Outline

Tools used:

1- **SQL** for extract the data from database
Queries used:

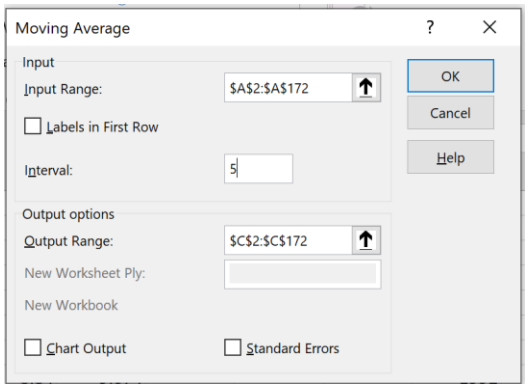
- select year, avg_temp
  from city_data
  where city='Riyadh'
- select year, avg_temp
  from global_data

2- **Excel** for calculating moving average

Calculating the moving average:

Calculating the moving average by **data analysis**

- **Global average**
  input range (average temp)
  interval (5)
  output (global average)

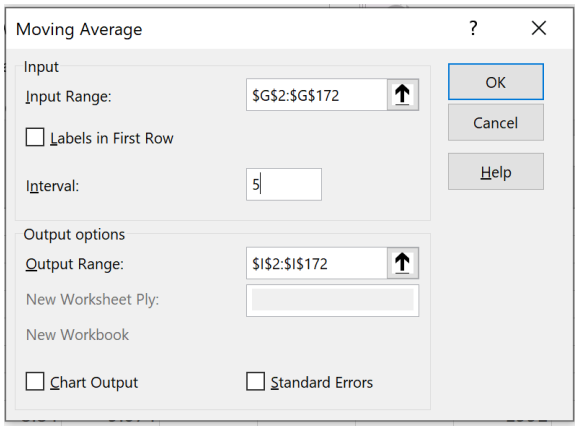


- **Riyadh average**

  input range (average temp)

  interval (5)

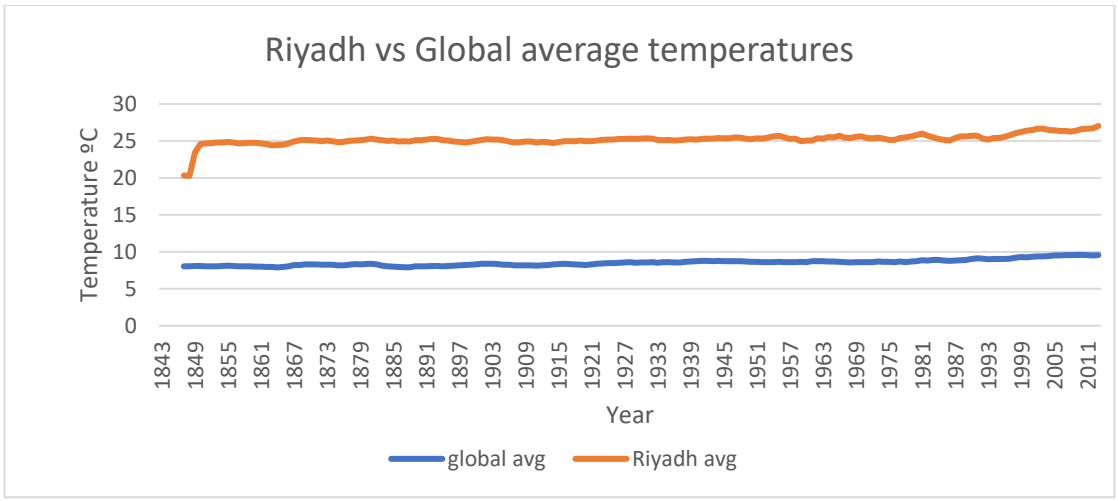
  output (Riyadh average)

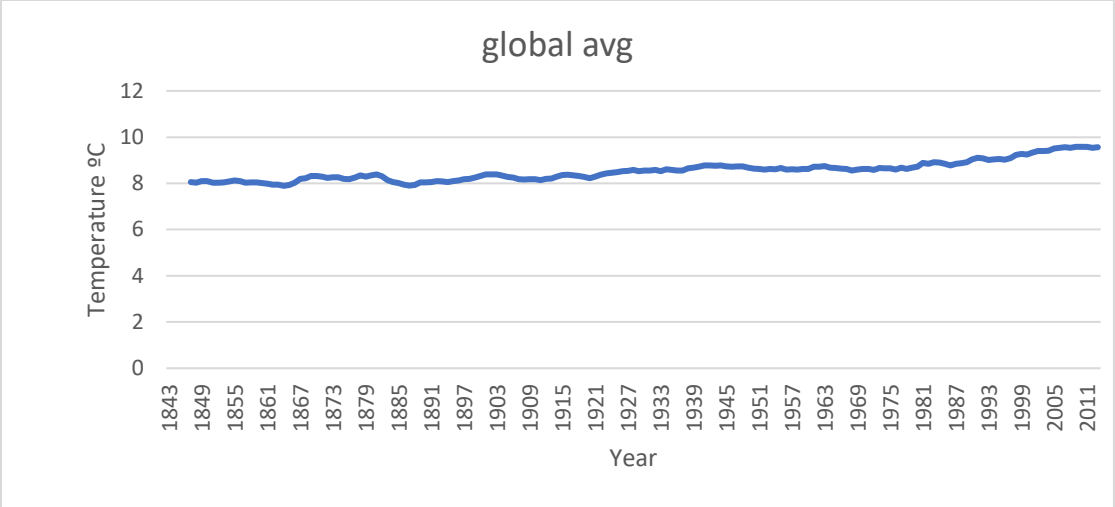


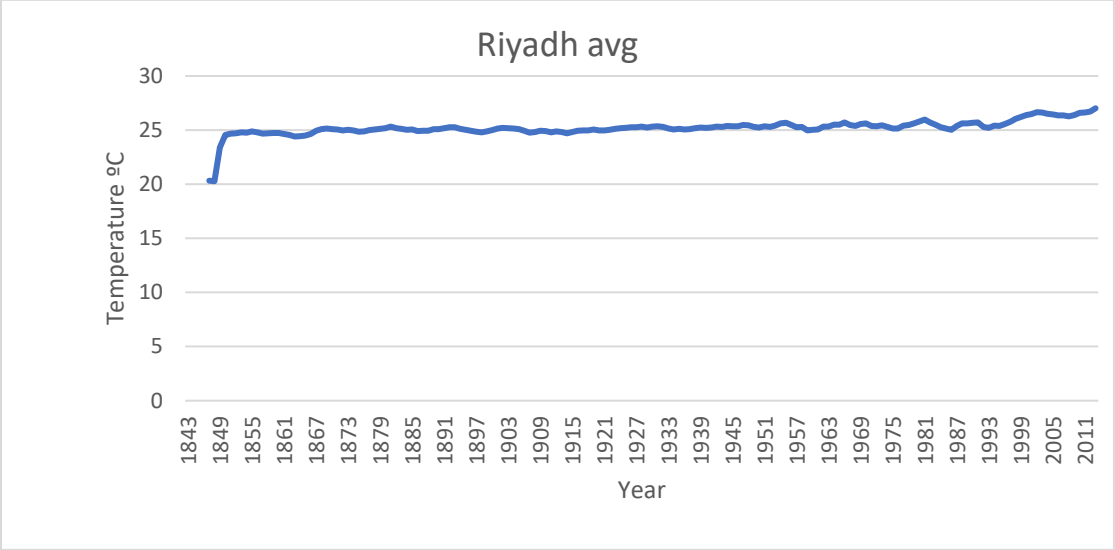
key considerations when deciding how to visualize the trends:

- Years
- Temperature
- Global average temp
- Riyadh average temp

Line chart







Four observations about the similarities and/or differences in the trends:

1- Global average temp is increasing over the years
2- Riyadh average temp is increasing over the years
3- Global weather is cold
4- Riyadh weather is moderate to hot
5- Riyadh weather is hotter compared to global weather
6- Riyadh weather is a little variable but tends to be hotter over the years
7- Global weather is fairly constant but tends to be mild over the years