Data Analyst Nanodegree Program
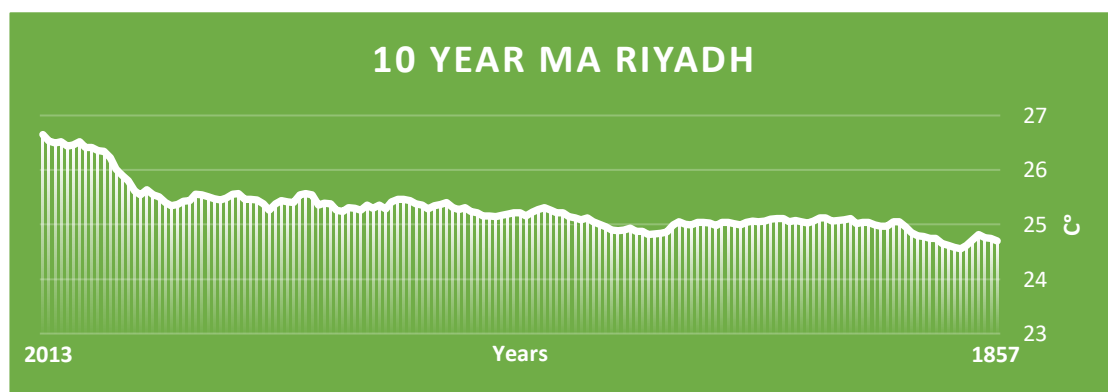
First Project

Outline:

First I used SQL queries to :

1- extract all cities to see if my city exists " SELECT * FROM city_list ".

2- extract average global temperatures by year " SELECT * FROM global_data ".

3- extract average temperatures for Riyadh city by year

" SELECT * FROM city_data WHERE city='Riyadh' ".

Second I used Microsoft office excel to :

1-I imported the data from the text/CSV file to the excel.

2- I calculated a ten years moving average using the "AVERAGE()" function.

3- then I created two line charts (10 year MA Global,10 year MA Riyadh).

line charts:

Observations:

- Riyadh's temperature on average (25.21° c) is hotter than the Global temperature on average (8.53° c). and the difference has been consistent over time (the difference has been always about 17° c).
- The global temperature has been getting hotter.
- Also Riyadh's temperature has been getting hotter.
- Riyadh's temperature has been increasing as well as the global temperature , both of them has been almost increasing in the same way.
- The increase in Riyadh's temperature over the period from 1992 till 2013 has been higher than the global temperature over the same period (Riyadh's temperature increased 3.41° c and the global temperature increased 0.77° c).