Exploring Weather Trends - Project Instructions

Summary

In this project, you will analyze local and global temperature data and compare t
where you live to overall global temperature trends.

Instructions

Your goal will be to create a visualization and prepare a write up describing the s
differences between global temperature trends and temperature trends in the c
you live. To do this, you'll follow the steps below:

- **Extract the data** from the database. There's a workspace in the next sectio
database. You'll need to export the temperature data for the world as well
city to where you live. You can find a list of cities and countries in the `city`
interact with the database, you'll need to write a SQL query.
  - Write a SQL query to extract the city level data. Export to CSV.
  - Write a SQL query to extract the global data. Export to CSV.
- **Open up the CSV** in whatever tool you feel most comfortable using. We su
Google sheets, but you are welcome to use another tool, such as Python or
- **Create a line chart** that compares your city's temperatures with the global
sure to plot the *moving average* rather than the yearly averages in order to
making trends more observable (the last concept in the previous lesson go
in a spreadsheet).
- **Make observations** about the similarities and differences between the wor
city's averages, as well as overall trends. Here are some questions to get yo
  - Is your city hotter or cooler on average compared to the global averag
been consistent over time?
  - "How do the changes in your city's temperatures over time compare t
global average?"
  - What does the overall trend look like? Is the world getting hotter or co
been consistent over the last few hundred years?

Submission

Your submission should be a PDF that includes:

- **An outline** of steps taken to prepare the data to be visualized in the chart,
  - What tools did you use for each step? (Python, SQL, Excel, etc)
  - How did you calculate the moving average?
  - What were your key considerations when deciding how to visualize th
- **Line chart** with local and global temperature trends
- At least **four observations** about the similarities and/or differences in the t

Rubric

A Udacity reviewer will assess your project based on the criteria in the project ru
a guide while you complete the project, then give yourself a quick self-assessme