For this project, I needed to look at trends in local temperatures and compare them to world temperatures. I used a query in the SQL Workspace to find my most local city in the dataset (Charlotte, NC) and to extract only the data I needed: the year and the average annual temperature for Charlotte and for the world, as shown in the graph below.

Steps Taken:

* Extracted local and global data from temperatures database using SQL queries:
  + Select year, avg\_temp From city\_data Where city = 'Charlotte'
  + Select year, avg\_temp From global\_data
* Downloaded the extracted data as a CSV file
* Imported the CSV file into Excel and calculated 7-year moving averages by inputting the annual temperatures for the current year and previous six years, all to be averaged in the temperature cell corresponding to each year
* Created the line chart below, comparing local and global temperatures on one graph

Observations

* Charlotte has thigher average temperatures, but that is not surprising given its distance from the poles, its low altitude, and the urban heating effect.
* There is a trend of increasing temperatures for Charlotte since around 1984 that corresponds to the world trend.
* The minimums of the local and global values occurred in different decades, but the maximums for both datasets occur together in 2013.
* There is a decline in temperature for Charlotte around 1960 that lasts more than a decade, and it corresponds to a leveling-out in temperatures for the world.