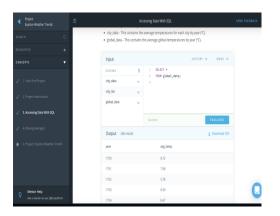
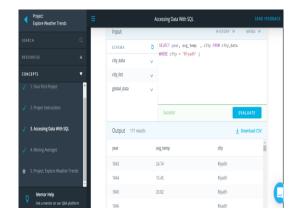
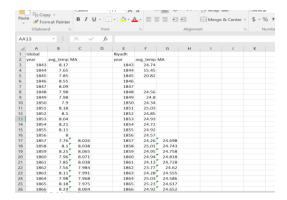
## Explore Weather Trends Project

PRESENTED BY:
DALAL SAAD ALARIFI

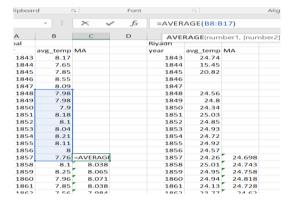




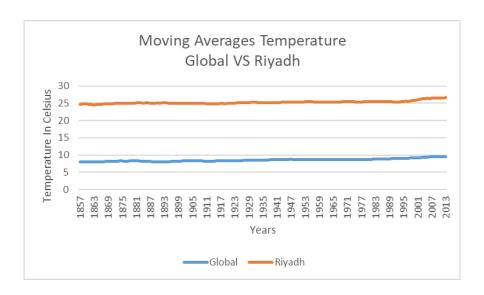
Firstly, I extract both Global and Riyadh data's from the database using SQL.



Secondly, Excel spreadsheet was used.

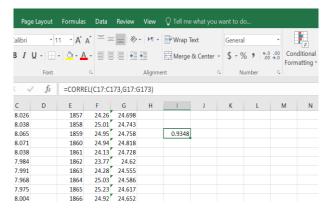


In addition, Moving Averages are calculated per 10 years period, as analyst I observed 10 years is the perfect period to calculate a moving average, due to every 10 years a new decade begin. Decade is a long period that many changes can happens to the climate.



## Report:

Starting from 1857 to end in 2013 moving averages where calculated. Both Global and Riyadh's temperature were steady until the recent years Riyadh's climate start to change as in 2013 it hits it peak, the temperature was 26.65 °C. Riyadh 26.65 °C temperature considered the hottest in around 60 years. Besides, there is a huge difference between Global moving averages and Riyadh moving averages, Global cites is cooler on average. The world is getting hotter nowadays; because of global warming which considered a big problem facing the world in the current years. Finally, overall all the results reflected shows that 2013 is the hottest for both Global cities temperatures and Riyadh city temperature.



## **Correlation Coefficient:**

The correlation coefficient of Global temperature and Riyadh temperature was 0.9348, which is in between the range of -1.0 to 1.0 and it considered a strong and positive correlation.

