# SUPERMARKET BUSINESS PLAN

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#### **BACKGROUND ON SUPERMARKETS**

#### 2.7% growth per year

Market size of the Supermarket industry has grown 2.7% per year, on avg.

#### 3,500 customers per day

Average number of customers in one supermarket chain is 3,500 people per day.

## 1.6x visits per week

Americans visit the supermarket 1.6x per week.



#### **BUSINESS IMPACT**

#### Client



### Why it matters

Due to market competition, supermarkets must establish clear points of differentiation in order to increase profit margins.

# TRADER JOE'S

# **PROBLEM**

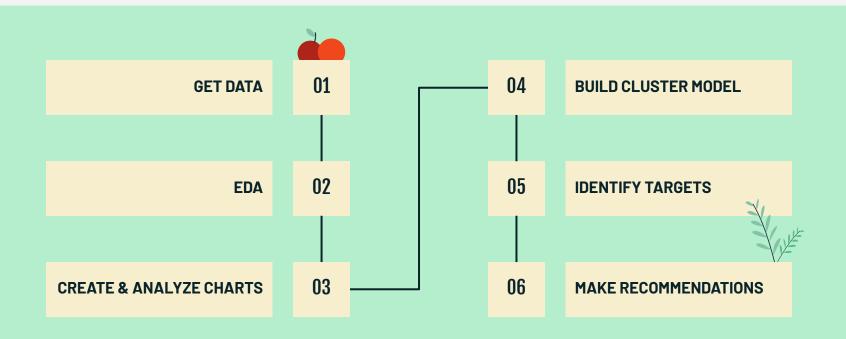
How can TJ's gain a competitive advantage and increase profits?

# SOLUTION

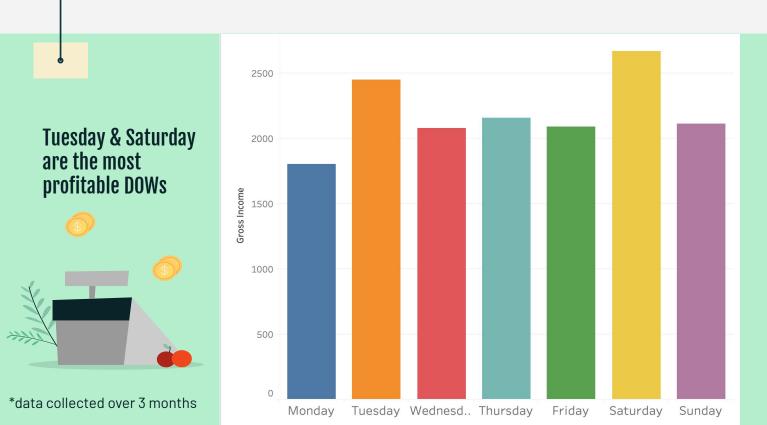
Build a clustering model to determine customer & product segments with high profits.



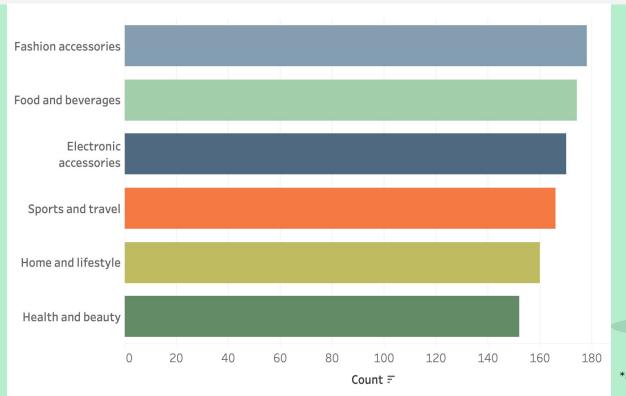
#### **METHODOLOGY**



## **Total Gross Income by Day of Week**



#### **Total Count of Products Purchased**

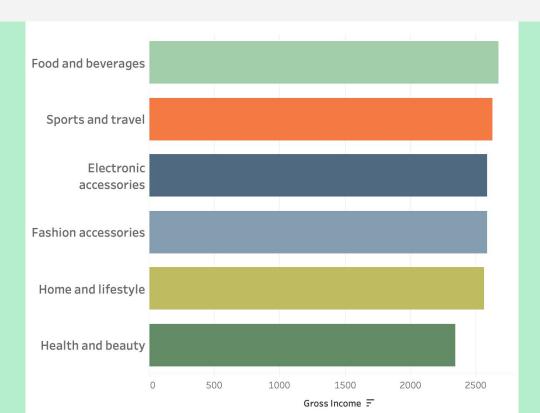


Fashion &
Food/beverage
items are the most
purchased
products



\*data collected over 3 months

#### **Total Income from Products Purchased**



Food/beverage & sports/travel items bring in the most income

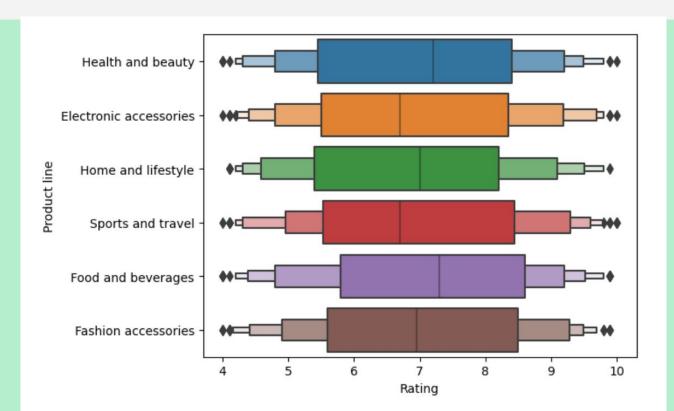


\*data collected over 3 months

## **Average Income per Hour**



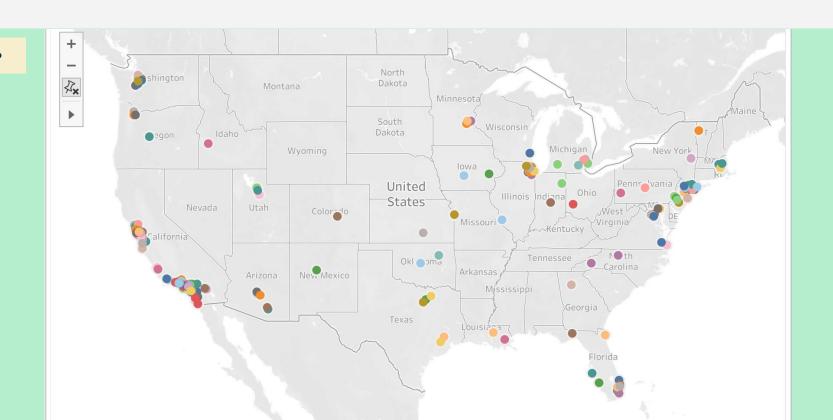
### **Ratings per Product line**



Food/beverage items have a slightly higher average rating



#### **Trader Joe's Locations**



#### WHAT DOES SUCCESS LOOK LIKE?



#### **Short term success:**

Profits increase in 1 segment

#### Long term success:

Profits increase across each segment



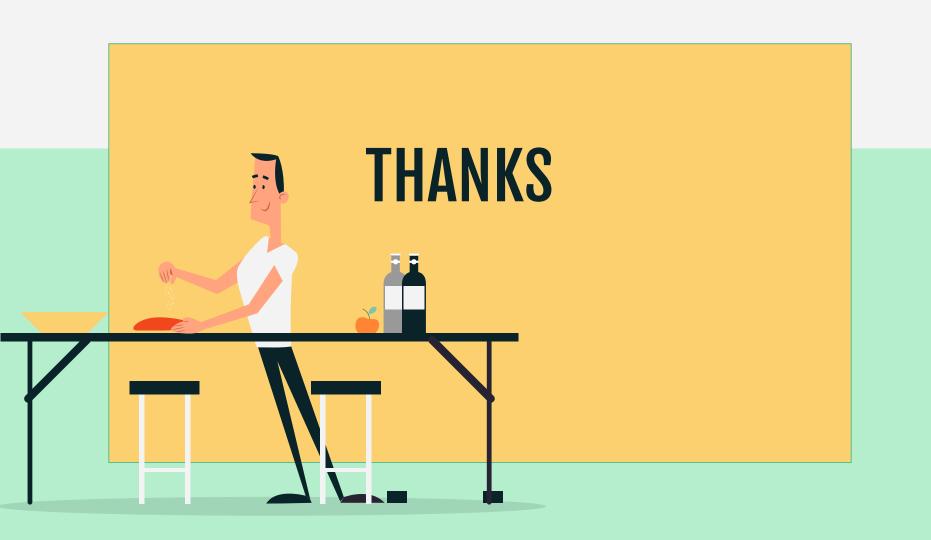
# Recommendations

- Offer sales/senior discounts on slow DOW
- Increase prices of best-selling items, put on easily accessible shelves
- Group items by interest (ie: wine near cheese)
- Cut health/beauty products that don't profit
- Increase staff during 2pm shift to restock items & reduce wait time in check-out lane



## **FUTURE WORK**

- Get insight into subcategories (ie: health/junk food)
- Find data on customer demographics to better market consumers
- Use location data to see if certain products sell better in other stores
- Time spent in store



#### **APPENDIX**

https://www.statista.com/statistics/251728/weekly-number-of-us-grocery-shopping-trips-per-household/

https://public.tableau.com/app/profile/lily7263/viz/Project3\_3\_16445087510140/Dashboard1 ?publish=yes

https://www.businessinsider.com/typical-trader-joes-shopper-demographic-younger-marrie d-earning-80k-income-2021-9



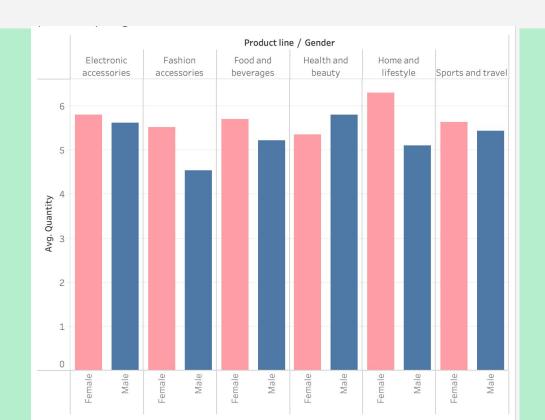
#### **GENDER COUNT & CUSTOMER TYPE**

Gender Count		Customer Type	
Gender		Customer type	
Female	501	Member	501
Male	499	Normal	499

# Branch quantity by hour in monthly fashion



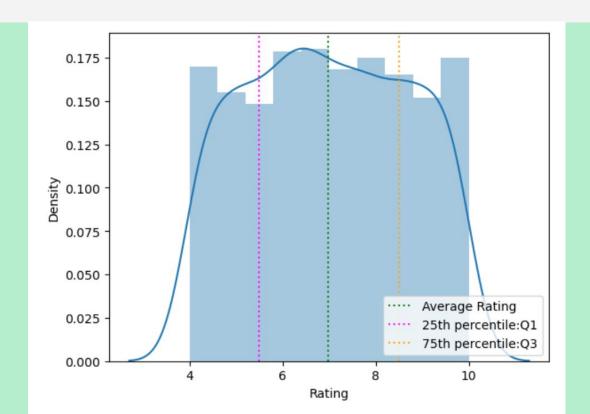
# Transactions per Gender



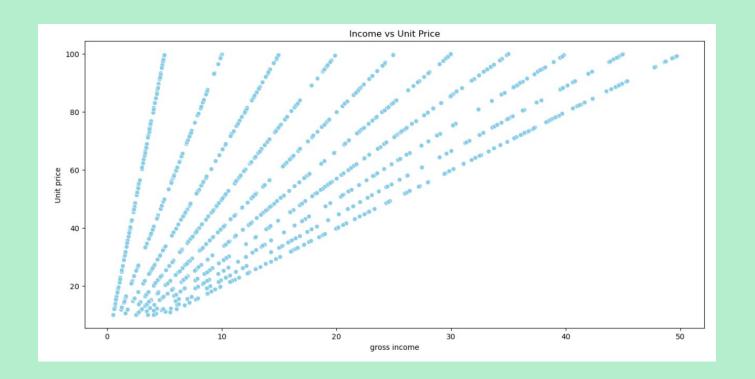
# **Payment Method**



## What does customer rating look like? Skewed?



# Income vs unit price



#### **Average Income from Products Purchased**

