**# Surfs\_Up:** Analyzing weather data in jupyter notebook and making an app

**## Background**

Climate Analysis and Data Exploration of Climate Database Using Python (Pandas, Matplotlib), SQLAlchemy (ORM Queries) and Flask

**## Overview of analysis**

The analysis was designed to assess the temperature statistics for June and December to assist in the decision to establish a surf shop assess its’ sustainability year around. We arrive at acquiring out temperature data by running two separate queries, one for June and the other December. Upon completion of our queries we store the temperatures in a list then convert them to a dataframe. Statistical analysis was accomplished using the .describe() method. Here is what we found:

**## Results**

-- In June we had a total count of 1700, mean of 74.9, min of 64.0 and max of 85.0

--In December we had a total count of 1517, mean of 71.0, min of 56.0 and max of 83.0. -- Standard deviation is 3.25 in June and 3.75 -- making a .5 difference in the two different seasons

**Summary**

From our data we can tell what our temperatures are but since there are other attributes to the weather such as precipitation it shows that we can run additional queries to let us know whether or not people can come and visit the shop. If we are able to gain more data for the area we can run even more queries! From there we can decide how we would like to build the shop and what areas would make this a more prominent location for visitors to come.

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