First, I extracted the data of what I will use to solve the project using these SQL queries
to extract all global data
select * from global_data ;
to check my nearest city
select * from city_list ;
to have the avg temp in Riyadh City.
select avg_temp from city_list
where city = 'Riyadh' ;
Then I dragged the tables of the data in one excel sheet to make the moving average and the line graph . I calculated the moving average by taking the average of each 7 years in row as the preparation example before the project and before that I made some clean up to make sure to match the years between my nearest city (Riyadh) temperature and the global temperature. Then I made the line graph as you can see which contains the 7 years moving average temperature in Riyadh city and the 7 years moving average of the global temperature. After that I started making the observations as require in the project and here is some of it:

I noticed from the graph that from the year of 1848 till 1848 in Riyadh the temp avg is increasing by small amount alike with the global temp avg but Riyadh temp still hotter than the global average temp which means, that from 1863 to 1943 the temp average is stable in both Riyadh temp and the global temp. 1995 the temp in Riyadh again is increasing compare to the global temp. Moreover, Global increased over the years around 1.63degrees while Riyadh 2.99 degrees. Answering some questions that were highlighted in the project:

- Is your city hotter or cooler on average compared to the global average? Has the difference been consistent over time?
  yes my city is hotter, no its not consistent.
- "How do the changes in your city's temperatures over time compare to the changes in the global average?" I see that my city temp is increased by 2.99 degrees compare to the global temp which increased only by 1.63 degrees.
- What does the overall trend look like? Is the world getting hotter or cooler? Has the trend been consistent over the last few hundred years?
  I believe that the world is getting hotter, Its not consistent and its increasing through the years. The amount of increasing might be little over the years but in the future it's considered as huge amount.

My key considerations while deciding to visualize the trends are to look after whether the temperature is increasing or decreasing and by what amount. In what year it's started getting hotter.