



Aloha Hawaii

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CIS 550 - Database

PROJECT DESCRIPTION

The website that will be developed in this project aims to provide users with as much as information they would need to travel around Hawaii, in aspects of air travel, housing, eating, and sightseeing. The information will be separated and organized by various islands within Hawaii. Users can select the destination or island they plan to visit and obtain information about that specific location.

DATASET DESCRIPTION

Inside Airbnb (<http://insideairbnb.com/>)

Description: Detailed Airbnb Listings data for Hawaii, contains information such as host name, location/neighborhood, property type, number of accommodates etc.

Yelp (<https://www.yelp.com/dataset/>)

Description: Subsets of Yelp's local business and crowd-sourced reviews. It also contains relevant Covid19 information.

OpenFlights (<https://openflights.org/data.html>)

Description: OpenFlights/Airline Route Mapper Route Database contains 67663 routes between 3321 airports on 548 airlines spanning the globe. Each entry contains information such as airline, source airport, destination airport and number of stops.

Hawaii Open Data (<https://opendata.hawaii.gov/>)

Description: Includes information about Hawaii such as cultures, unemployment rate, laws etc. This dataset will be optional for users who want to have a deeper understanding of Hawaii life.

DATA QUERIES

1. Return the detailed Airbnb description, housing pictures and 3 most recent reviews of 5 best fit properties ordered by the number of reviews the listing has received. Users specify their needs such as location, number of bedrooms/bathrooms, stay period.
2. Return average Airbnb price per zip code (for displaying on the Hawaii map)
3. Users specify the source airport and destination airport and return all available airlines.
4. User enter attractions such as "beach", "shopping", etc., return top 3 related attractions by nearest distance and by highest reviews
5. For the given zip code user entered, return local Covid-19 level according to Yelp dataset (i.e. Covid 19 patients)
6. Return the restaurants' parking availability for users within some certain distance from the user's location.