CREDIT EDA CASE STUDY

BY

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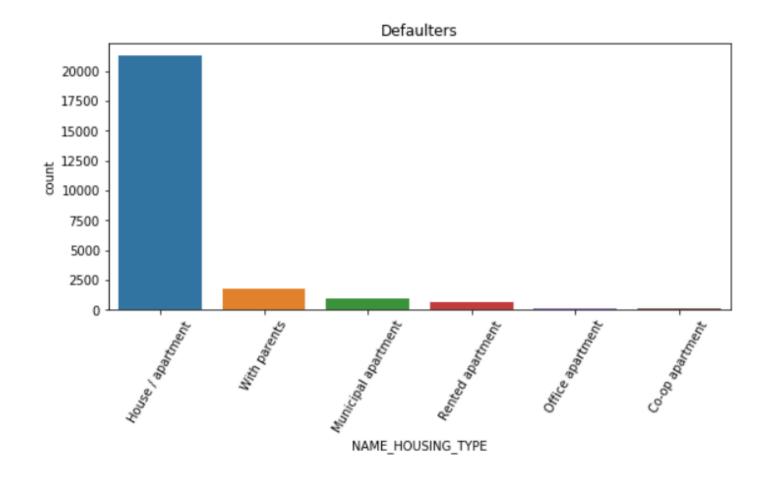
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DS C29

Current Application Analysis

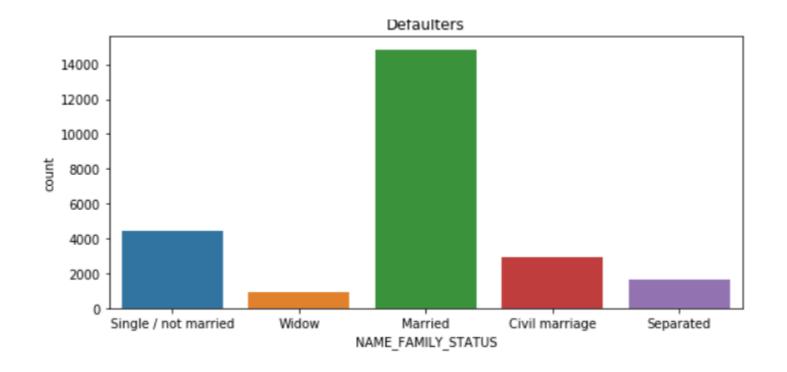
Defaulters by housing

- 1. People who are living in individual house or apartments are high in numbers for defaulters.
- 2. People who are living in rented or municipal apartment are very low in numbers for defaulters.
- 3. People who stays in office or Co-op apartment are almost not there for defaulters due to may be they have enough income to pay back.

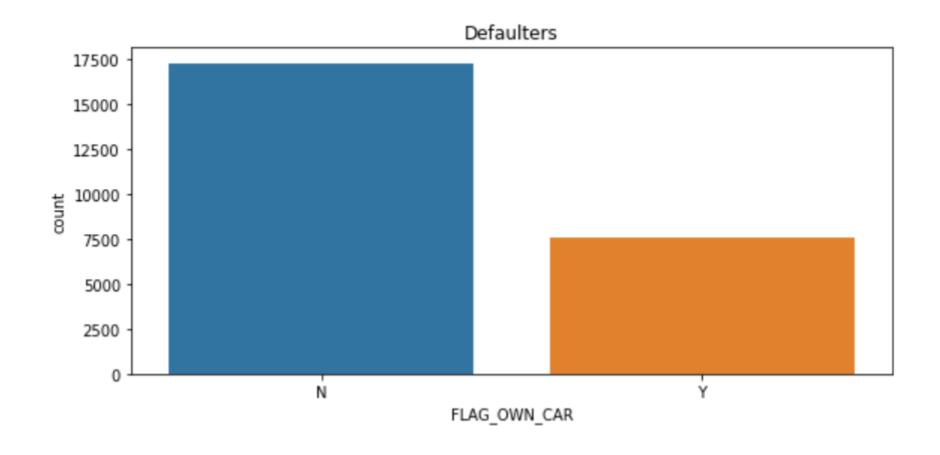


Defaulters by family status

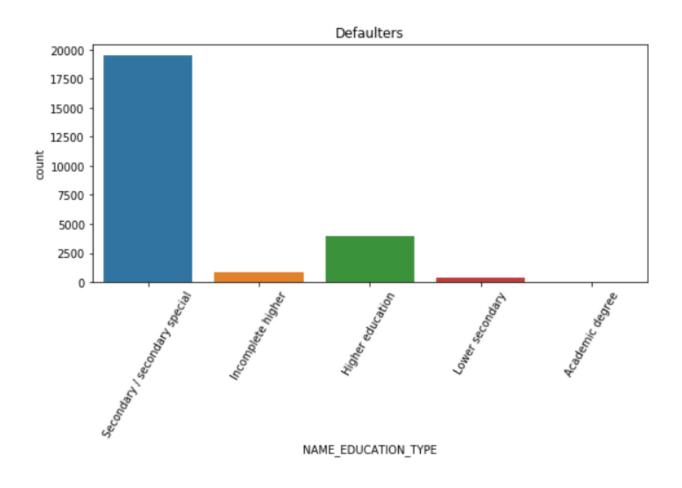
Married people are higher in numbers in defaulters.



Defaulters by car ownerPeople who own a car are lower in numbers for loan defaulters.



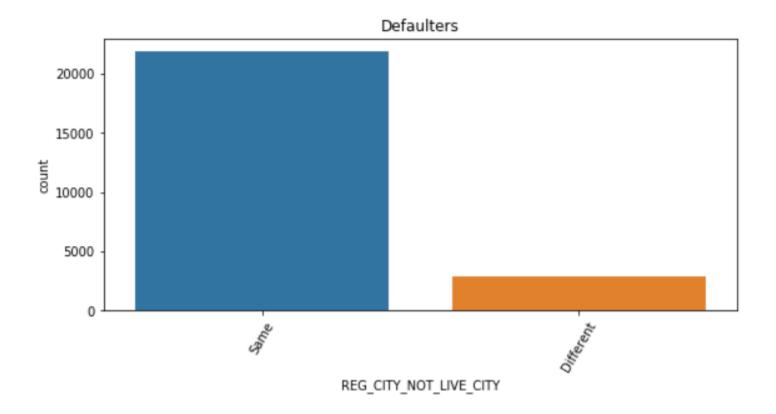
Defaulters by education typePeople with secondary/secondary special education are more in numbers for loan defaulters.



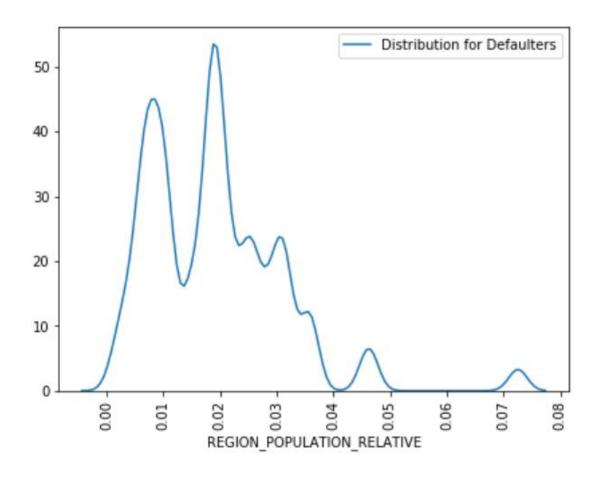
Defaulters by address

Those whose permanent address does not match with contact address is proportionally higher in defaulted population as compared to non defaulted population.

The reason might be that they do some fraud.

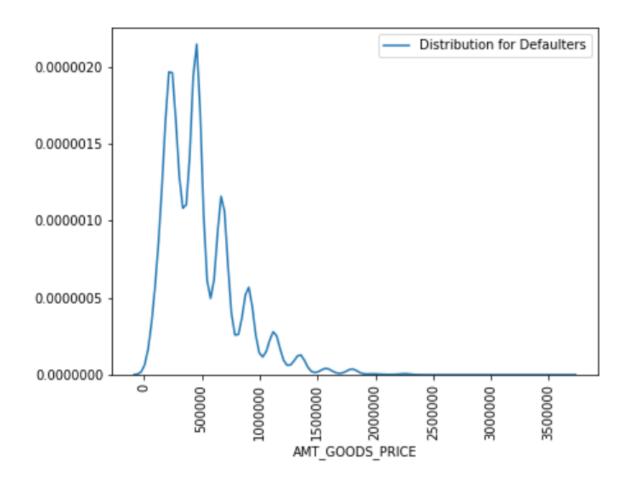


Default by Population density regionPeople who are living in higher density areas are tend to lesser defaults.



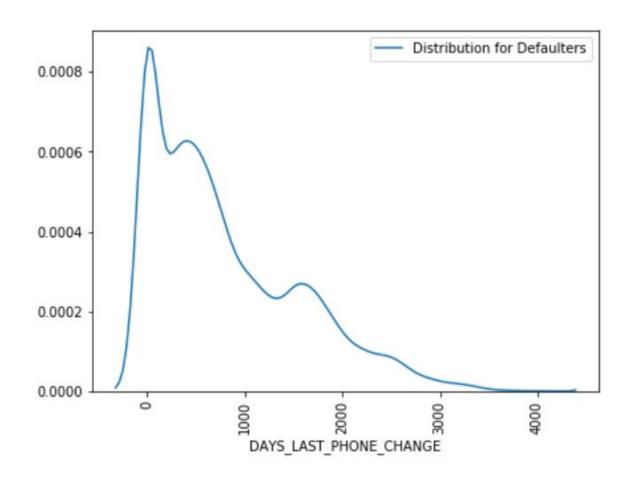
Defaulters by goods price

Defaults are higher for amount of the goods for which the loan is given is less.(between 0 to 500000)



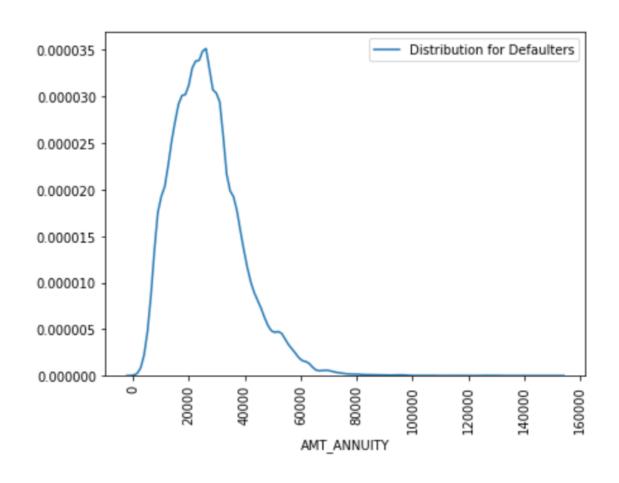
Default by days last phone change

Defaulters are more in case days since last phone change is less.

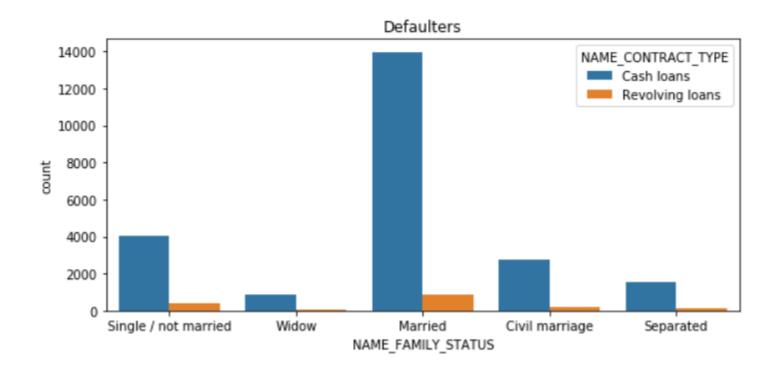


Defaulters by annuity amount

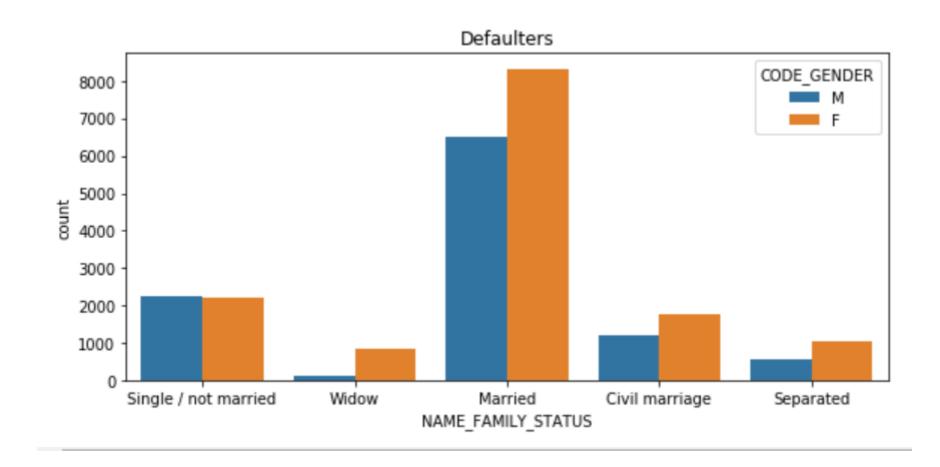
or AMT_ANNUITY between 20,000-40,000, defaulters are more



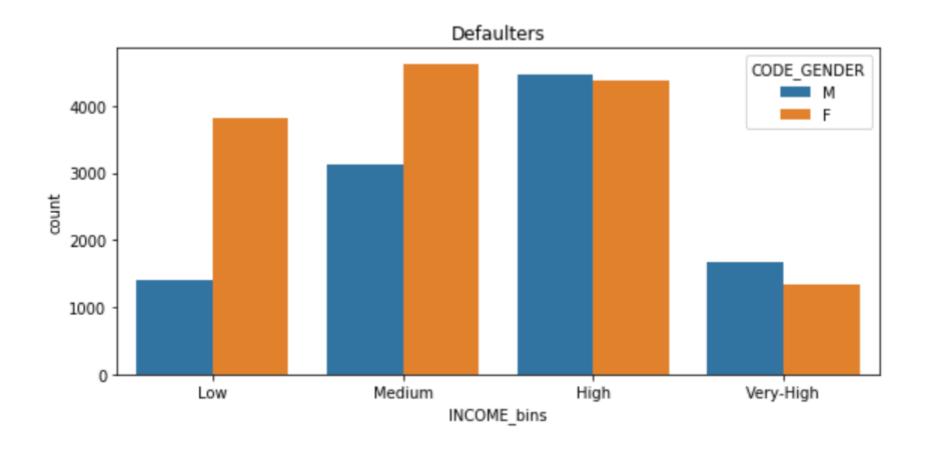
Clients who are married and are having cash loans has higher % of loan payment difficulties. Overall for any family status cash loans have more percentage of payment difficulties.



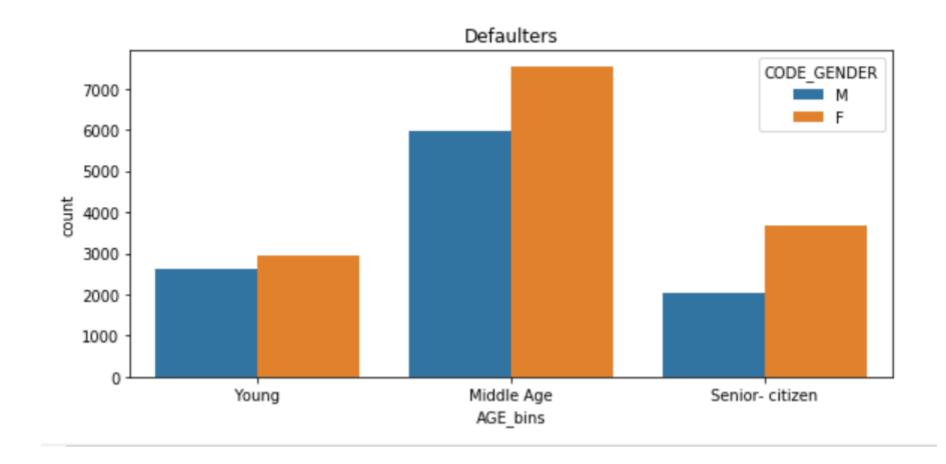
Female Clients who are married have maximum % of Loan-Payment Difficulties. For single/not married status male and female Loan-Payment Difficulties is almost same.



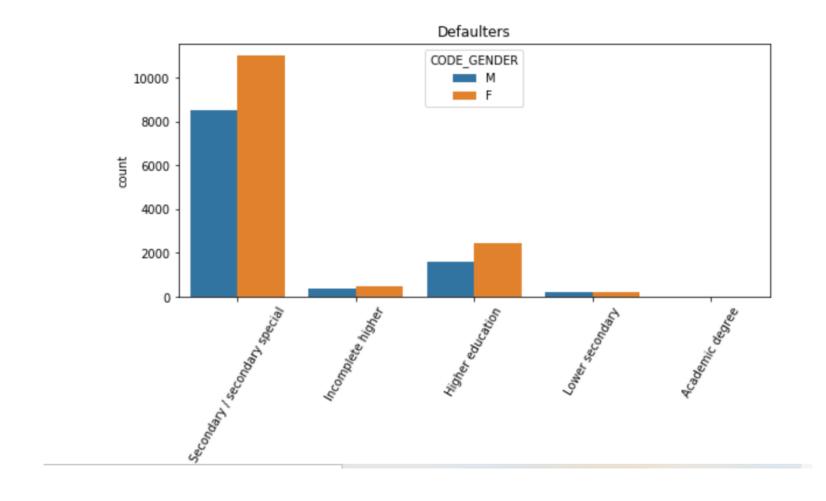
Female Clients who have income Low and Medium income have maximum % of Loan-Payment Difficulties when compared to Male clients.



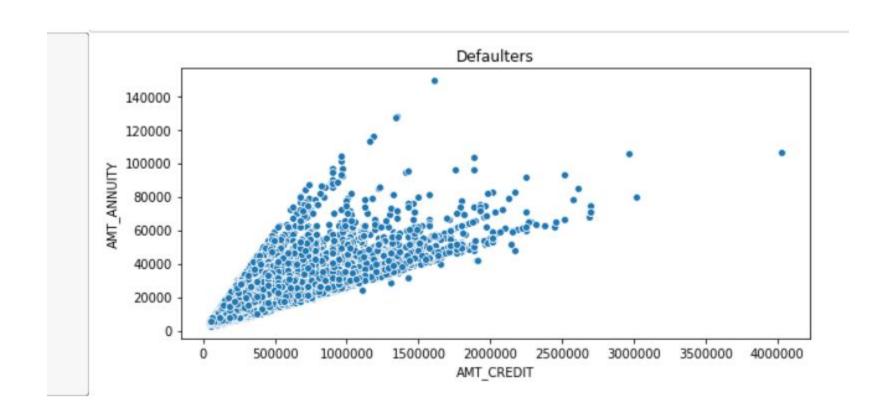
Middle Age Male and female are more in defaulters compared to young and senior citizens.



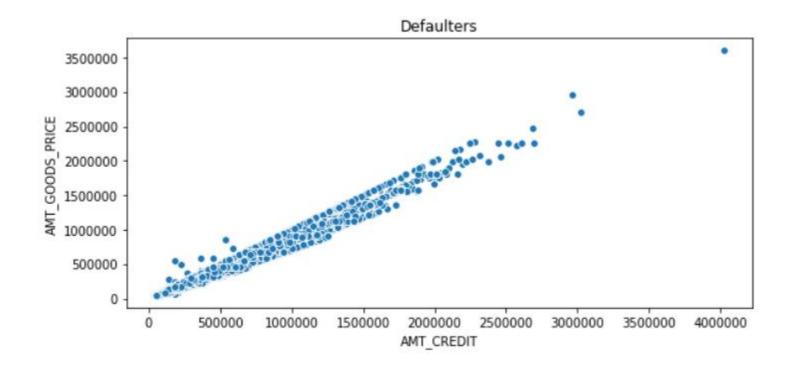
Female and male clients with secondary/secondary special are more in defaulters however with higher education is less in defaulters



There is a good correlation between AMT_CREDIT and AMT_ANNUITY.

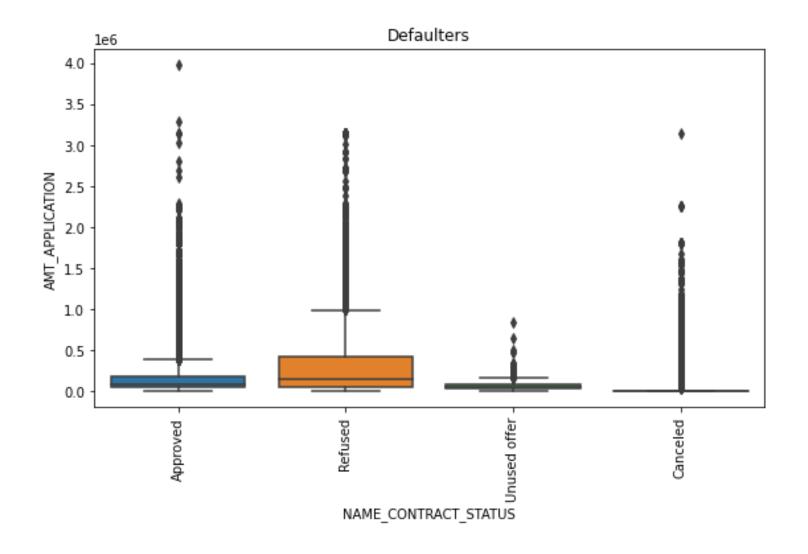


We observe that there is a strong correlation between AMT_CREDIT and AMT_GOODS_PRICE. There are some outliers in both the cases.

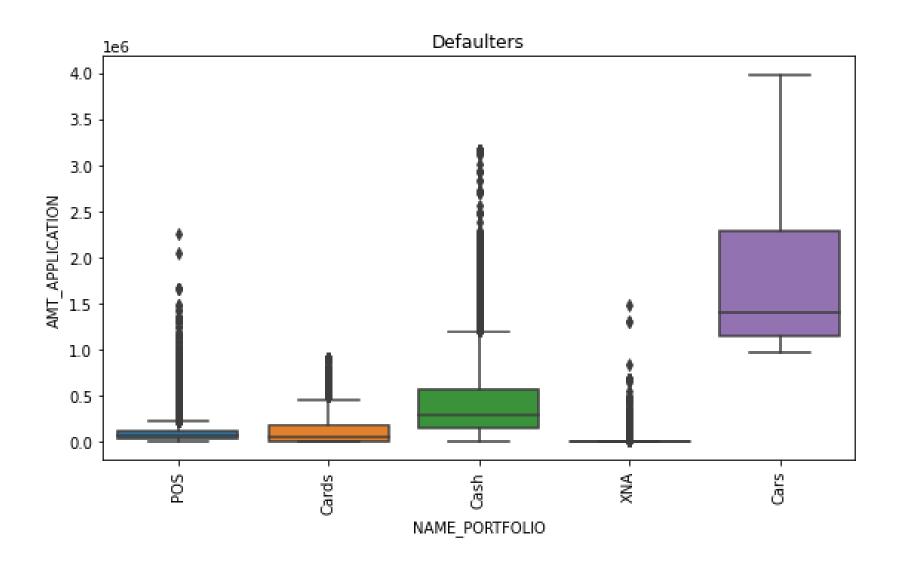


Previous Application Loan Analysis

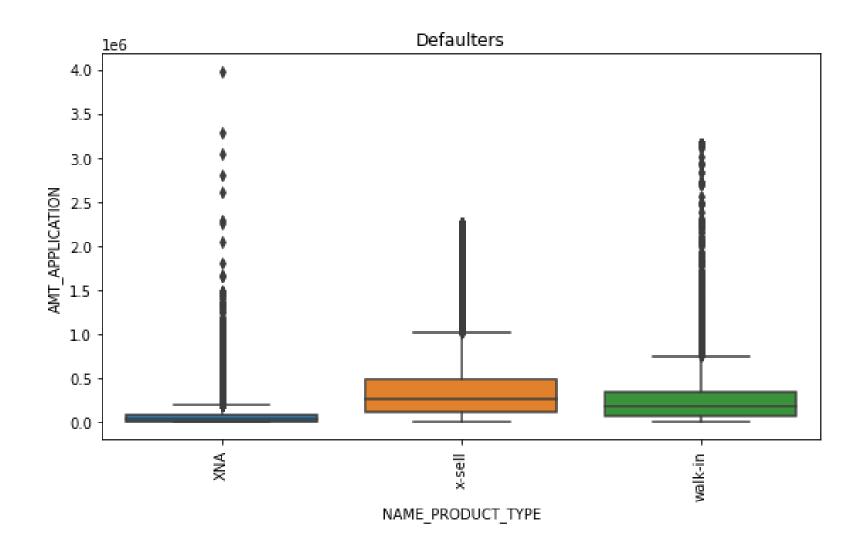
We observe the amount of loan applied for in the previous application was high among defaulters who were refused the loan.



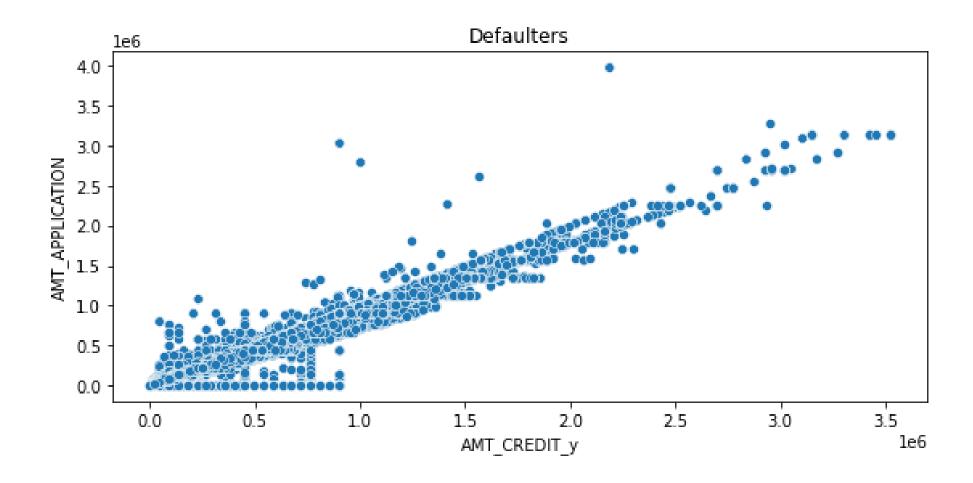
Among defaulters, we see that the range of amount applied for in the previous application is more for car loans.



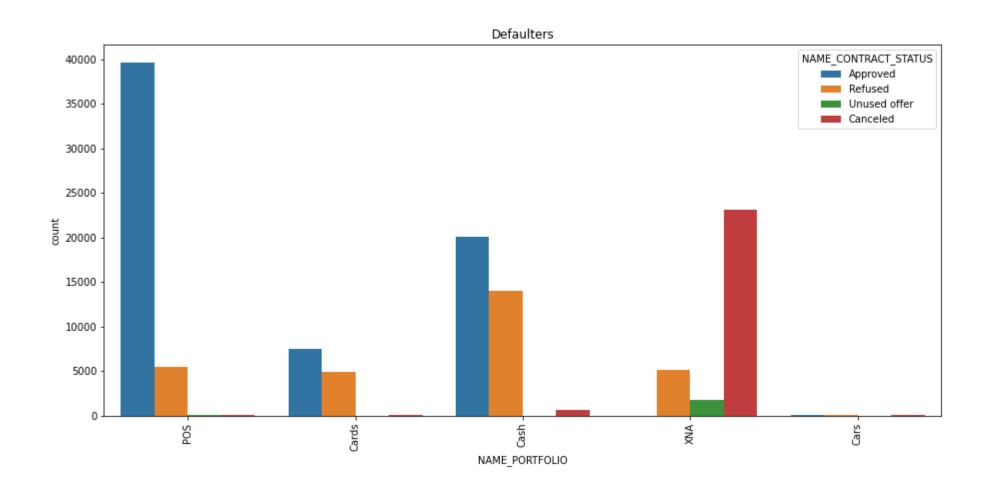
We observe the range of amount of loan applied for in the previous application was high among defaulters who were existing customers of the bank.



We can see a direct correlation between the amount of application and the amount of credit for the previous loan.



Most of the defaulters were customers whose previous loans for POS were approved. Many of the defaulters who did not mention the purpose of the loan cancelled their previous loans.



Recommendations for loans

- Clients having high income category
- Clients with higher educations
- Senior –citizen clients or young clients
- Clients who are not married
- Clients owning car
- Clients who previously applyied for loans with high interest rates

Risky for loan

- Clients refused previous loan
- Clients applying for car loans
- Clients contacted through country-wide channels
- Clients whose previous application was of x-sell type