# Project: Explore Weather Trends

## Extract the data from database

I extracting the data by SQL.

I living in Viet Nam, so I find city in Vietnam from city\_list by SQL:

select \*

from city\_list

where country = ‘Vietnam’;

The result is Hanoi. Then I get the average temperatures for Hanoi by SQL:

select year, avg\_temp

from city\_data

where city = ‘Hanoi’;

I downloaded the result as hanoi\_temp.csv.

Extract the global data by SQL:

select \* from global\_data

I downloaded the result as global\_temp.csv.

## Open up the CSV

I open csv by excel and create a line chart by excel

## Create line chart

I create a second column HN\_10\_year\_avg, which is where the moving average field will be stored. Go down to the 1849 and use the AVERAGE() function to calculate the average temp for the first 10 years. Then drag the formula down to the next cell. From there plot the line average. Do the same for data global\_data.

Hanoi average temp 1849-2013

Global average temp 1759-2015

Hanoi and Global average temp 1849-2013

## Observations

* Hanoi has an average temperature higher than the average temperature of the world. Because Hanoi is located in the tropical monsoon climate. So the temperature is high all year round. The average temperature in Hanoi is always about degrees higher than the world average.
* Figure 3 shows the marked difference between the average temperature of Hanoi and the world.
* The temperature has increased markedly since the beginning of the twentieth century, and it has been evident since 1970.
* In short, the temperature in Hanoi and the world is increasing day by day, showing that the earth is warming.