

PROJECT

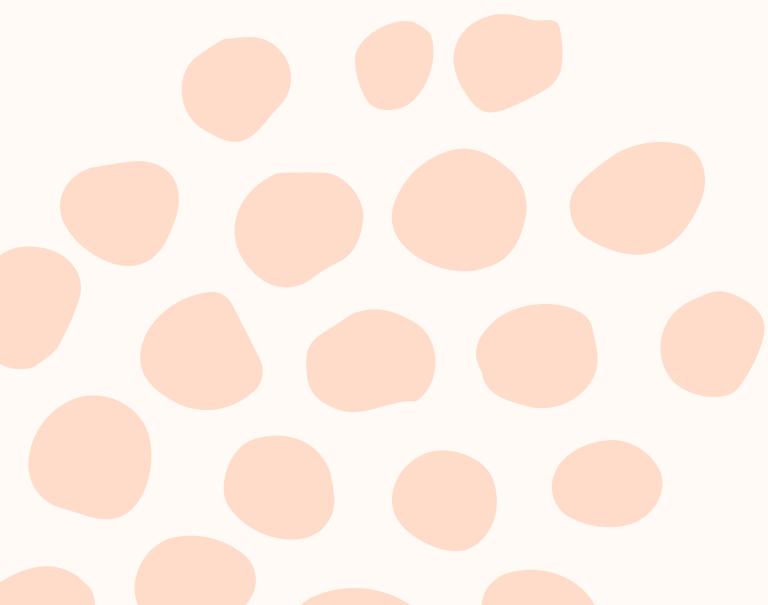
TEAM BOSSBUNCH

**SHRUTI
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**MANISHA
LAGISETTY**





Objective

- Develop a wine e-commerce application using PyQt
- Design and implement an operational database to support transactional workload
- Develop a user-friendly GUI to enable users to browse, purchase, and manage their wine collection
- Design and implement an analytics application to support data analytics and reporting
- Develop analytics and reporting features to provide insights into user behavior and wine sales for decision making



WINEHAVEN

Operational Application

Overview

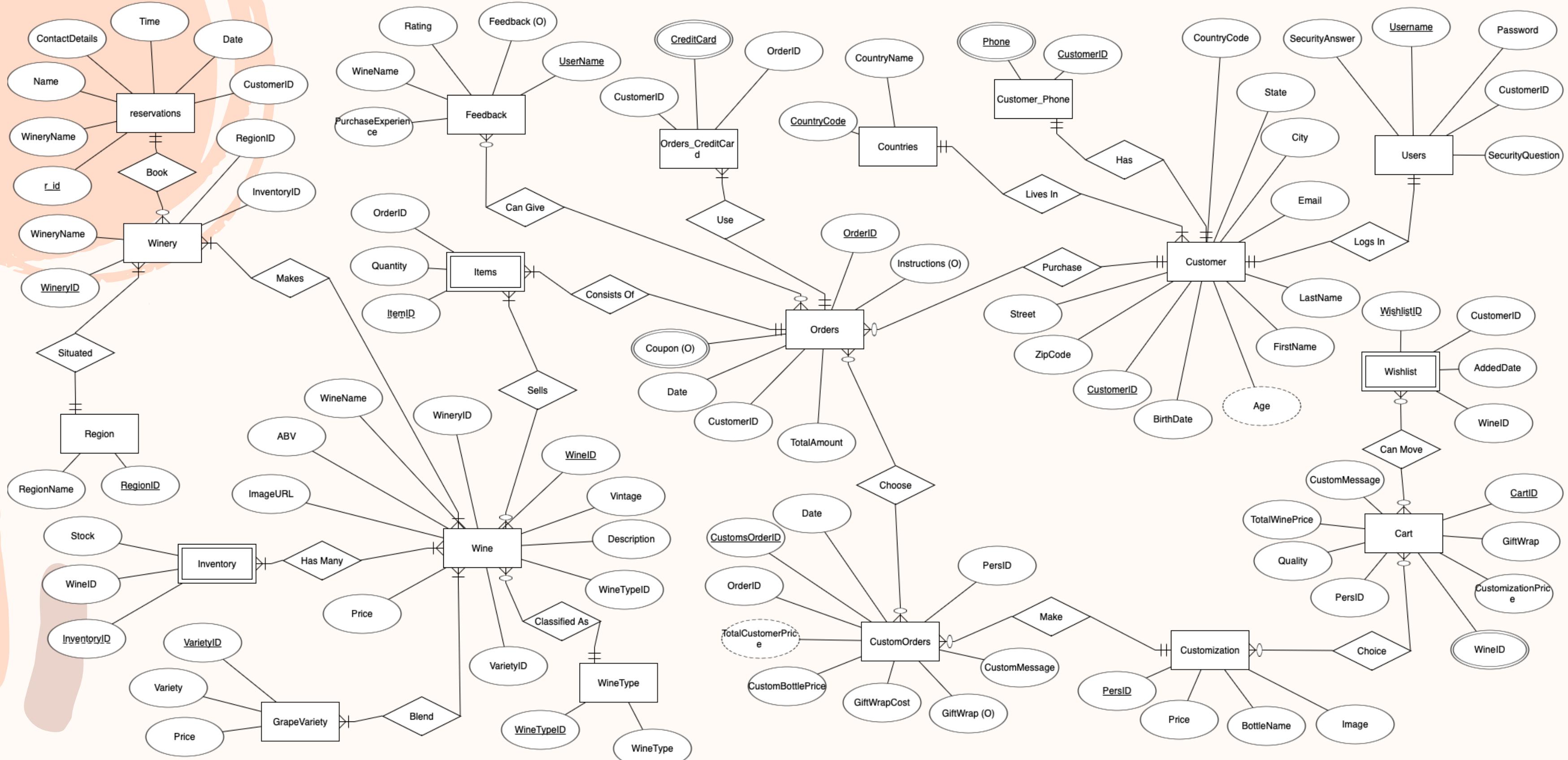
Welcome to our wine e-commerce application - WINEHAVEN!

Our wine e-commerce application offers a wide selection of wines including reds, whites, rosés, and sparkling wines. Users can easily filter wines to find the perfect wine to suit their tastes and preferences.

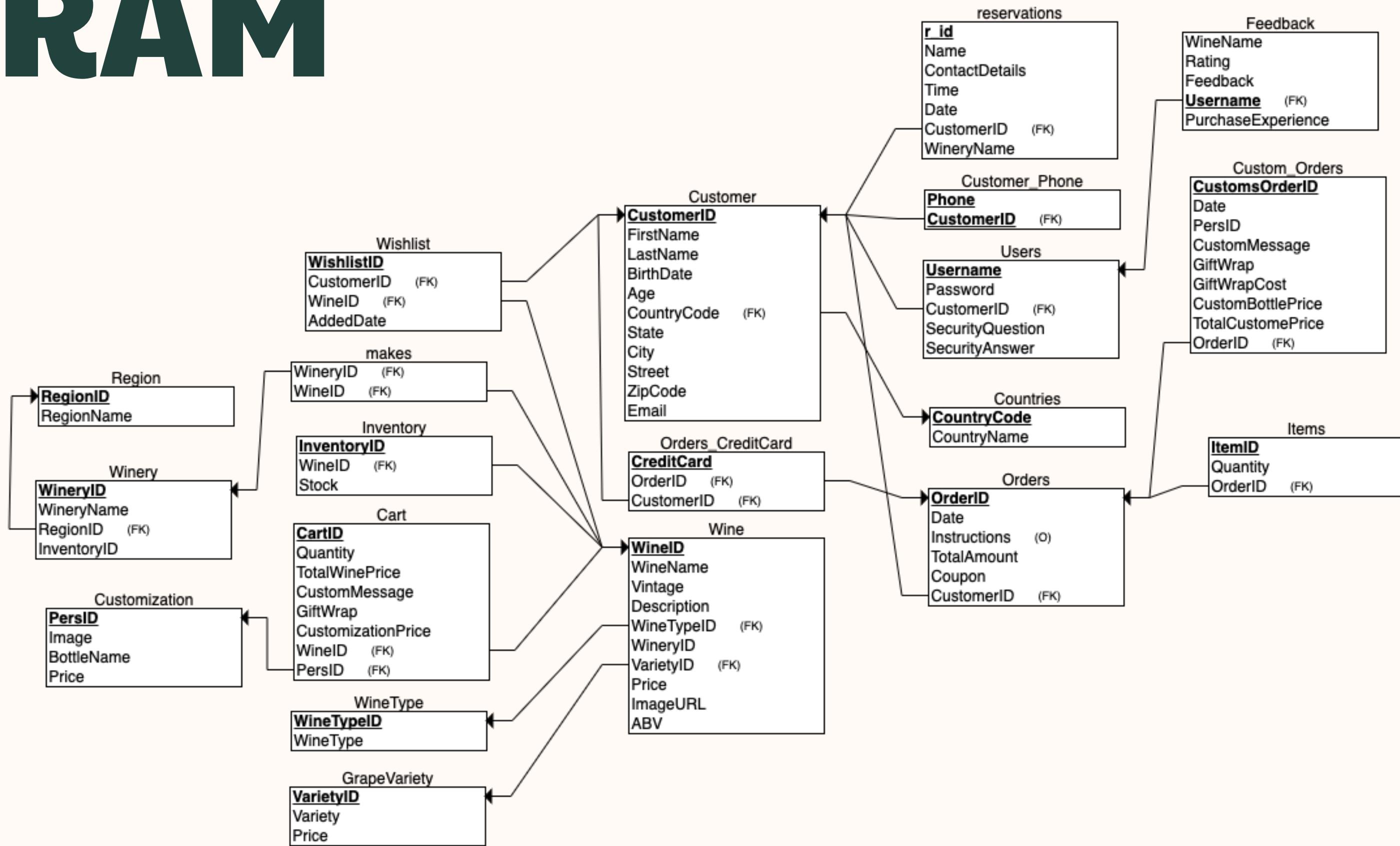
In addition to browsing and purchasing wines, our application also offers features for managing and organizing a wine collection. Users can create profiles, keep track of their favorite wines.

Our application is designed to provide a convenient and user-friendly platform for wine enthusiasts to browse, purchase, and manage their wine collection. Built using the PyQt framework, our application offers a seamless and responsive user experience, allowing users to navigate and interact with the application with ease.

ER DIAGRAM



RELATIONAL DIAGRAM



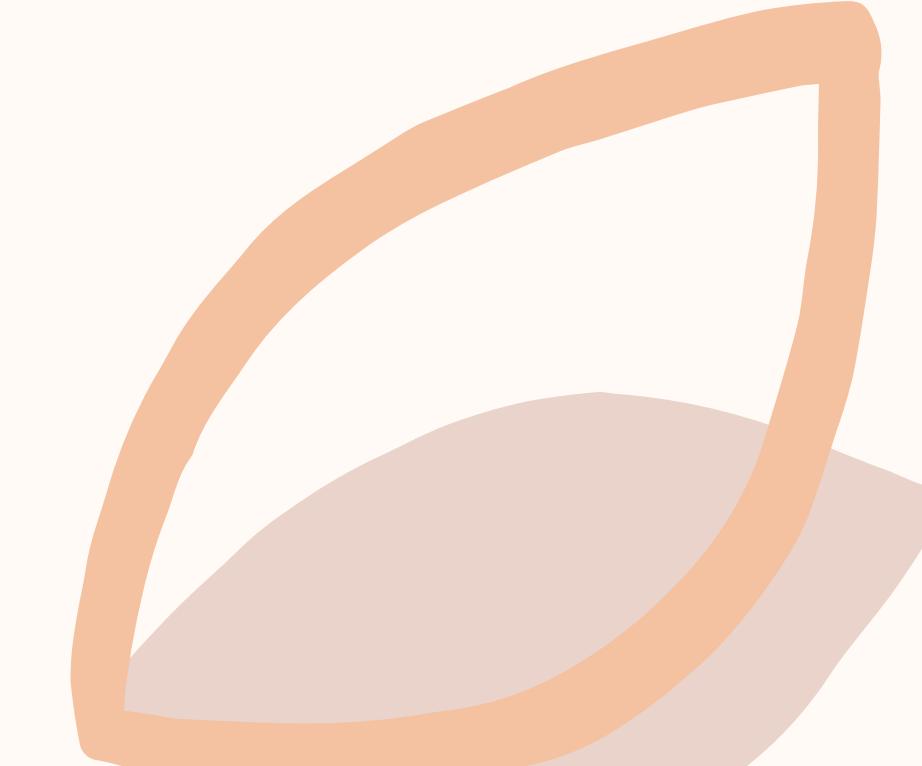
DATA SOURCE

- WINE and Winery Data are fetched from the website: <https://buywinesonline.com/>
- Customization details are extracted from the website :
<https://www.personalwine.com/labels>
- Mock up data using : <https://www.mockaroo.com/>

WINEHAVEN

LIVE DEMO

[https://drive.google.com/drive/folders/1srGshQ-navU-J9MLctsKoVBnRPNBKpEG?
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CELLAR INSIGHTS

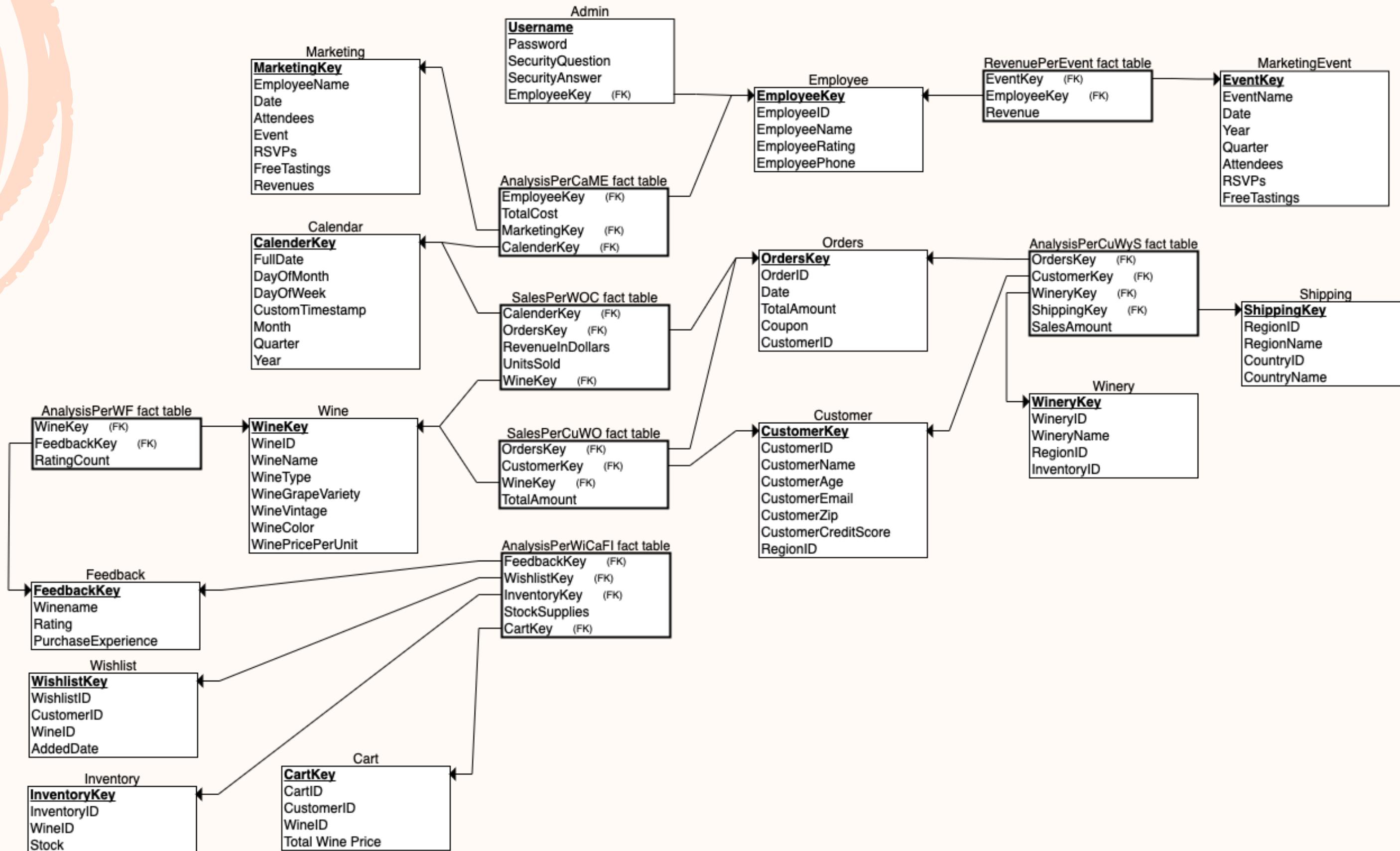
Analytical Application

Overview

An analytical application "Cellar Insights" designed to help wine businesses analyze their revenue and performance data. Cellar Insights offers a powerful toolset for analyzing these key metrics, providing businesses with valuable insights that can inform strategic decision-making and help drive growth.

Using Cellar Insights, businesses can easily track and analyze their revenue data, including sales by product, region, and customer segment. The application also allows businesses to track performance data, including production and inventory levels. With these powerful analytical tools, businesses can identify trends and patterns in their data, enabling them to make informed decisions and take proactive steps to improve their financial performance and customer engagement.

STAR SCHEMA



ETL

- The Data is extracted from Operational database
- The extracted Data is transformed to fit the analytical requirements
- Loaded to the warehouse tables(dimensional and fact tables) for further analysis

CELLAR INSIGHTS

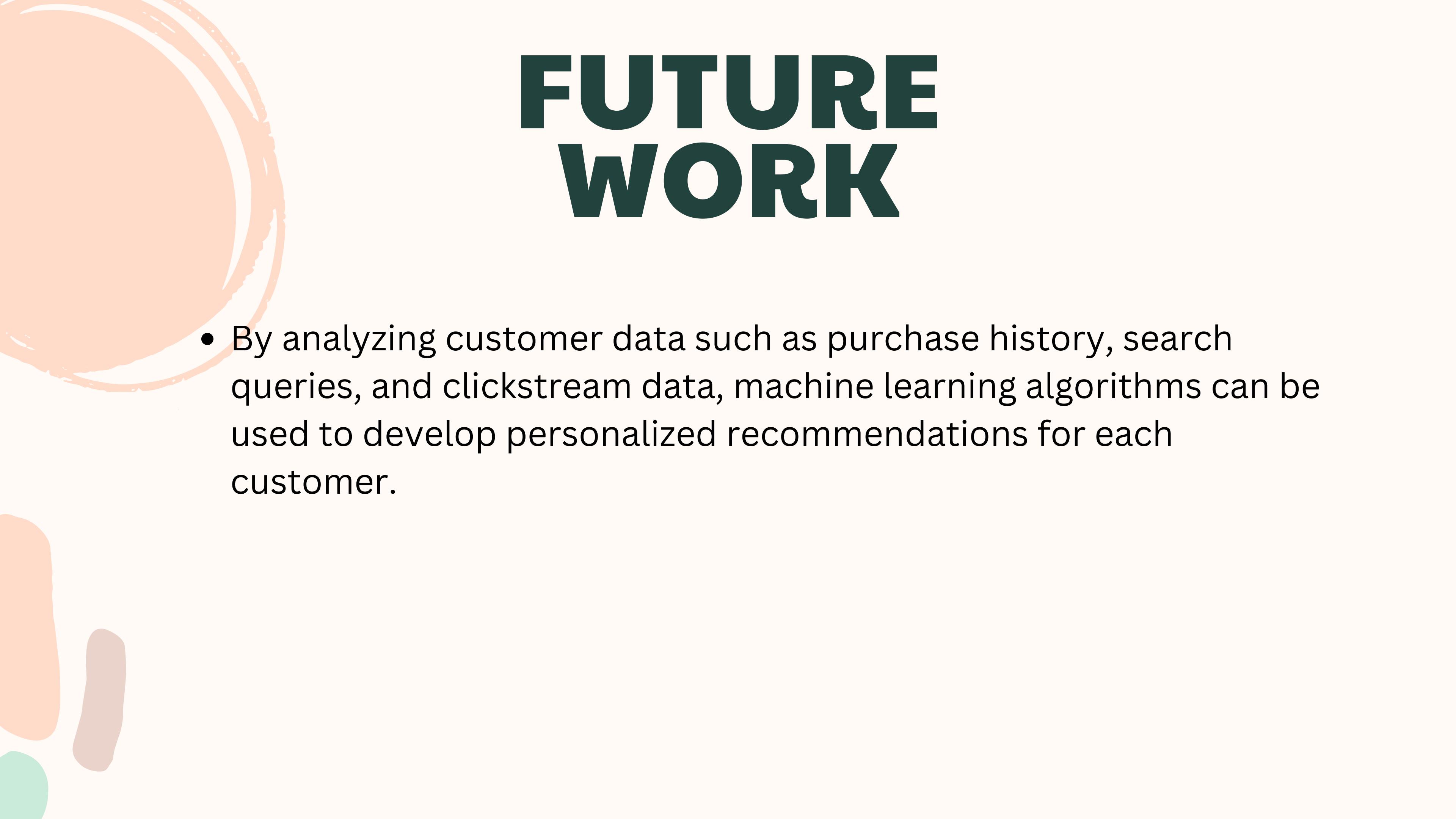
LIVE DEMO

[https://drive.google.com/file/d/1FkS5aZmHDSWNgG2MThfatzbJDA96Y_xI/view
?usp=share_link](https://drive.google.com/file/d/1FkS5aZmHDSWNgG2MThfatzbJDA96Y_xI/view?usp=share_link)



CONCEPTS IMPLEMENTED

- AGGREGATIONS
- PROCEDURES
- VIEWS
- SLICE
- DICE



FUTURE WORK

- By analyzing customer data such as purchase history, search queries, and clickstream data, machine learning algorithms can be used to develop personalized recommendations for each customer.



Thank
you!

