# Steps taken

1. Extracting data from the Udacity workspace, using SQL to extract the city level data. I first viewed the city\_list table to find cities in Nigeria using:  
   **SELECT \*  
   FROM city\_list  
   WHERE country LIKE 'Nigeria';**
2. I then have to work with **Lagos** as that is my closest city.
3. Next, I have to bring the global data and the city data corresponding to the year in my city Lagos using the following SQL command:  
   **SELECT   
   cl.\*,   
   gl.\*,  
   cd.avg\_temp AS city\_temp  
   FROM city\_data cd  
   LEFT JOIN city\_list cl  
   ON cd.city = cl.city  
   LEFT JOIN global\_data gl  
   ON gl.year = cd.year   
   WHERE cl.city LIKE 'Lagos';**
4. I then downloaded the CSV, first for the Lagos city and the city\_data, then for the temperature of global with the city data.
5. I opened the CSV in Microsoft Excel, as well as on Google Sheet. But working with Excel, I calculate the ***Moving Averages.***
6. In calculating the Moving Average, I used **=AVERAGE(D2:D15)** formula, and Fill Handle to get the corresponding values downward.
7. The Moving Averages used is 14-year Average.
8. I then plot a line chat using the Moving Averages: I used **14-YEAR MA-GLOBAL** for the global Moving Averages, and **14-YEAR MA-CITY** for the Lagos city Moving Averages.
9. The observations ware noted as below.

# Observations of Global Temperature to Lagos Temperature

* Lagos city is much hotter than the global temperature with the least temperature in Lagos at 25.98 degree and the highest global temperature at 9.61 degree.
* That gives you a different in degree of close to 15 degrees.
* The changes are symmetrical. They increment in temperature fluctuates sparingly.
* The climate is obviously getting hotter
* The temperature increases on the global and Lagos city have been consistent over the last 30 years.