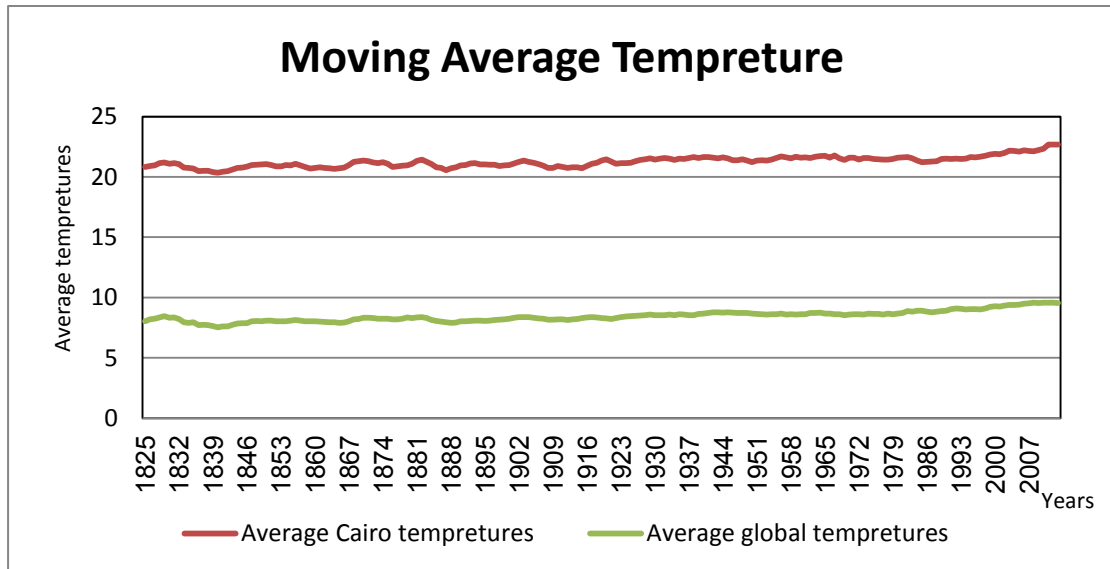


Exploring Weather Trends – Project



Kindly find the below steps:

- 1- Extract data from SQL for City 'Cairo' to get its temperatures and Global Temperatures in the same year by the below Query

```
Select  
CT.Year,  
CT.city,  
CT.country,  
CT.avg_temp as avg_temp_Cairo,  
GD.avg_temp as avg_temp_Global  
from city_data CT  
left join global_data GD  
on CT.year=GD.year  
where CT.city='Cairo'
```

- 2- Copy data in Excel sheet.

- 3- Get moving average of each 5 years of Cairo and Global temperatures as the below screen shot.

year	city	country	avg_temp_cairo	avg_temp_global	moving_avg_temp_cairo	moving_avg_temp_global
1808	Cairo	Egypt	17.11	7.63		
1809	Cairo	Egypt	19.87	7.08		
1810	Cairo	Egypt	19.93	6.92		
1811	Cairo	Egypt	20	6.86		
1812	Cairo	Egypt	19.93	7.05		
1813	Cairo	Egypt	20.51	7.74	19.368	7.108
1814	Cairo	Egypt	20.43	7.59	20.048	7.13
1815	Cairo	Egypt	20.3	7.24	20.16	7.232
1816	Cairo	Egypt	20.51	6.94	20.234	7.296
1817	Cairo	Egypt	21.88	6.98	20.336	7.312
1818	Cairo	Egypt	11.6	7.83	20.726	7.298
1819	Cairo	Egypt	20.31	7.37	18.944	7.316
1820	Cairo	Egypt	20.58	7.62	18.92	7.272
1821	Cairo	Egypt	20.63	8.09	18.976	7.348

- 4- My key consideration to draw the chart is years and Cairo/global average temperatures.
- 5- Draw line chart show differences between years and moving average Cairo/Global temperatures.

My Observation on the temperatures chart at the below:

- 1- The average temperatures of my city "cairo" is hotter than average Global temperatures.
- 2- Cairo average temperatures increases like Global average temperatures increases by the time at last years.
- 3- The world getting hotter & my city also.
- 4- There is suddenly increase from last 35 years.

Regards,

Noha Moubarak Ahmed