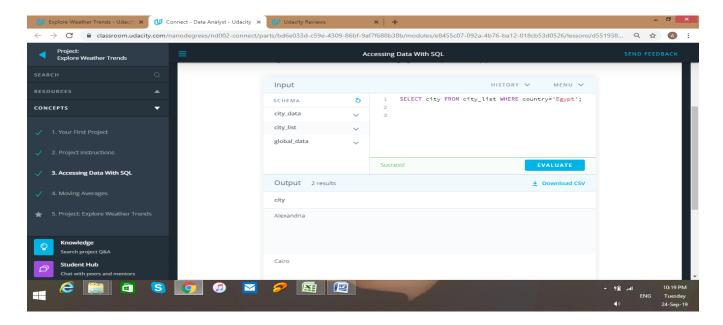
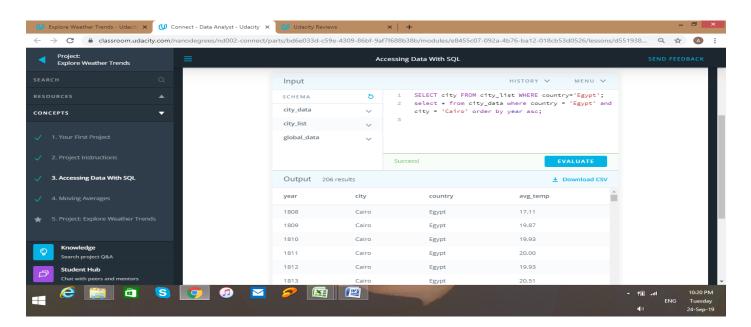
Weather Trends Project

Getting Data from DB:

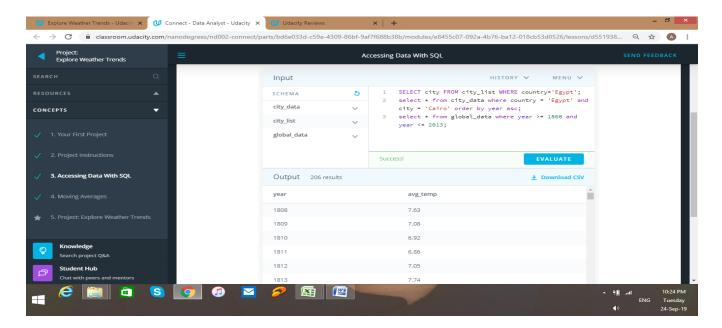
- SQL Query used to find the cities listed in my country "Egypt"
 - SELECT city FROM city_list WHERE country='Egypt';
 - Result only Cairo & Alex are the listed 2 cities in Egypt



- SQL Query used to get temperature for Cairo, Egypt
 - select * from city_data where country = 'Egypt' and city = 'Cairo' order by year asc;
 - o Total of 206 temp. record in DB (from 1808 till 2013)

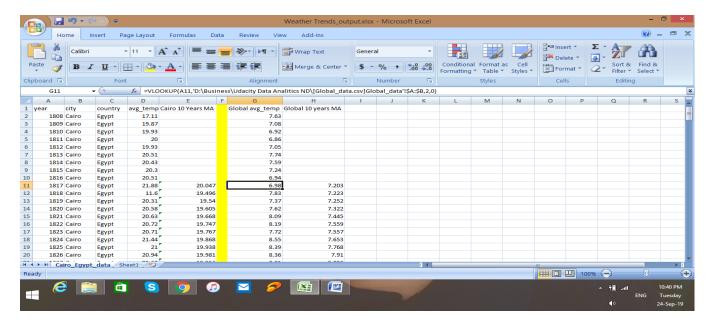


- SQL Query used to get global temperature in same period of time
 - select * from global_data where year >= 1808 and year <= 2013;

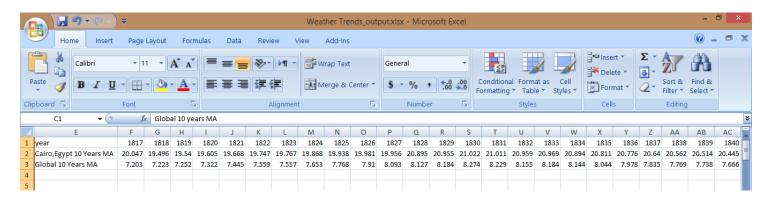


Data Processing Using Excel:

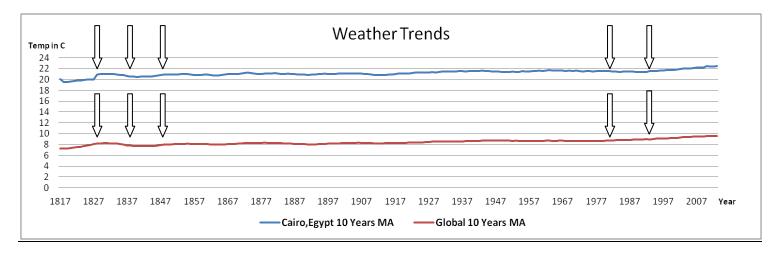
- Cairo Temperature data was saved to excel file and moving average was calculated over 10 years
- Vlookup excel function used to get the global temperature record for the same year and moving average was calculated over 10 years.



• The calculated 10 years moving average for both Cairo & global are then used copied transposed to other sheet to be able to generate line Chart



Line Chart:



Observations:

- 1. Cairo Temperature vary around 21C while global vary around 8.5C
- 2. Both of Global and Cairo records have around 2C difference between Max and Min Temperature Recorded (Cairo 20-22 & Global 7.9-9.9)
- **3.** Both witness Temp. Increase around year 1827 & started to decrease again around year 1837 then another increase on 1847
- **4.** Between year 1980 & 1995 Cairo trend was decreasing however the global trend was increasing, then both of them started increasing around year 1997
- 5. The overall trends tend to be increasing in temperature comparing year 2013 record to year 1817 record