Katie Kulp

Data Analyst Portfolio 2023

Projects and Relevant Skills

> 1. Preparation for Influenza Season

- Excel - Tableau
- Effective Communication of Results

2. Transition of RockBuster to Digital Platform

- SQL
- Database Dictionary
- Powerpoint Presentation

3. Optimizing Customer Segmentation for Instacart

- Python
- Jupyter Notebooks
- Python Visualizations

Project 1: Preparation for Influenza Season

Project Overview:

Working with a medical staffing agency that provides temporary workers to clinics and hospitals.

The analysis involved the examination of historic influenza trends to anticipate where, when, and how many staff will be needed to minimize deaths attributable to the flu.





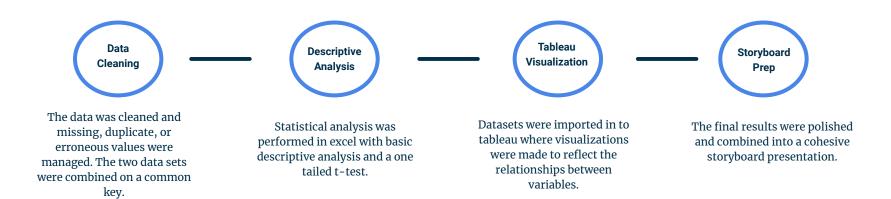


Data:

The data came from US Census Bureau and the CDC.

Two data sets were cleaned and combined.

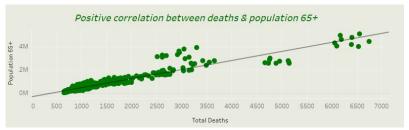
Project 1: Preparation for Influenza Season



Summary: With the intent of determining when and where additional assistance for the upcoming flu season, it was found the most at risk are elderly populations (ages 65+) and those in populous states, especially during the winter months







Link to tableau presentation: https://public.tableau.com/app/profile/katie.kulp/viz/A2_storyboard/Story1

Project 2: Transition of RockBuster to Digital Platform

Project Overview:

The project was working with a movie rental store that was looking to transition to streaming platform.

They wanted to target marketing by understanding which movies, customers groups, and locations contributed most to revenue.

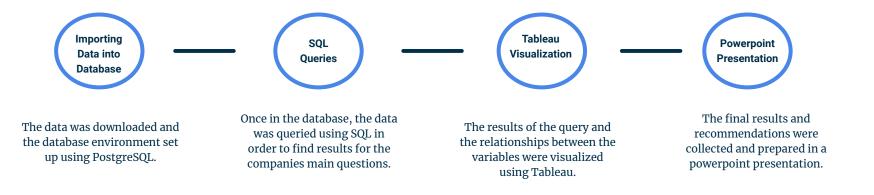




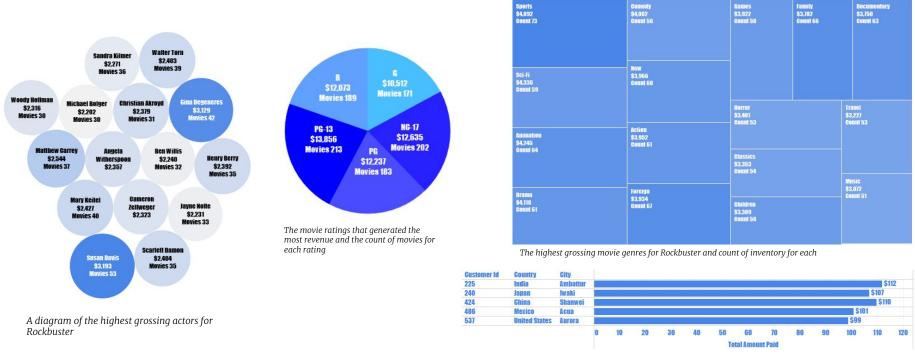
Data:

The data from Rockbuster consisted of several folders with information on inventory, customers, payments and was loaded into PostgreSQL database.

Project 2: Transition of RockBuster to Digital Platform



Summary: With the goal of determining how best to set up their digital movie platform, it was found that Rockbuster would benefit most from a diverse selection of movies, loyalty incentive programs, and a focus on several high revenue countries.



Link to GitHub Repository: https://github.com/kkulp-lab/SQL_Rockbuster_Analysis/tree/main

The locations of customers that generated the most revenue for Rockbuster

Project 3. Optimizing Customer Segmentation for Instacart

Project Overview:

This project was working with Instacart with the intention of analyzing sales trend to better target marketing.

They were focused on customer demographics, segmentation, and time and day of highest usage.

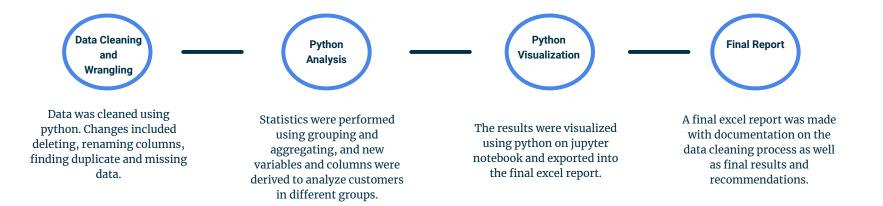




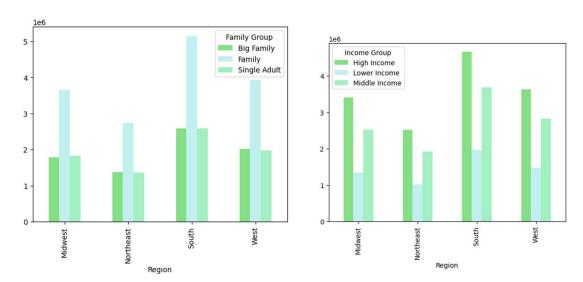
Data:

The data consisted of several data sets on customers, orders, and products. They were combined using python into one data set (32404859 rows).

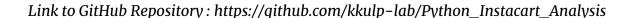
Project 3. Optimizing Customer Segmentation for Instacart

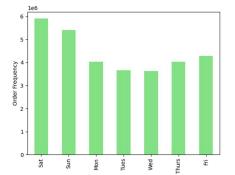


Summary: It was found that across all regions most orders came from higher income, two parents households with children during the weekend or on Friday and most commonly in the morning or daytime.

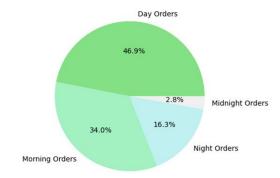


Bar charts showing that the most customer orders came from high income families, regions and customer groups are derived variables





A histogram displaying DOW with most orders



A pie chart showing the time of day with most orders, groups are derived variables

Project 4. California Communities Analysis

Project Overview:

This project was an in depth analysis of the relationships between various characteristics of CA counties.

The goal was to find any relationships between demographic and health markers that could predict which communities may suffer from poor health and need additional assistance.

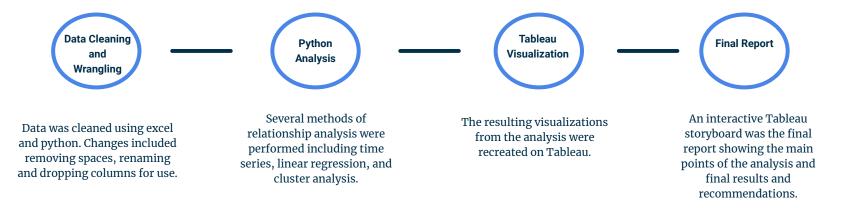




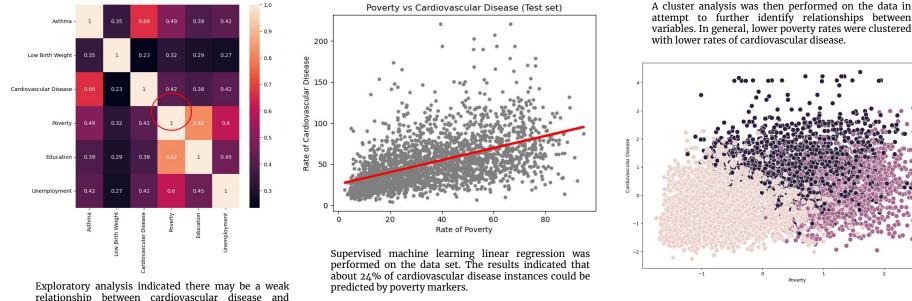
Data:

The data comes from the California Environmental Protection Agency. It consists of various environmental, demographic, and health markers by CA census tracts.

Project 4. California Communities Analysis



Summary: It was found that there is a weak relationship between poverty and cardiovascular disease. To mediate, more resources, education, and healthier food and environments should be available to those who are living with lower income.



Link to Tableau Storyboard: https://public.tableau.com/app/profile/katie.kulp/viz/Exercise_6_7/Story1?publish=yes Link to GitHub Repository: https://github.com/kkulp-lab/Python_California_Analysis

poverty

Please reach out for any questions... <u>katie kulp@yahoo.com</u>

https://github.com/kkulp-lab