Data analyst

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Project 1: Explore Weather Trends

Tools :

1. SQL : Use the SQL Workspace to extract data from the temperatures database

2. Excel : Use to calculate and plot moving average for Riyadh and global temperatures .

Extraction data from the temperatures database :

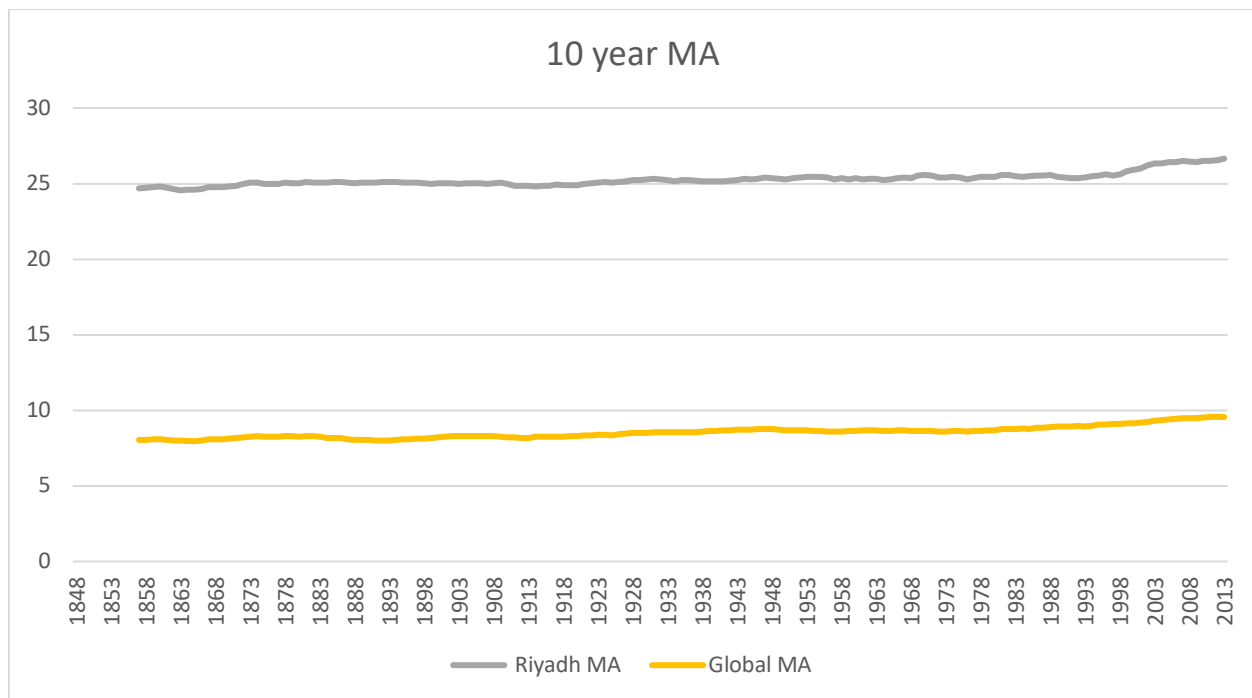1. Extract global data :

   SELECT * FROM global_data

2. Extract city data :

   SELECT * FROM city_data
   WHERE city = 'Riyadh'

Moving average (MA) :

1. Use 10 year MA.
2. use plot the moving average to smooth out the lines,

   making trends more observable.

3. Use the formula **=AVERAGE(D2:D11) , = AVERAGE(E2:E11)** in Excel to see the value in 10 years.

Line chart :

Observations :

1. As we can see from the line chart for 10 years MA that Riyadh temperatures is between 24 °C and 26°C and global temperatures is between 7 °C and 9°C.

2. Riyadh is hotter on average compared to the global average.

3. Both Riyadh and global temperatures become hotter over time.

4. To compared between Riyadh and global average we can observation that there are very clear different in temperature that global temperature over the 10 years MA is cooler than Riyadh with 7 degrees Celsius difference.