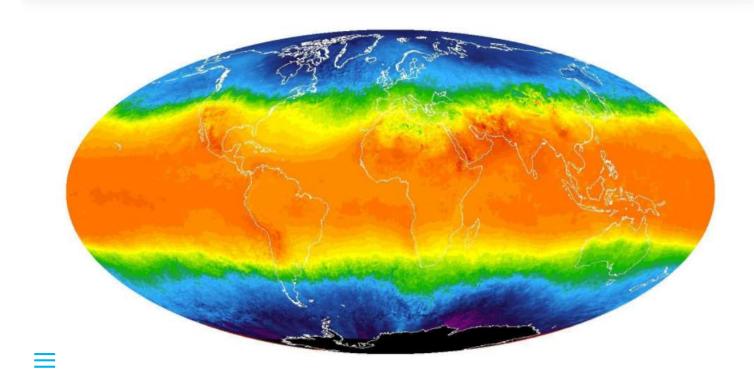
Project Instructions



Exploring Weather Trends - Project Instructions

Summary

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

Instructions

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

- Extract the data from the database. There's a workspace in the next section that is connected to a database. You'll need to export the temperature data for the world as well as for the closest big city to where you live. You can find a list of cities and countries in the city_list table. To 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 suggest using Excel or Google sheets, but you are welcome to use another tool, such as Python or R.

Project Instructions

in a spreadsheet).

- **Make observations** about the similarities and differences between the world averages and your city's averages, as well as overall trends. Here are some questions to get you started.
 - Is your city hotter or cooler on average compared to the global average? Has the difference been consistent over time?
 - "How do the changes in your city's temperatures over time compare to the changes in the global average?"
 - What does the overall trend look like? Is the world getting hotter or cooler? Has the trend 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, such as:
 - 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 the trends?
- **Line chart** with local and global temperature trends
- At least **four observations** about the similarities and/or differences in the trends

Rubric

A Udacity reviewer will assess your project based on the criteria in the project rubric. Use the rubric as a guide while you complete the project, then give yourself a quick self-assessment before you submit it.

NEXT