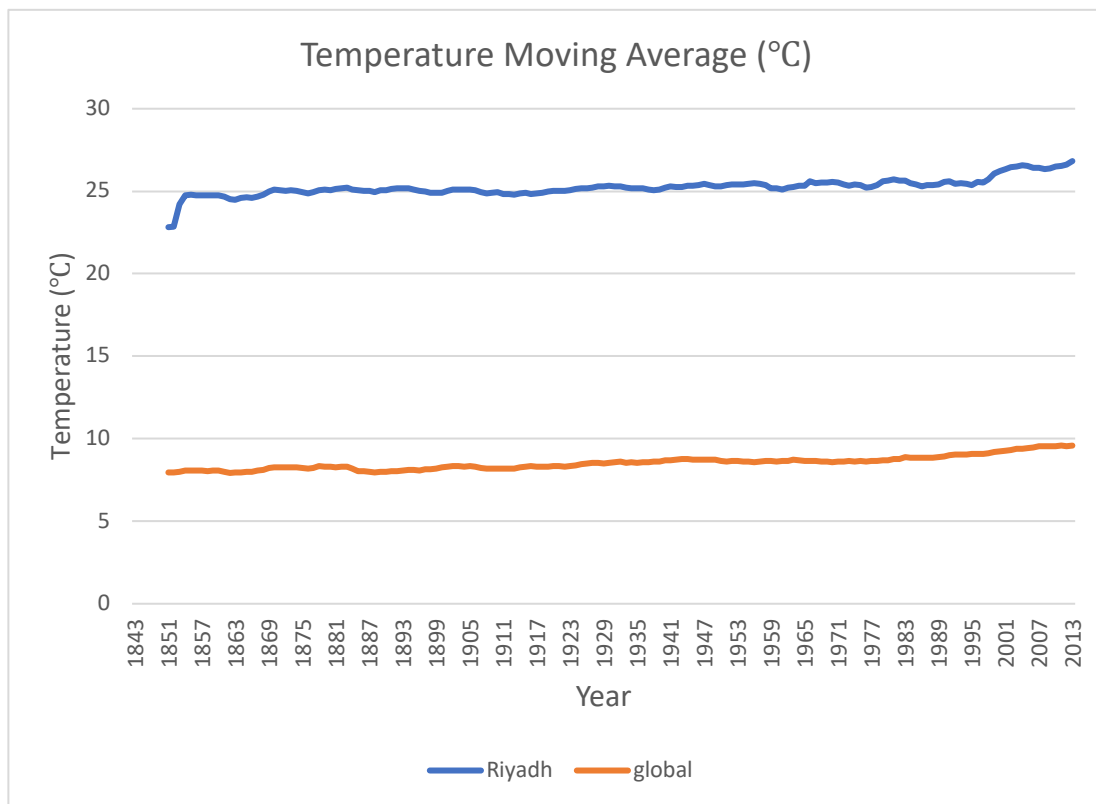- **By using vlookup formula the average temperature been moved to the Riyadh sheet**

=VLOOKUP(A2,[results_glb.xlsx]results!$A$1:$B$267,2,0)

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- **Using 2D line graph to show the fallowing graph:**

Temperature Moving Average (°C)

Observations:

- Riyadh city is hotter than global average temperature.
- Riyadh temperature moving average shows that during the early years the temperature was around 25°C
- While global temperature show consistent increment, the Riyadh temperature show the increment during the last 20 years
- Riyadh Temperature and Global temperature both are showing that the world is getting hotter