# Customer Segmentation

FINDING THE MOST USEFUL CUSTOMER GROUPS FOR BANK A

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Identify most useful customer segment based on their purchasing patterns and behaviors, to tailor marketing campaigns that boost engagement and retention.

# Unveiling the Data

Data Source: Internally gathered credit card

transaction data

Data Size: 8500 customers and 18 features

across 6 months

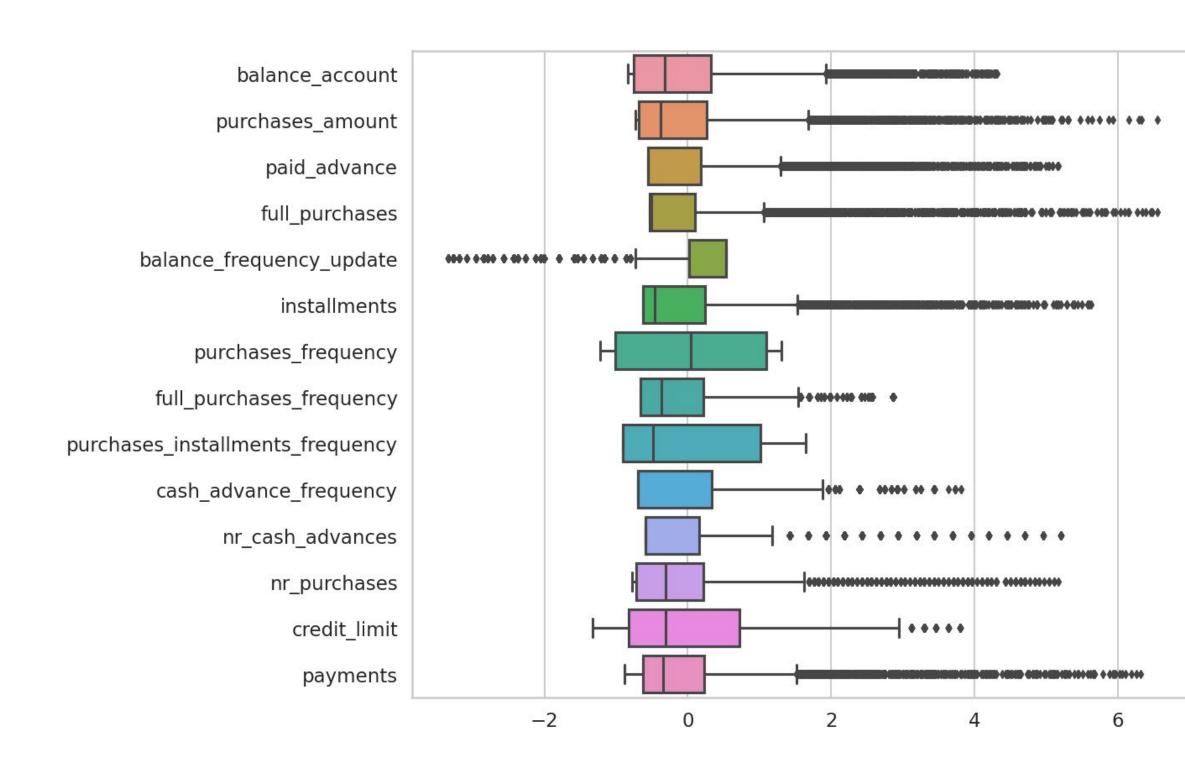
Feature types: Customer\_id (object),

17 numeric features (int64, float64)

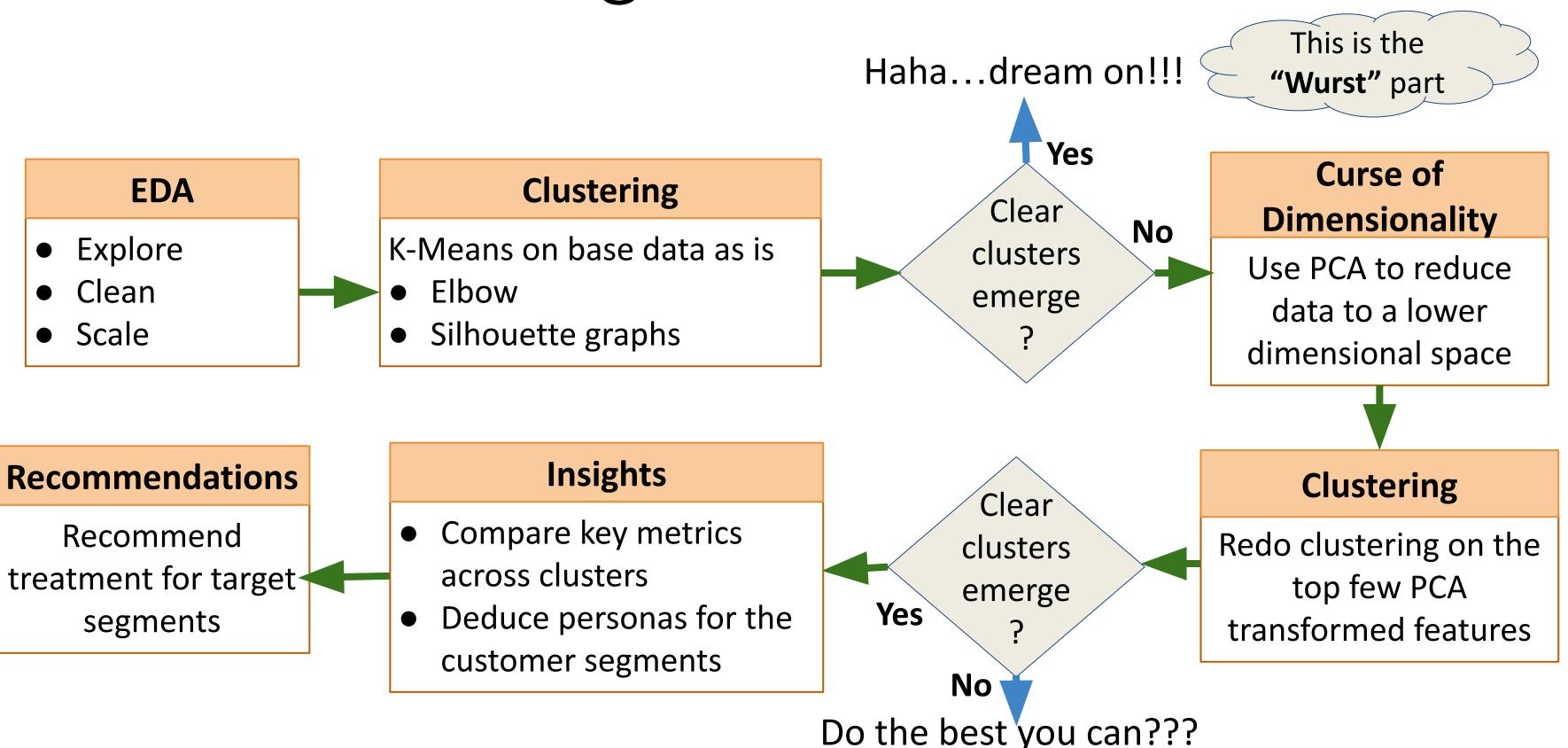
## Missing values:

- Credit Limit: 1 missing value
- Minimum Payments: 298 missing values

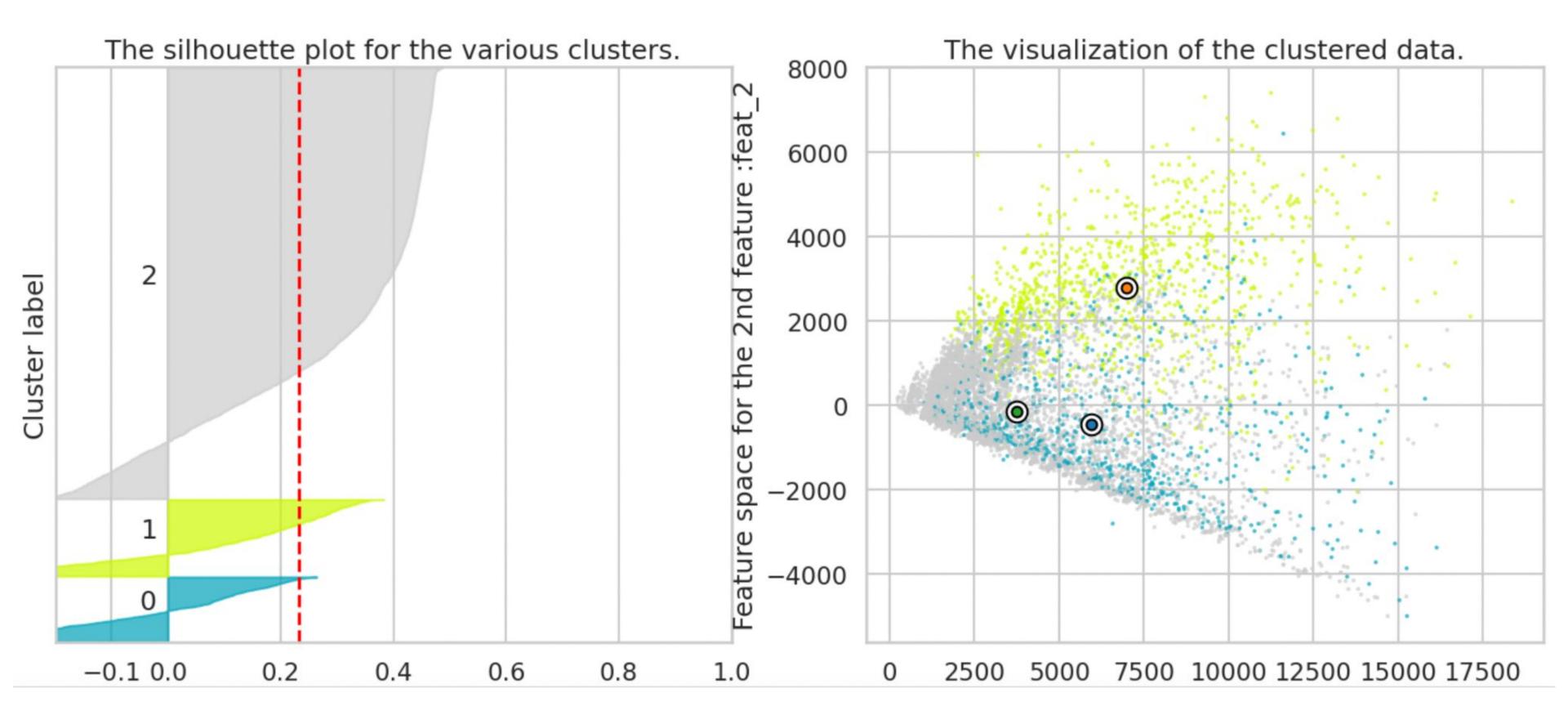
**Data Integrity:** No duplicates identified



# How the sausage was made...



# Visual of final clusters...



## **Segment 1: Yuppies**

Young, upwardly mobile professionals with a high income and a propensity for spending.

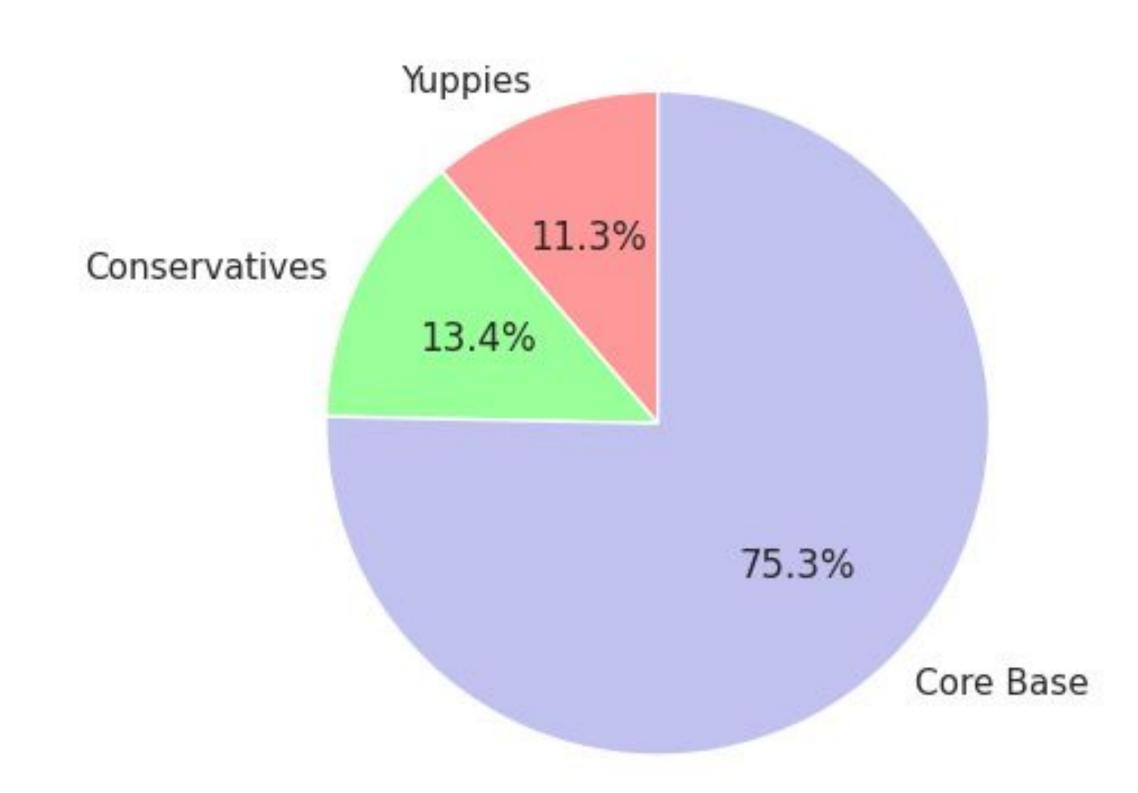
## **Segment 2: Conservatives**

Cautious spenders who mostly pay off balances in full. They have a preference for cash advances and have low credit utilization rate.

## **Segment 3: Core Base**

Stable and reliable customers who form the foundation of the customer base.

# Customer Segments

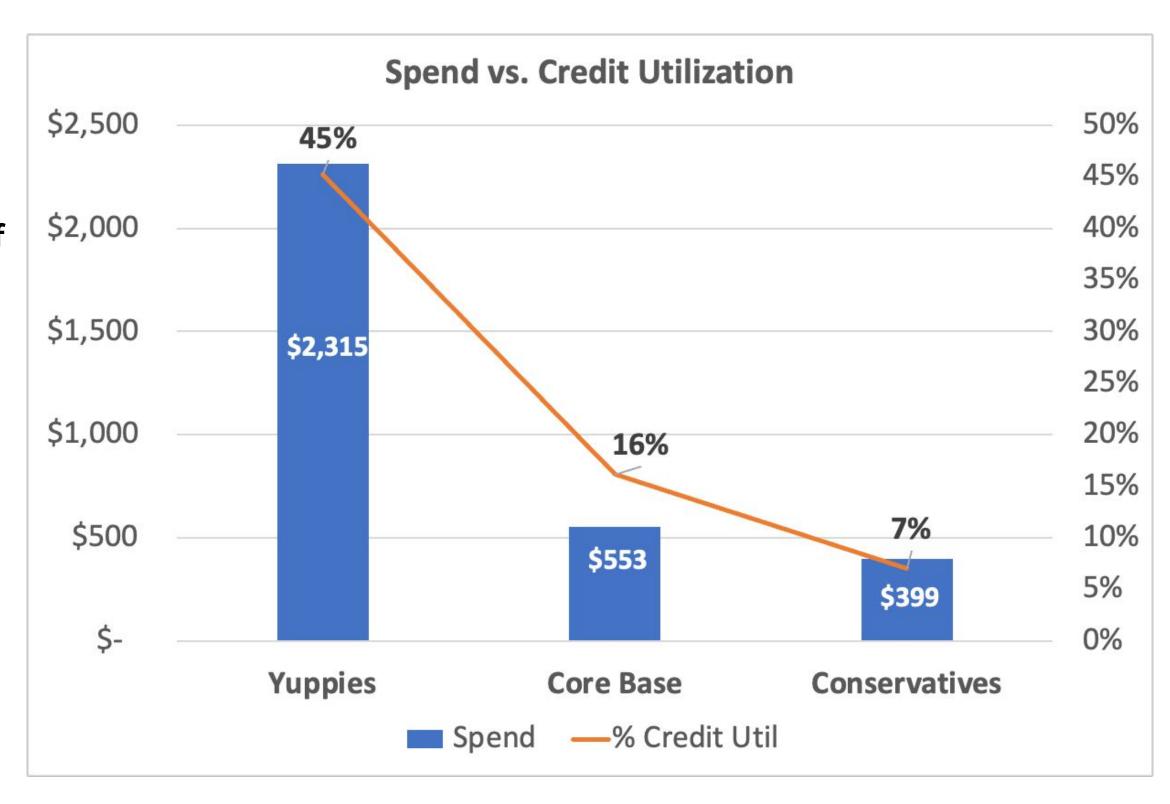


Spending Habits and Credit Limits of Our Customer Segments

## **Highlights**

"Yuppies" are the highest spenders (4-5x of the other segments) and use up the highest % of their credit limits (3-7x of the other segments).

There is a huge amount of unused Credit
Lines on the Conservative (93%) and Core
(84%) customer segments. This locks up
capital for the Bank that can otherwise be
put to more productive use.

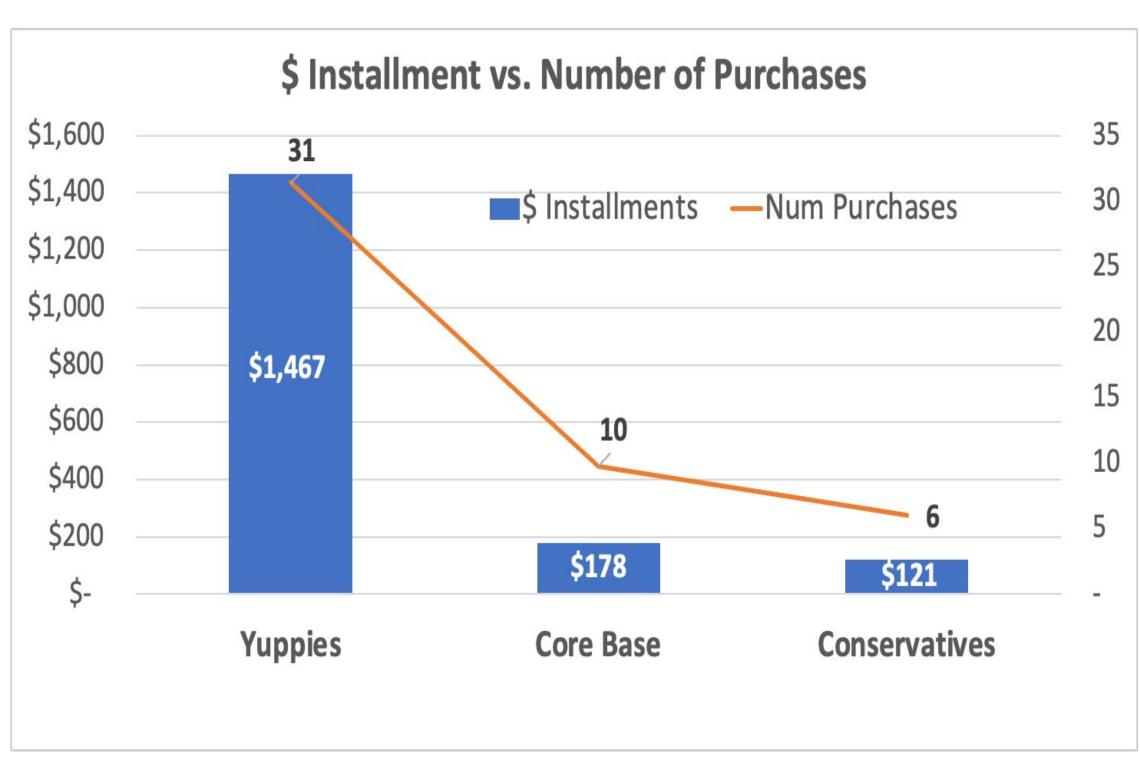


Spending Habits and Credit Limits of Our Customer Segments

# Highlights

"Yuppies" make the highest purchases in installments (8-11x compared to the other segments). Installment purchases generate interest revenue for the bank and therefore makes the Yuppies the most profitable segment.

The yuppies also spend **3-5x more frequently** as the other segments.

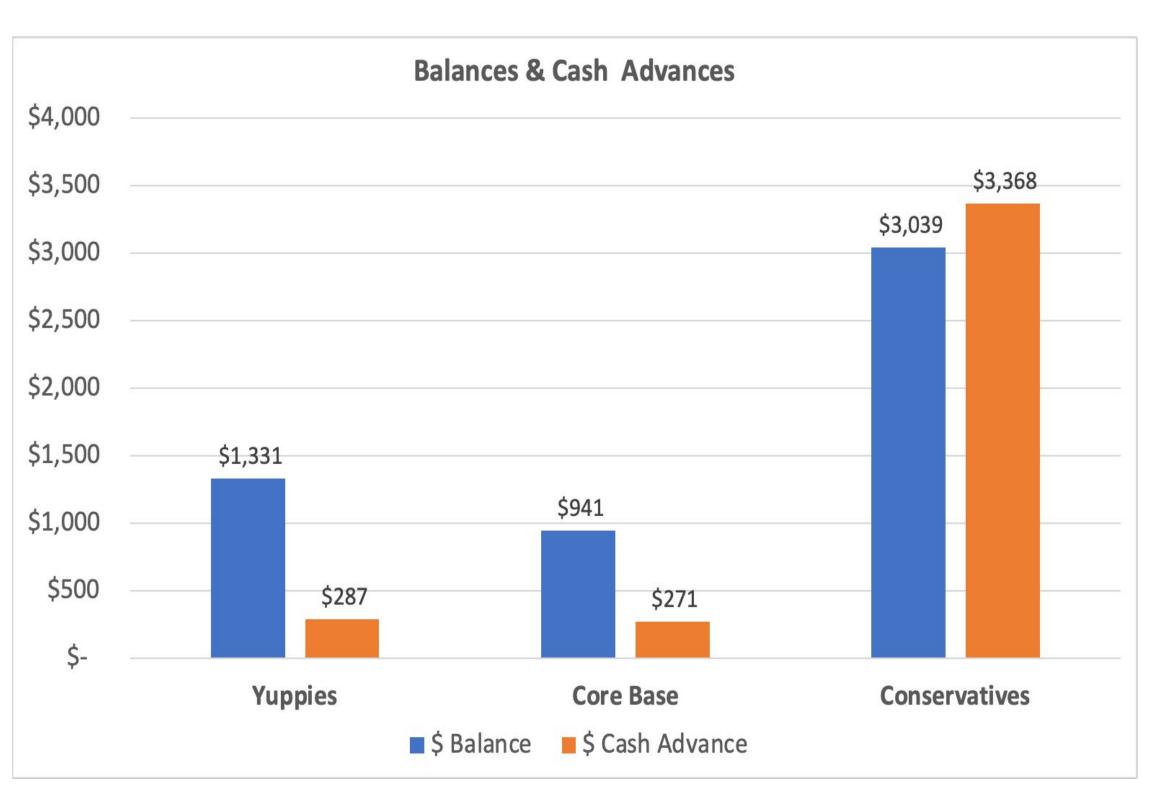


Spending Habits and Credit Limits of Our Customer Segments

# Highlights

"Conservatives" take 11-12x more cash advances on their credit card as compared to other segments.

The largest portion of the balance on their accounts is due to the cash advances rather than actual purchase/spend on the card.



# Strategy for the "Conservatives"



#### **Reduce Credit Limit**

Free up capital and redeploy it on growth or higher credit limits for the Yuppies



### **Education**

Educating about the benefits of using debit cards



#### **Cross Sell Debit Cards**

Offer an alternative payment option that aligns with their preference for cash transactions.

# Unlocking the Potential of Our Most Profitable Customer - "Yuppies"



#### **Increase Credit Limit**

Facilitate larger purchases and maximize spending power for this lucrative segment.



## **Rewards Programs**

Implement rewards programs and cashback benefits that align with their purchasing habits.



## **Personalized Campaigns**

Tailored marketing campaigns that resonate with their unique interests and preferences.