



# CustomersView



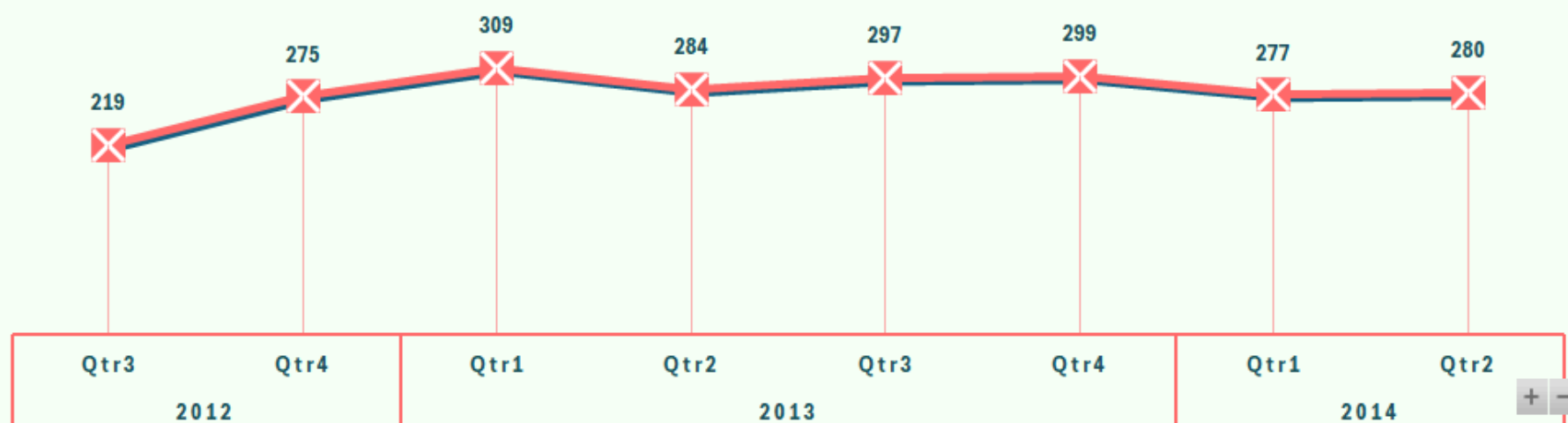
Total Customers **2.2K**

Total Complains **21**

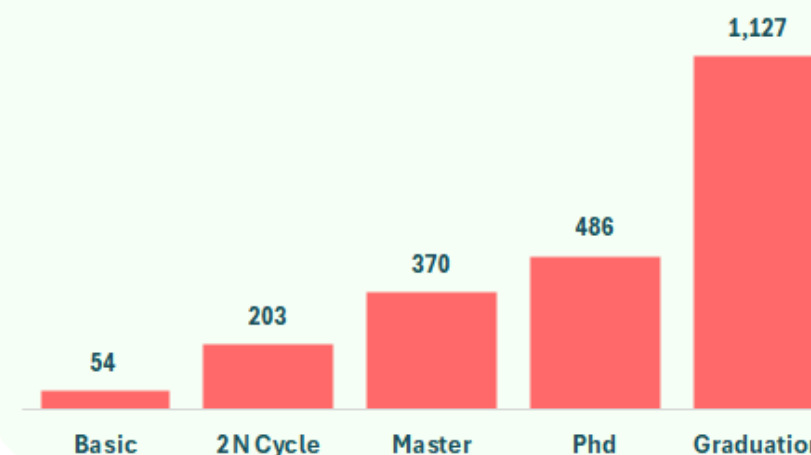
AVG Annual Income **\$52.2K**

Customers AVG Age **55**

## Customers By Enrollment



## Customers By Educational level



Enrollment Date

All Periods

QUARTERS

2012

2013

2014

Q1

Q2

Q3

Q4

Q1

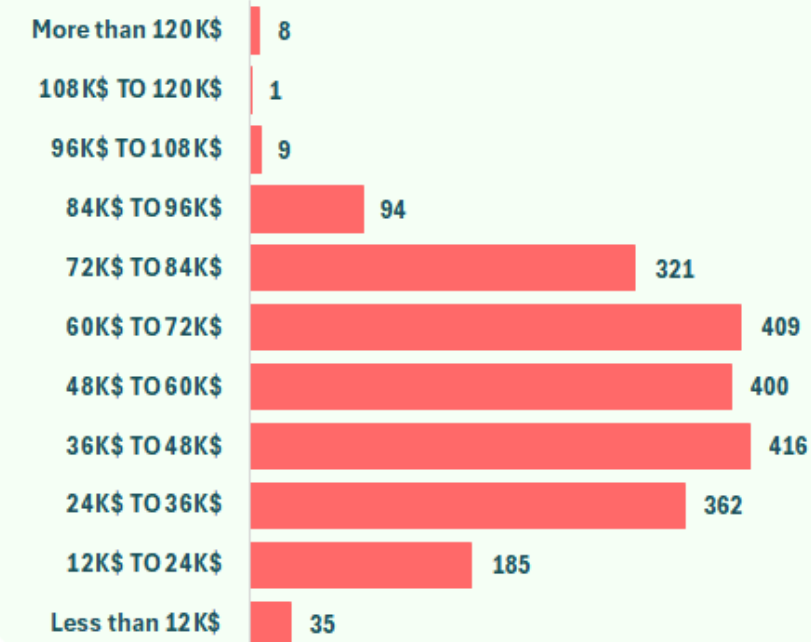
Q2

Q3

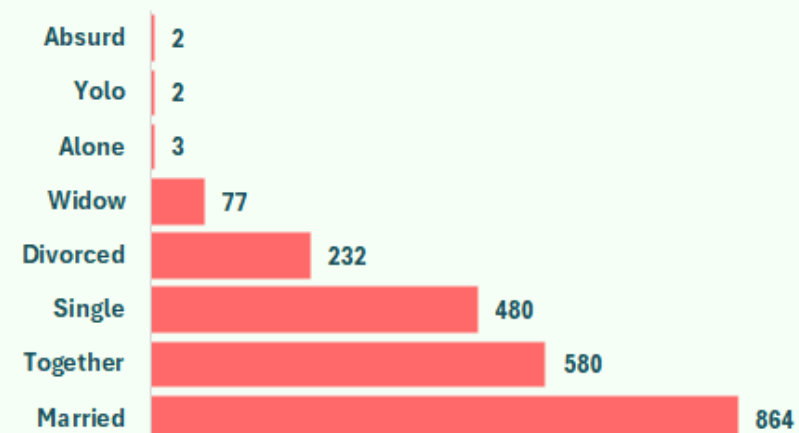
Q4

Q1

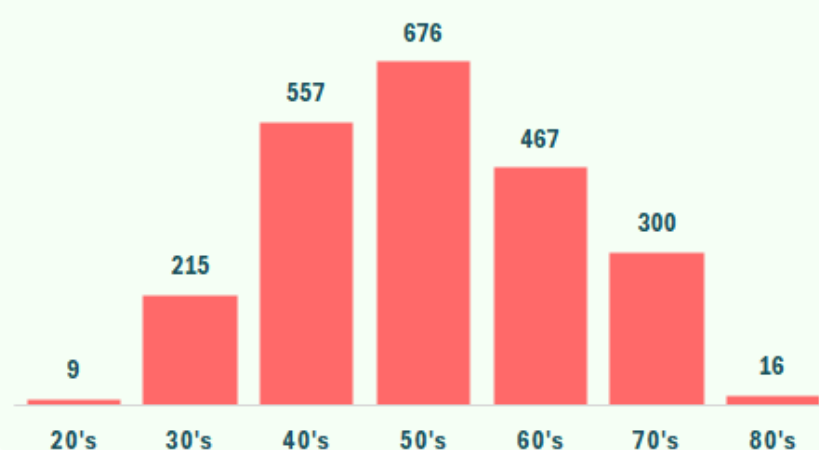
## Customers Annual income Distribution



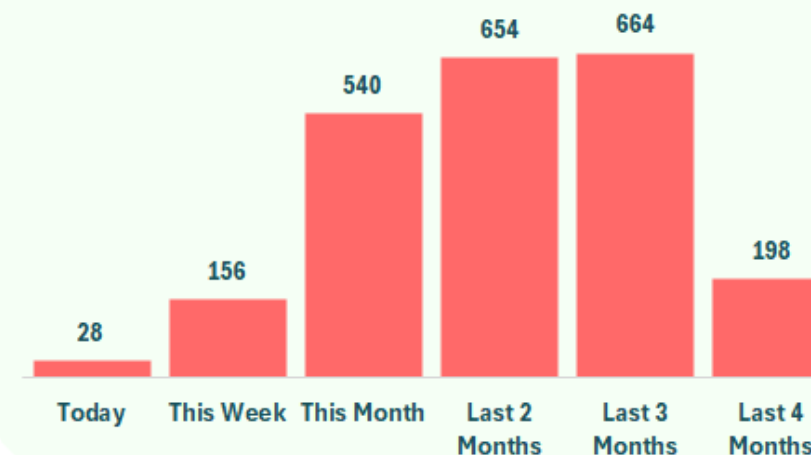
## Customers By Marital Status



## Customers age Distribution



## Customers By Last Purchase



Total Revenue\$1.4M

Wine Returns\$680.8K

Meat Returns\$374.0K

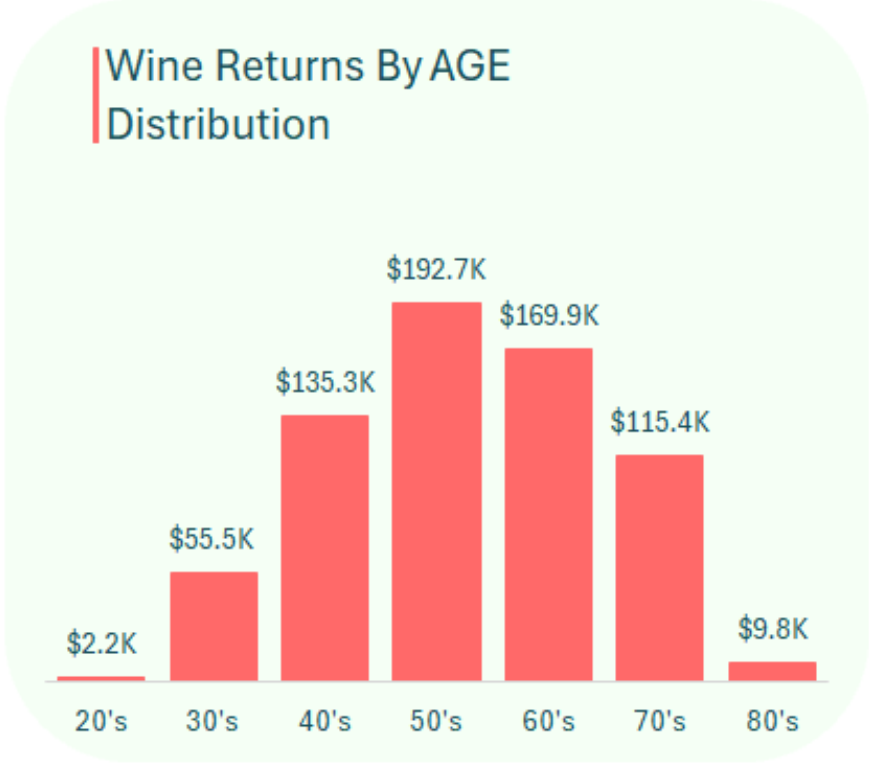
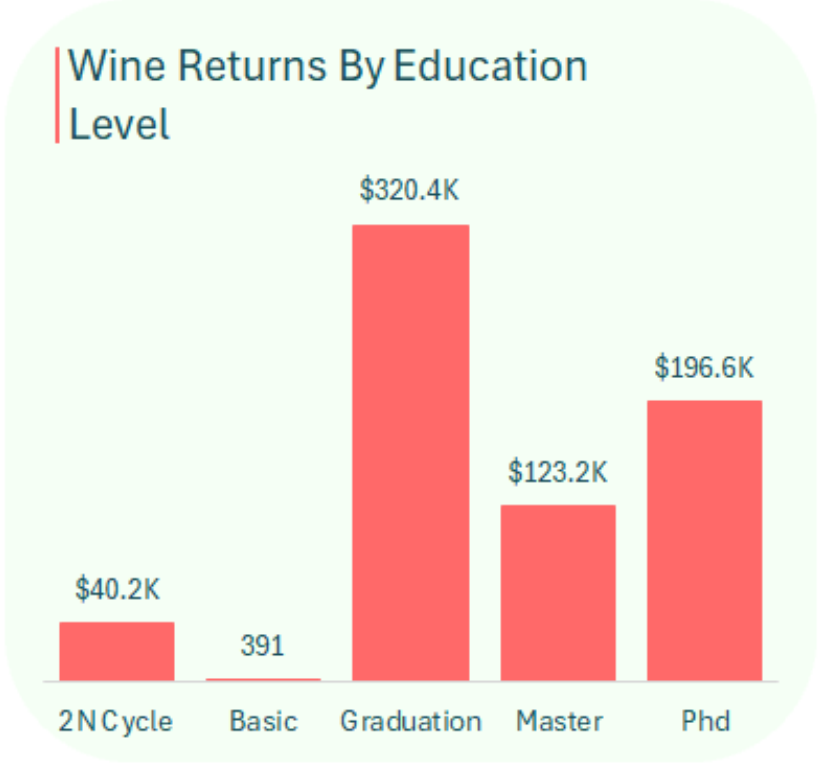
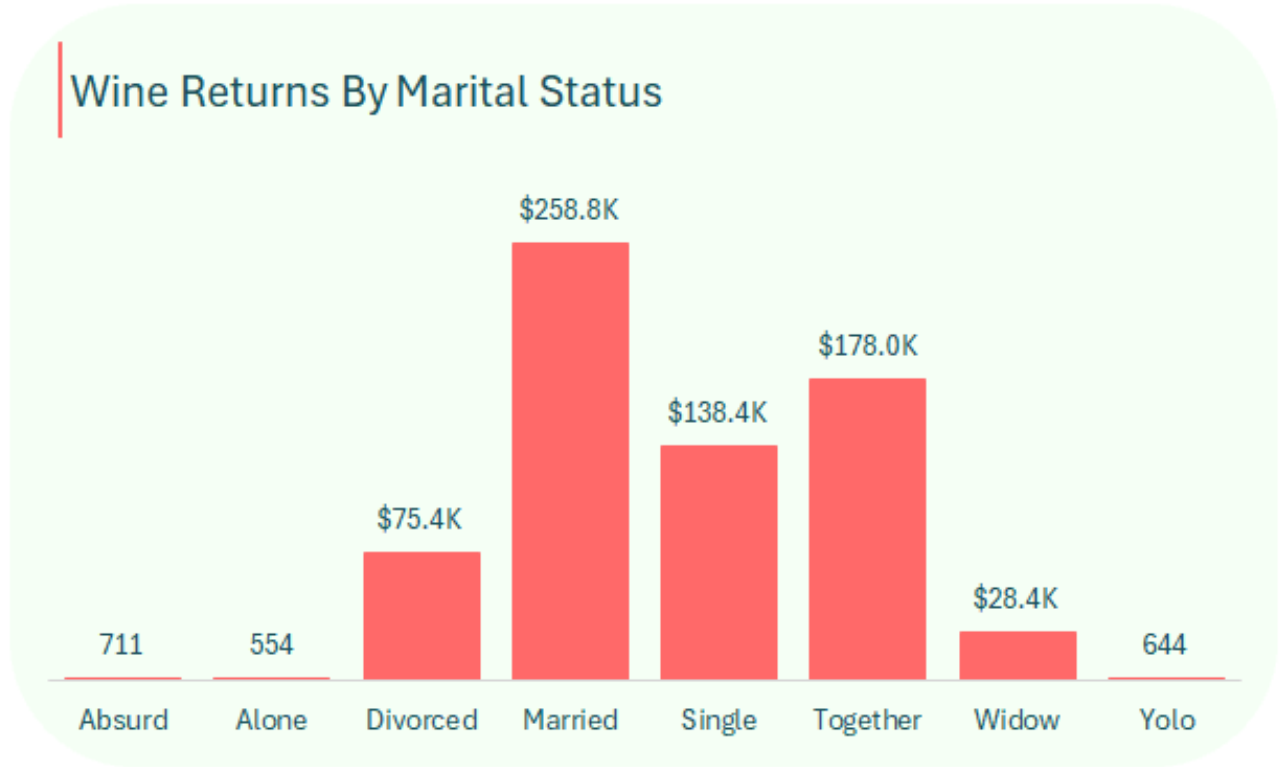
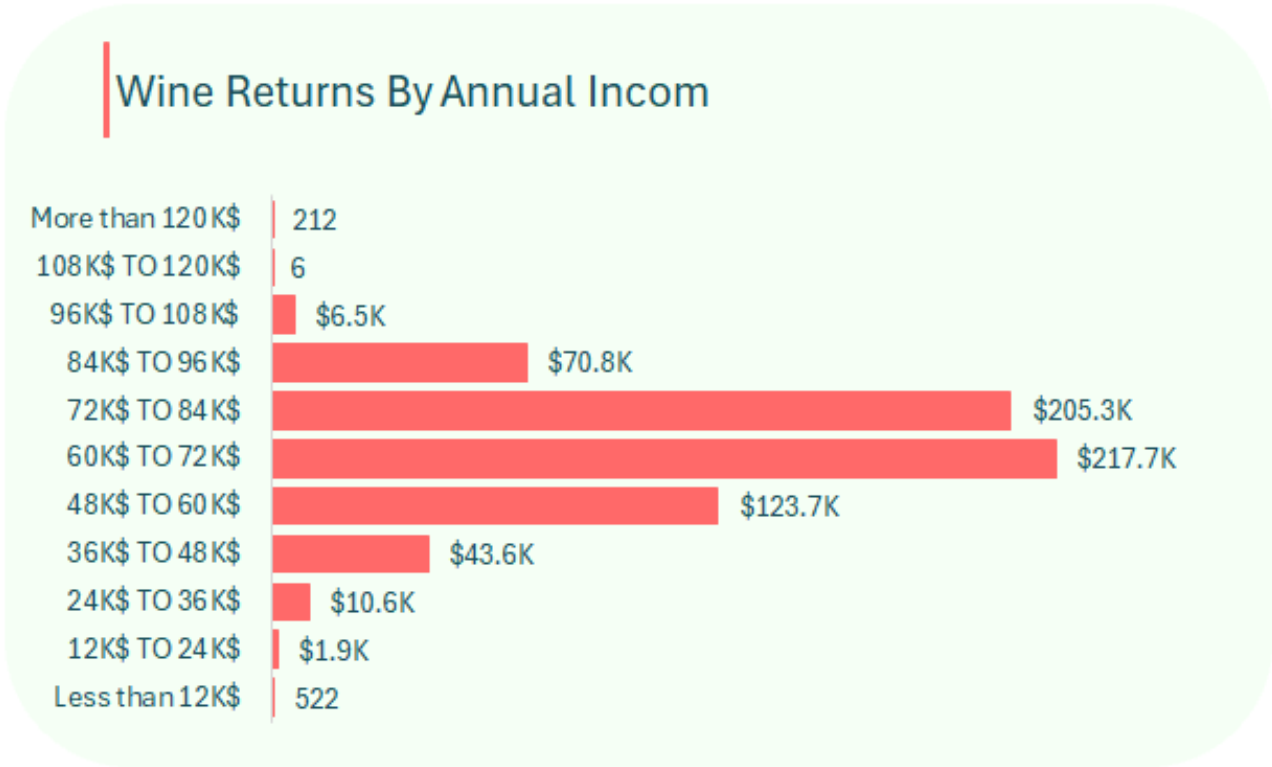
Fish Returns\$84.1K

Fruits Returns\$58.9K

Sweets Returns\$60.6K

Gold Returns\$98.6K

Wine • Meat • Fish • Fruits • Sweets • Gold





# PlaceView



WebVisits 11.9K

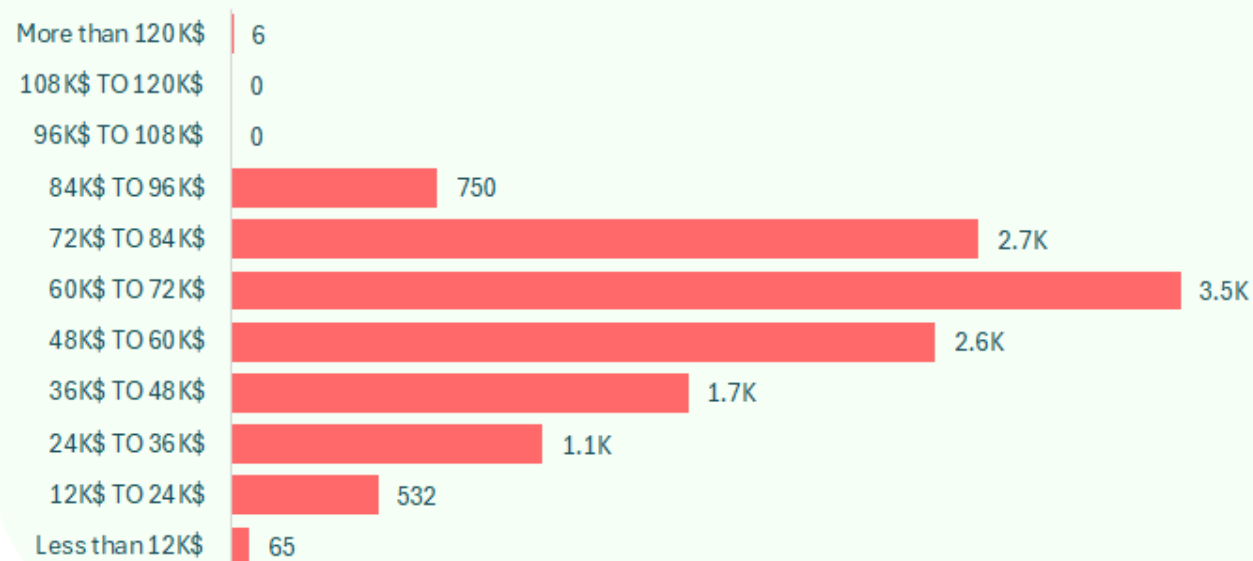
WebPurchase 9.2K

Catalog Purchase 6.0K

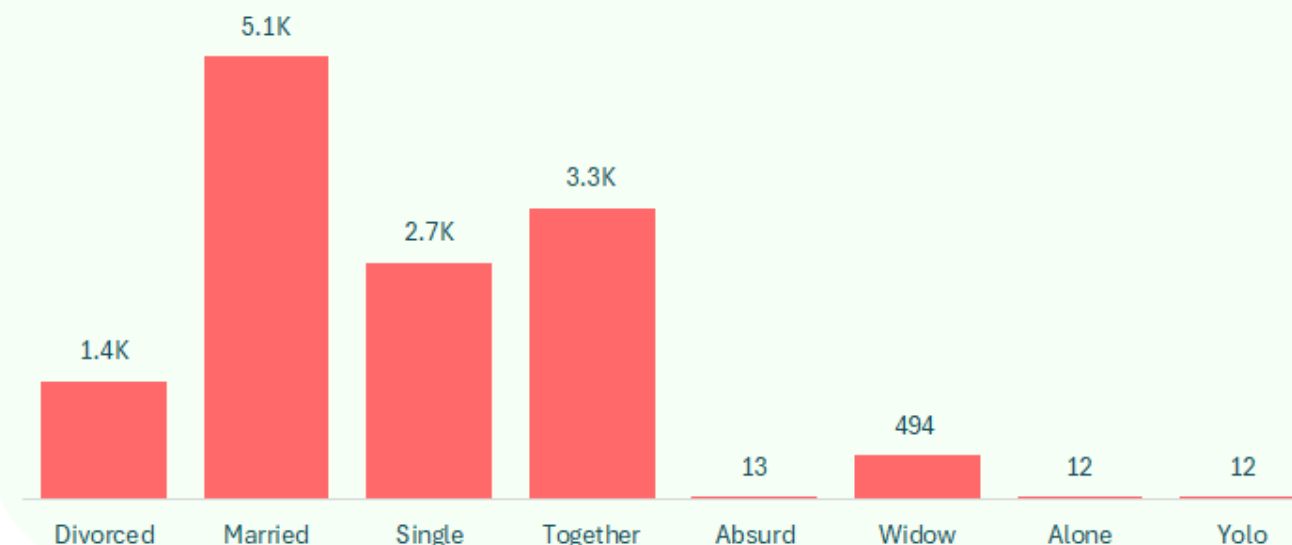
StorePurchase 13.0K

• Website • Catalog • Store

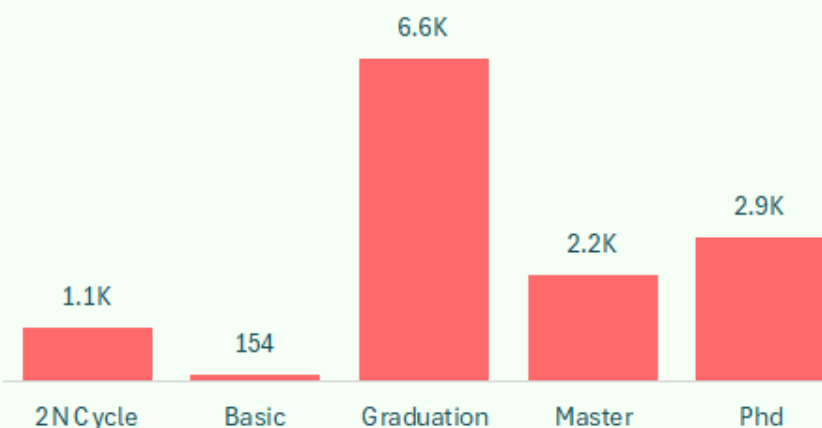
Total Purchase Through Stores By Annual Income



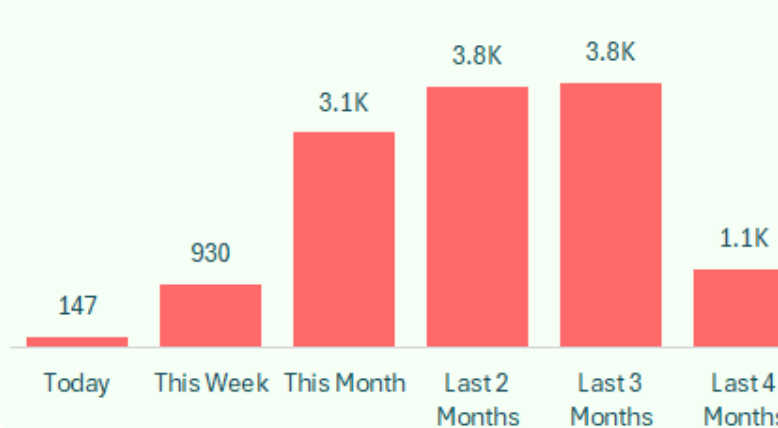
Total Purchase Through Store By Marital Status



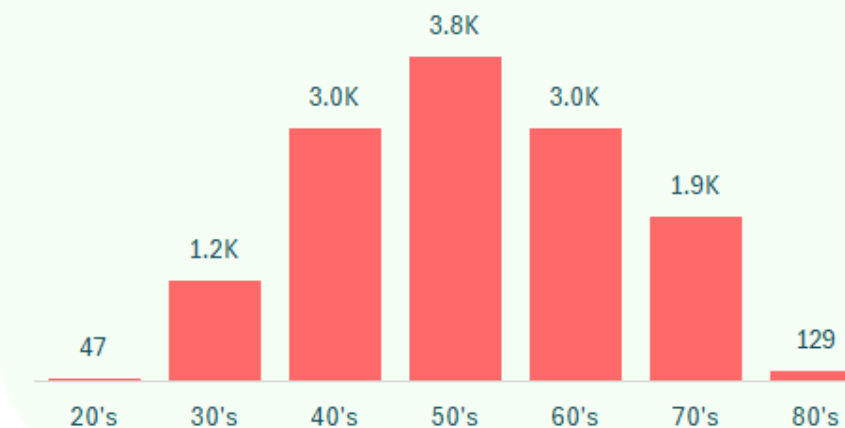
Total Purchase Through Stores By Education Level



Total Purchase Through Store By Last Purchase



Total Purchase Through Stores By AGE Distribution



TotalDiscounts 5.2K

LastCamp 334

5thCamp 163

4thCamp 167

3rdCamp 163

2dCamp 30

1stCamp 144

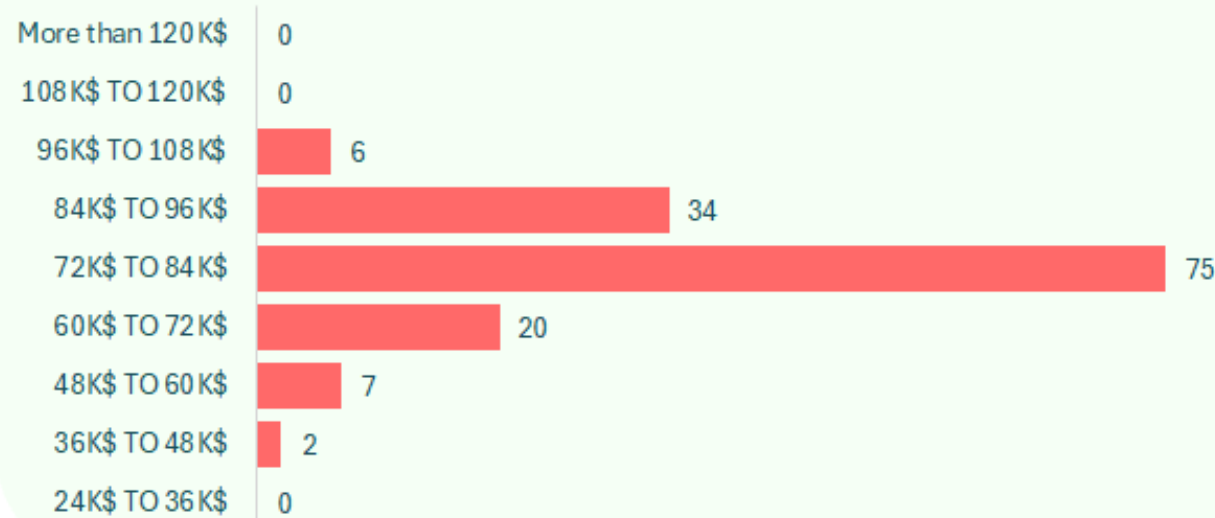


# PromotionView

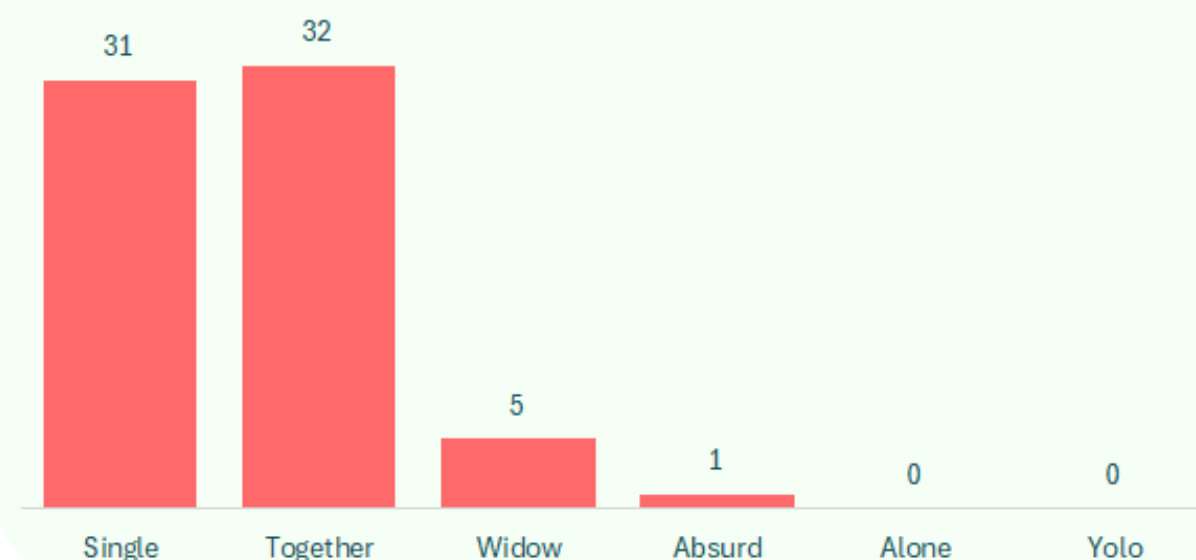


• 1stCa • 2dCa • 3rdCa • 4thCa • 5thCa • LastCa

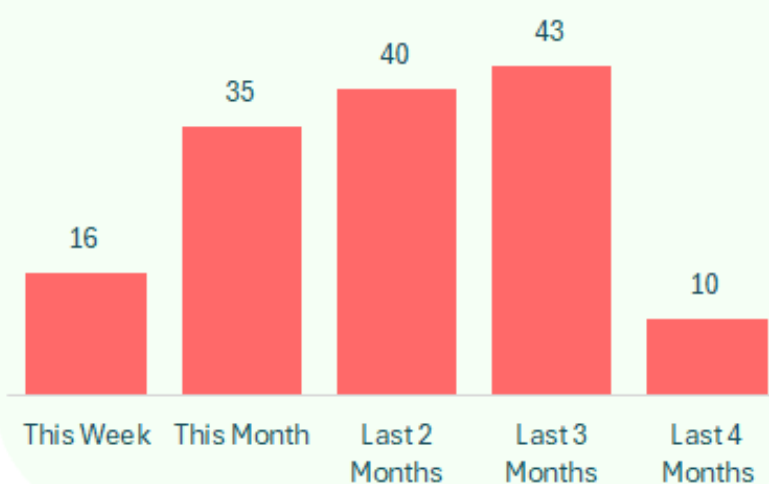
Responding to 1stCamp By Annual Income



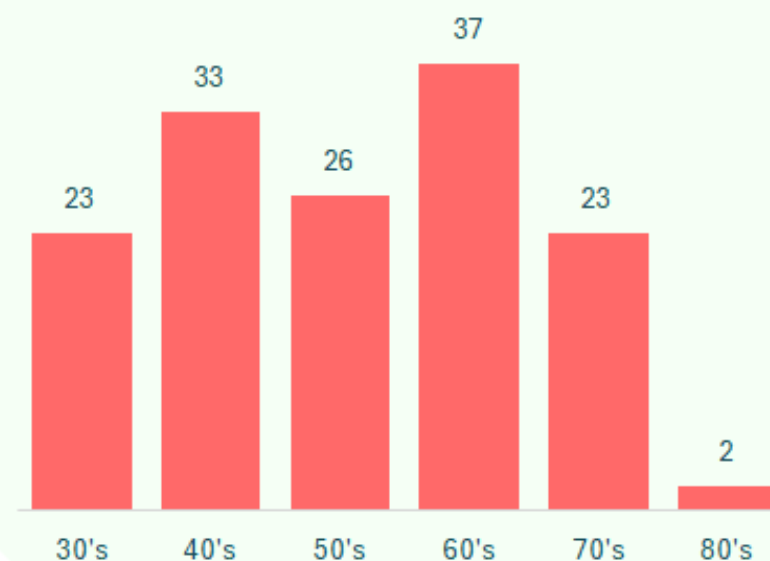
Responding to 1stCamp By Marital Status



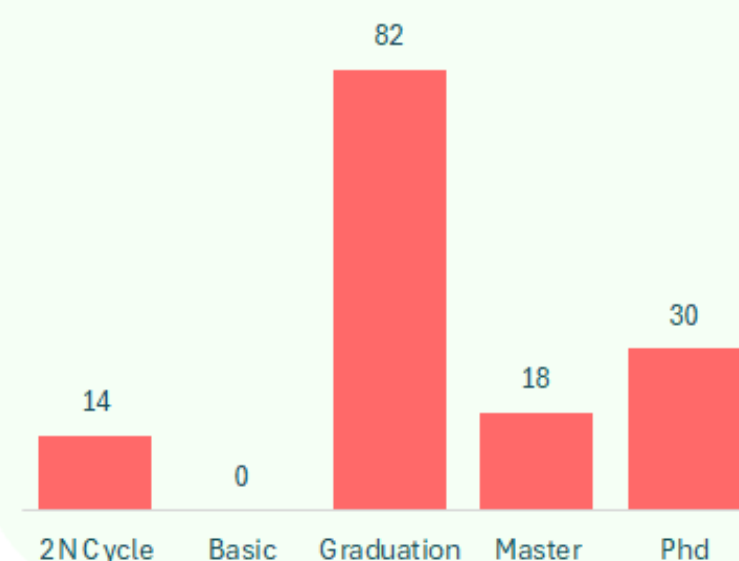
Responding to 1stCamp By Last Purchase



Responding to 1stCamp By AGE Distribution



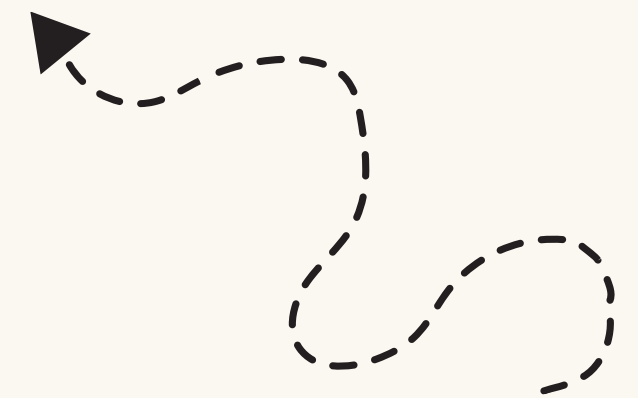
Responding to 1stCamp By Education Level



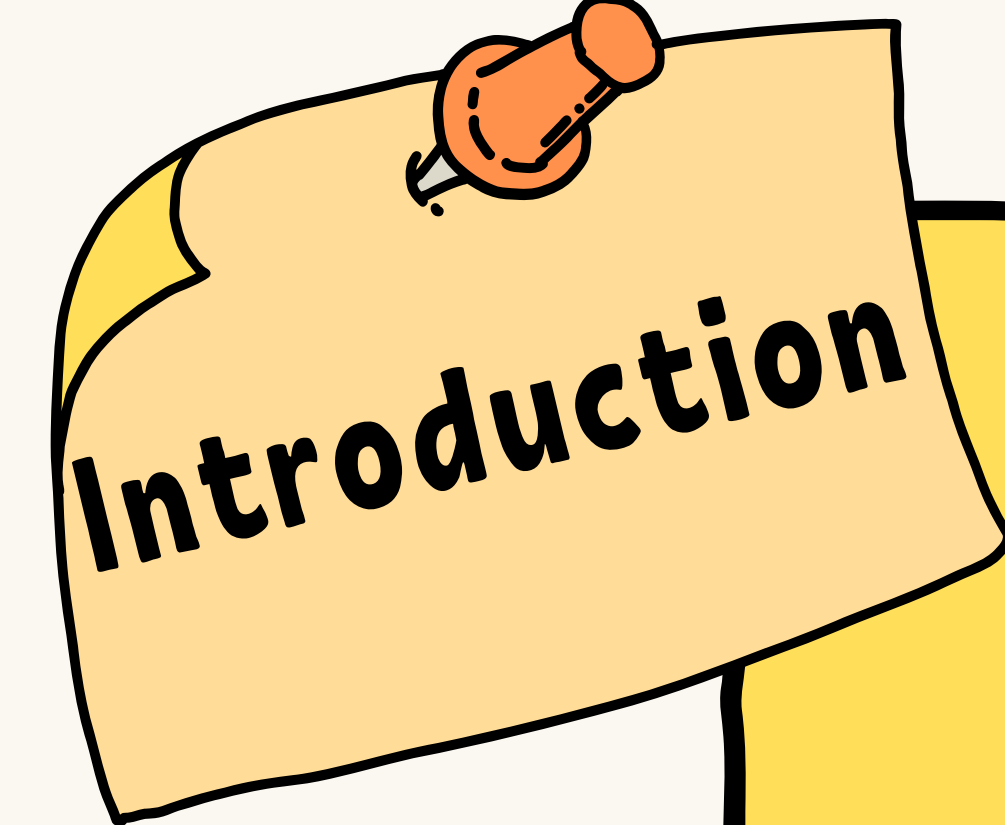
By Kareem Shaaban

# Customer Personality Analysis

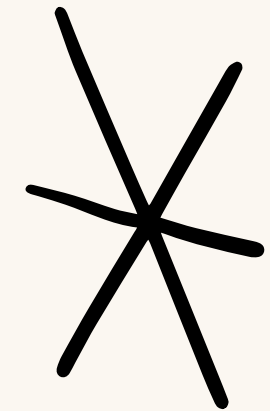
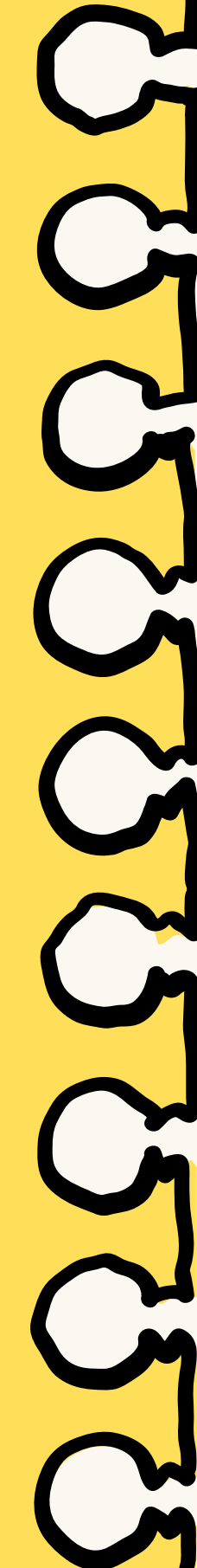
TASK 3 WITH COGNORISE INFOTECH







**Customer personality analysis involves a comprehensive examination of a company's customer base to better understand their behaviors, preferences, and needs. This analysis enables businesses to tailor products, marketing strategies, and services to specific customer segments. By identifying the most likely buyers for a product, companies can allocate resources more efficiently and enhance customer satisfaction. In this project, I will explore customer data to segment the market and provide insights into customer behaviors, helping the business optimize its engagement strategies.**









## Custom Column

Add a column that is computed from the other columns.

New column name

Age

Custom column formula ⓘ

```
= Date.Year(DateTime.LocalNow())  
-[Year_Birth]
```

Available columns

ID  
Enrollment Date  
Year\_Birth  
Education  
Marital\_Status  
Kidhome  
Teenhome

<< Insert

[Learn about Power Query formulas](#)

✓ No syntax errors have been detected.

OK

Cancel

## Custom Column

Add a column that is computed from the other columns.

New column name

Annual Income

Custom column formula ⓘ

```
= if [Income] = null then  
    List.Average(  
        Table.SelectRows("#Age", each [Education] =  
            [Education])[Income]  
    )  
else  
    [Income]
```

Available columns

ID  
Enrollment Date  
Year\_Birth  
Education  
Marital\_Status  
Kidhome  
Teenhome

<< Insert

[Learn about Power Query formulas](#)

✓ No syntax errors have been detected.

OK

Cancel

## Custom Column

Add a column that is computed from the other columns.

New column name

Sons

Custom column formula ⓘ

```
= if [Kidhome]=0 and [Teenhome]=0 then "NoChildren"  
else if [Kidhome]>0 and [Teenhome]=0 then "ChildrenOnly"  
else if [Kidhome]=0 and [Teenhome]>0 then "TeenagerOnly"  
else if [Kidhome]>0 and [Teenhome]>0 then "Children&  
Teenagers"  
else null
```

Available columns

ID  
Enrollment Date  
Age  
AGE BRKETS  
Education  
Marital\_Status  
Kidhome

<< Insert

[Learn about Power Query formulas](#)

✓ No syntax errors have been detected.

OK

Cancel

## Add Conditional Column

Add a conditional column that is computed from the other columns or values.

New column name

Last Purchase

	Column Name	Operator	Value ⓘ		Output ⓘ	
If	Recency	is greater than	ABC 123 90	Then	ABC 123 Last 4 Months	...
Else If	Recency	is greater than	ABC 123 60	Then	ABC 123 Last 3 Months	
Else If	Recency	is greater than	ABC 123 30	Then	ABC 123 Last 2 Months	
Else If	Recency	is greater than	ABC 123 7	Then	ABC 123 This Month	
Else If	Recency	is greater than	ABC 123 0	Then	ABC 123 This Week	
Else If	Recency	equals	ABC 123 0	Then	ABC 123 Today	

Add Clause

Else ⓘ

Recency

OK

Cancel

### Customers

- ID
- Enrollment Date
- Age
- AGE BRKETS
- Education
- Marital\_Status
- Kidhome
- Teenhome
- Annual Income
- INCOME BRACKETS
- Income Brakets Grade
- Last Purchase
- Last purchase grade
- Complain
- Sons
- Enrollment Date (Year)
- Enrollment Date (Quarter)
- Enrollment Date (Month I...
- Enrollment Date (Month)
- Avg income

### Products

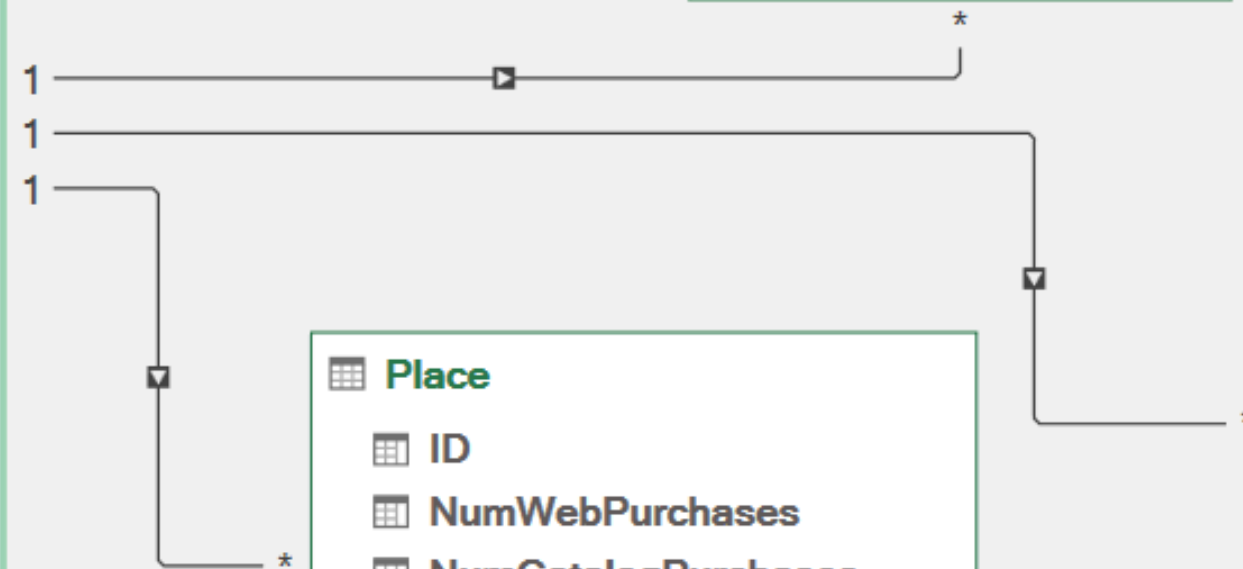
- ID
- Wine
- Fruits
- Meat Products
- Fish Products
- Sweet Products
- Gold Products

### Promotion

- ID
- No.Of purchases with a discount
- AcceptedCmp1
- AcceptedCmp2
- AcceptedCmp3
- AcceptedCmp4
- AcceptedCmp5
- AcceptedLastCmp

### Place

- ID
- NumWebPurchases
- NumCatalogPurchases
- NumStorePurchases
- NumWebVisitsMonth



# Analysis

## About Customers

- What is the average age of our customers?
- What is the average annual income of our customers?
- How many total complaints have we received from customers?
- How are customers distributed across various categories, such as age, educational level, marital status, annual income, last purchase, and enrollment date?

## About Promotions

- What is the total response to each campaign?
- How does the total response to each campaign vary across different customer categories?
- What are the total discounts given?

## About Location

- What is the total purchase amount for stores, catalogs, and online channels?
- How many total website visits did we have last month?
- What is the total purchase amount by customer category for each location?

## About Products

- What is the total revenue generated?
- What is the total revenue for each product category?
- What are the total returns for each product category, segmented by customer category?

# FINDINGS

- Total revenue: \$1.4M
- Wine returns: \$680.8K
- Meat product returns: \$374.0K
- Gold product returns: \$98.6K
- Fish product returns: \$84.1K
- Sweets returns: \$60.6K
- Fruits returns: \$58.9K

## Product Insights

## Customer Insights

- Total number of customers: 2.2K
- Total complaints: 21
- Average annual income of customers: \$52.2K
- Average age of customers: 55
- The most common educational level is graduation, with 1,127 customers.
- The majority of customers are married, totaling 864 customers.

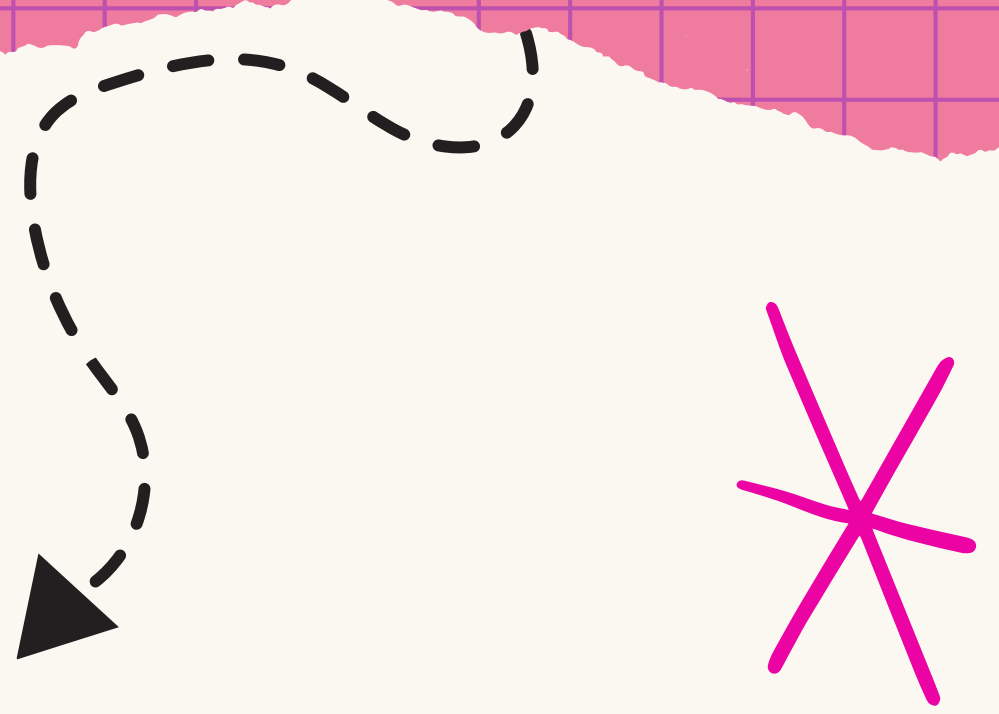
## Promotions Insights

## Location Insights

- Total response in the 1st campaign: 144
- Total response in the 2nd campaign: 30
- Total response in the 3rd campaign: 163
- Total response in the 4th campaign: 167
- Total response in the 5th campaign: 163
- Total response in the final campaign: 333
- Total discount offered: \$5.2K

- Total website visits last month: 11.9K
- Online purchases: 9.2K
- Catalog purchases: 6.0K
- In-store purchases: 13.0K

# SUMMARY

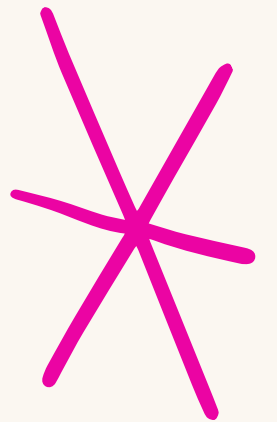


The objective of this project was to cluster and segment customers to better understand their behaviors and preferences. The analysis revealed key customer insights, such as an average age of 55, an average annual income of \$52.2K, and a majority being married and graduates. Product data showed that while total revenue reached \$1.4M, wine had the highest returns at \$680.8K. The analysis also highlighted customers' purchasing behavior, with store purchases leading at 13.0K and online purchases at 9.2K. Promotional campaigns saw varied responses, with the last campaign having the highest at 333 responses. These insights are valuable for tailoring marketing strategies, improving product offerings, and enhancing customer engagement based on distinct customer segments.





# THANK YOU!



Presented By Kareem Shaaban