SQLite is a self-contained database. It is also serverless, it requires zero-configuration, and it has transactional SQL database engine. The code for SQLite is available for the public at no cost and it can be used for any purpose. SQLite is an embedded SQL database engine. SQLite does not have a separate server process, which allows to read and writes directly to ordinary disk files.

Hawaii.sqlite dataset was imported to python and an engine was crated and base was auto-mapped. The tables were inspected. Two tables were found in this database. Metadata and columns of the two tables were inspected using inspector.

There were total 19550 dates in the measurement table. The last date was 2017-08-23 and the first date was 2010-01-01.

Using the date and time function of Python, time delta, the last year from the most recent date was calculated. In addition, the first 12 months of precipitation from measurement data was flittered using sessions.query method. Retrieved data was saved to data frame before it was plotted using matlptlib. Summary statistics was made for the precipitation dataset.

Stations table was also queried for the number of available stations in the dataset. The first station and the most active stations were identified. Time of observations were filtered for the first 12 months.

Using the two tables, highest, lowers, and average temperature was calculated for the most active stations during the first 12 months. Stations with highest recorded observations of temperature was plotted using matplotlib. Trip average temperature was also calculated. Weather app was created using the generated code.

This analysis is limited to the provided Sqlite database and data is not current to relate to the current weather conations in Hawaii.