**PROJECT ONE: EXPLORING WEATHER TRENDS**

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**STEP 1:** Extracting the data from SQL using the code below:

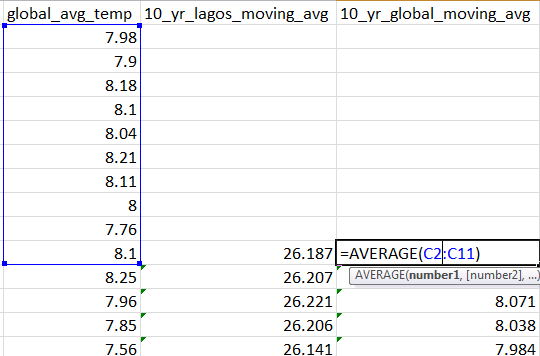
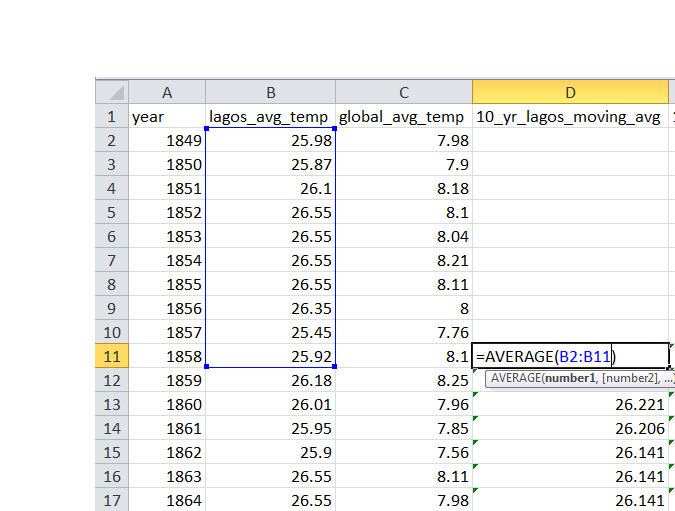
Select city\_data.year, city\_data.avg\_temp AS lagos\_avg\_temp, global\_data.avg\_temp AS global\_avg\_temp

From city\_data Join global\_data on global\_data.year = city\_data.year

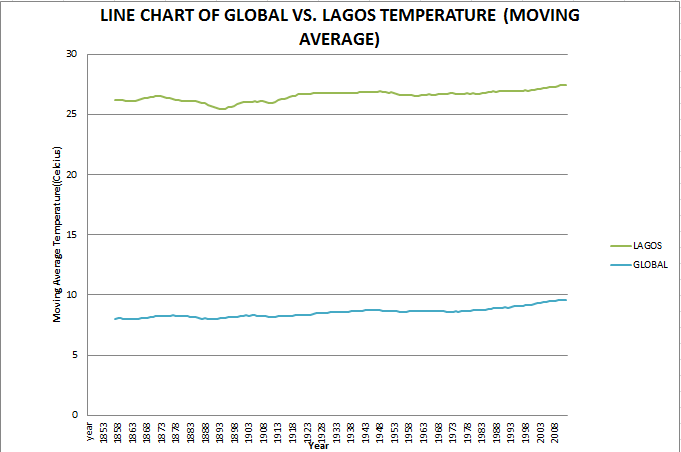
where city\_data.country = 'Nigeria' and city\_data.city = 'Lagos'

I downloaded the csv file.

**STEP 2:** Using Excel, I opened the ccsv file and calculated the mean of my city data (lagos\_avg\_temp) and filled up the missing cells with the mean then calculated the moving average temperature for my city and global average temperature



**STEP 3**:I plotted the 10 year moving average graph of Lagos average temperature and global average temperature as shown below:



**OBSERVATIONS:**

* Lagos average temperature is hotter than global average temperature
* There is steady increase in temperature for both Lagos and global temperature which could be an effect of the global warming
* Lagos experienced its lowest average temperature in 1890 at 24.86˚C
* Between 1886 and 1898, Lagos recorded its lowest average temperatures thus far
* The average temperature for Lagos is 25.98˚C while that of global is 8.55˚C
* The average difference between Lagos temperature and Global temperature is 17.43˚C
* Lagos temperature increased from 25.98˚C in 1849 to 27.36 in 2013 while the Global temperature increased from 7.98˚C in 1849 to 9.61˚C in 2013