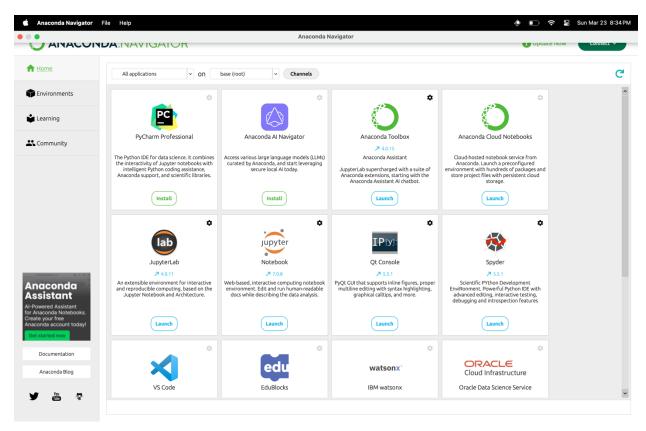
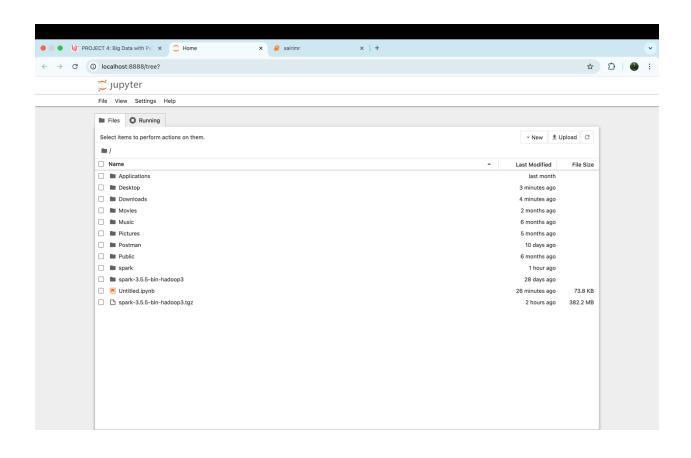
PROJECT 4: Big Data with PySpark using Anaconda & Jupyter notebook

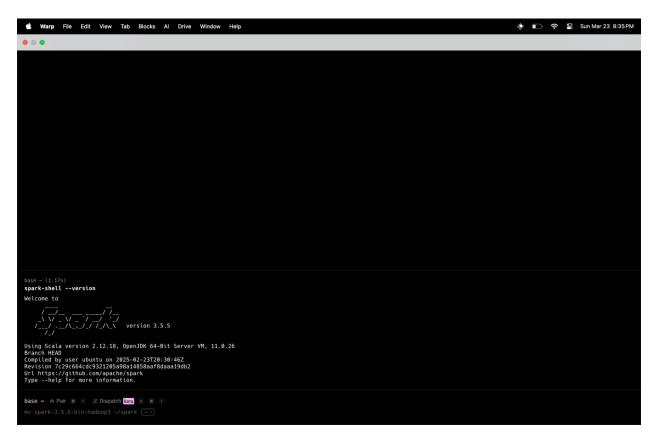
Muralidhar Sairi

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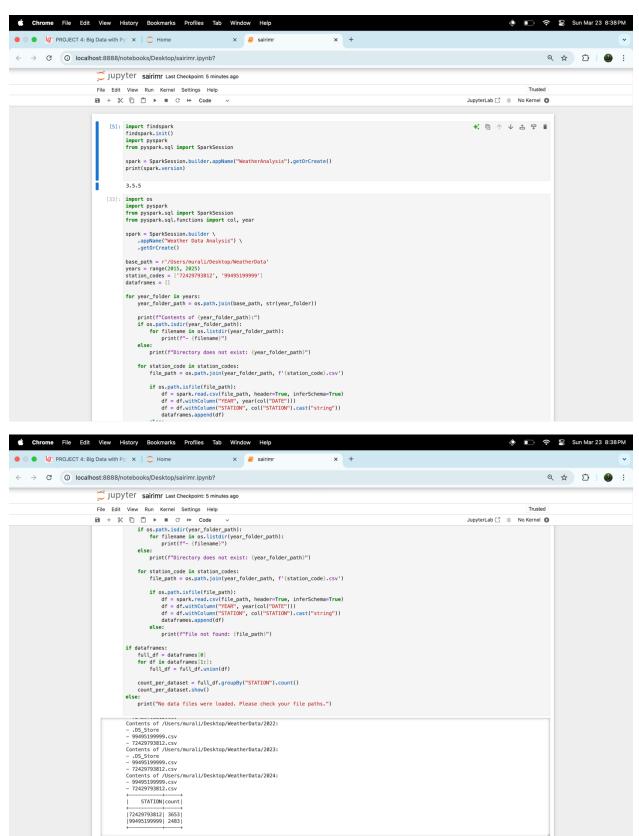
Download Anaconda Python, install PySpark, and launch Jupyter Notebook:



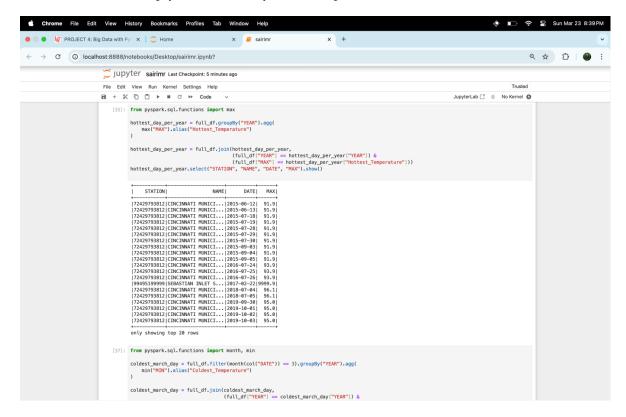




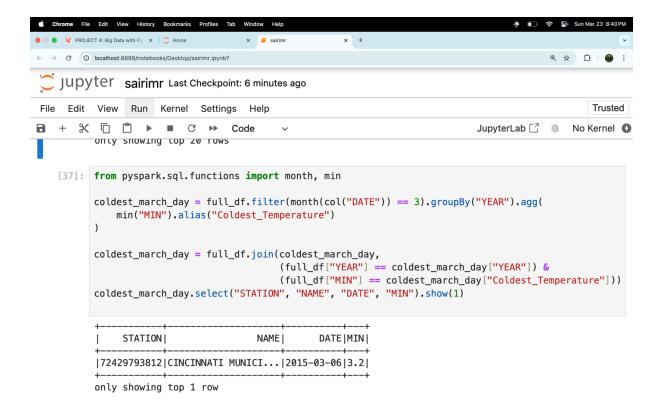
Load the CSV files and display the count of each dataset:



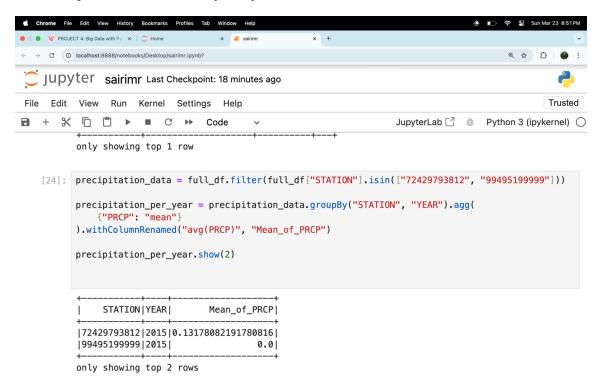
Find the hottest day (column MAX) for each year:



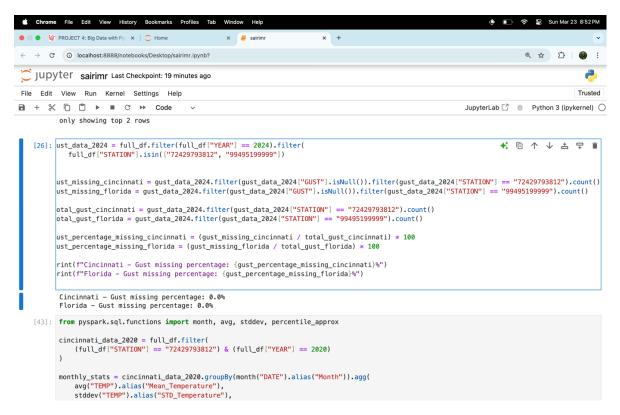
Find the coldest day (column MIN) for the month of March across all years (2015-2024):



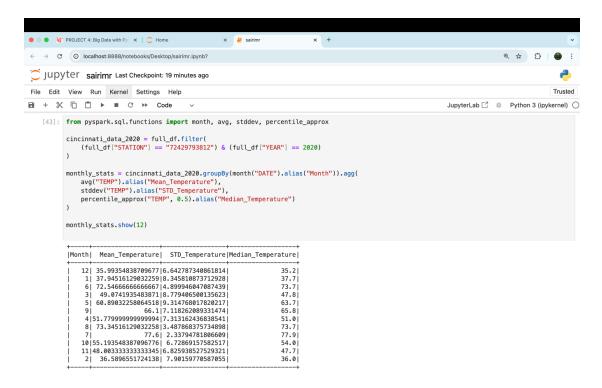
Find the year with the most precipitation for Cincinnati and Florida:



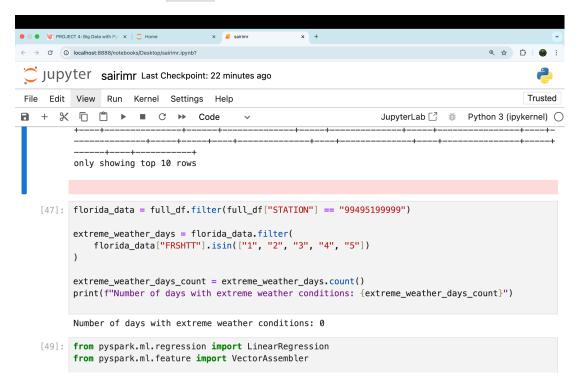
Count the percentage of missing values for wind gust (column GUST) for Cincinnati and Florida in the year 2024:



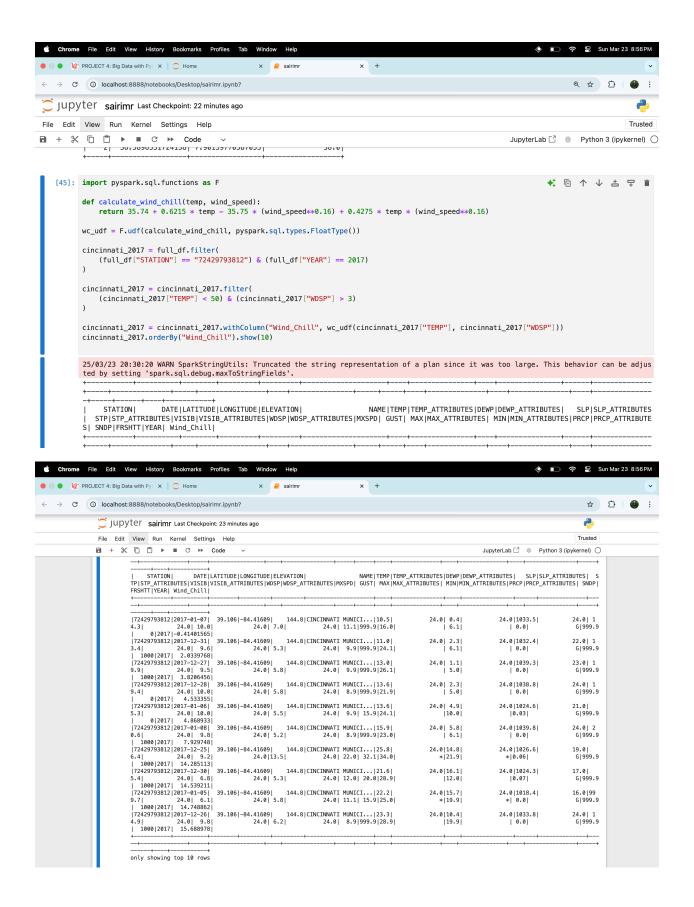
Find the mean, median, mode, and standard deviation of the temperature (column TEMP) for Cincinnati in each month for the year 2020:



Investigate how many days had extreme weather conditions for Florida (fog, rain, snow, etc.) using the FRSHTT column:



Find the top 10 days with the lowest Wind Chill for Cincinnati in 2017:



Predict the maximum Temperature for Cincinnati for November and December 2024, based on the previous 2 years of weather data:

