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Explore Weather Trends Project

Project Steps Taken

• 3 SQL queries were conducted to gather all relevant information out of the database. The first SQL query was "SELECT * FROM city_list WHERE name LIKE 'Sacramento'; ". This query was to confirm that the closet biggest city to my location had data stored in the city data table. The second query was "SELECT * FROM city_data WHERE name = 'Sacramento'; ". The third query was "SELECT * FROM global_data; ".

• The data was transferred to the program "Numbers" where all the information was formatted into a new table. The new table contained the columns; year, Sac_Temp, Global_temp, Sac_5yr_MA, and Global_5yr_MA.

• 5-year moving average calculations pertaining to the yearly Sacramento and Global temperatures were created to utilize in making a smooth line chart comparing the yearly temperatures between Sacramento and global. To calculate the 5-year moving averages, the average function in the Numbers program was used.

Observations

• The first most noticeable observation made from the data was Sacramento's significantly higher average temperature relative to the average global temperature.

• The second most noticeable observation is Sacramento's yearly temperature has more significant fluctuations year to year relative to the average global temperature.

• The third observation is that both the Sacramento and global average temperatures have an increasing trend over time.

• The fourth observation is that the temperature changes of Sacramento and the global average were more erratic between the years 1849-1920 compared to 1920-2015.

Yearly Average Temperature

Sac_5yr_MA —— Global_5yr_MA ——