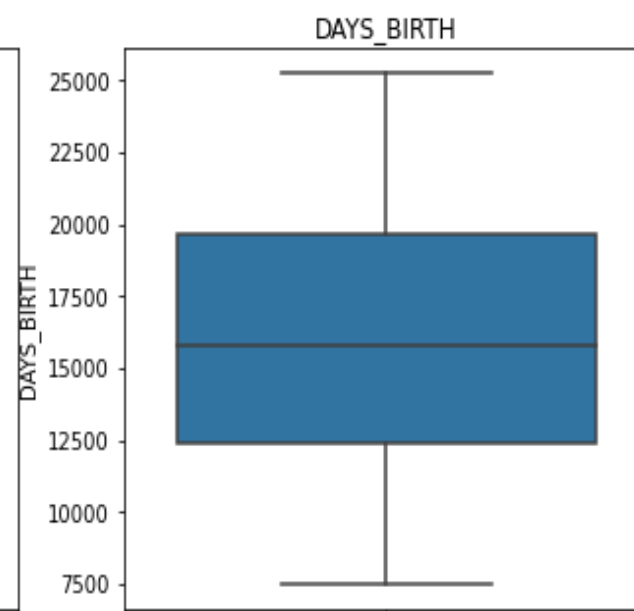
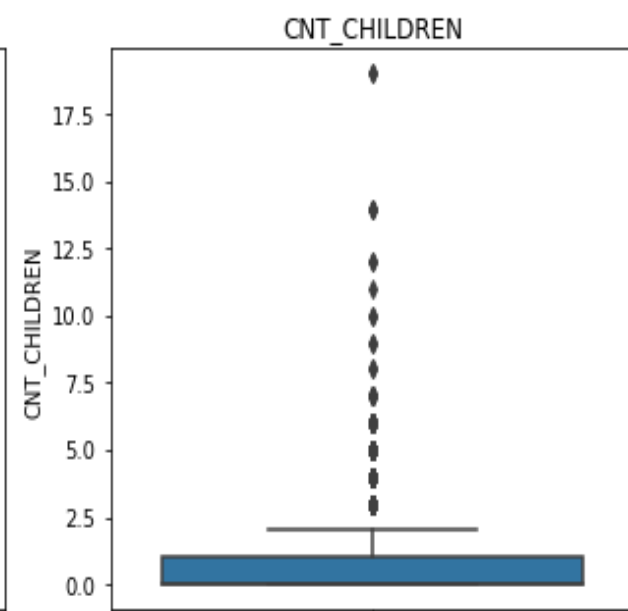
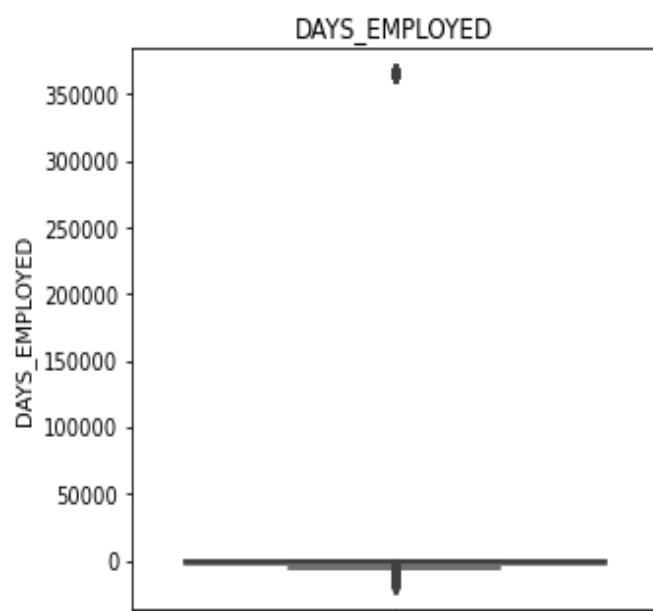
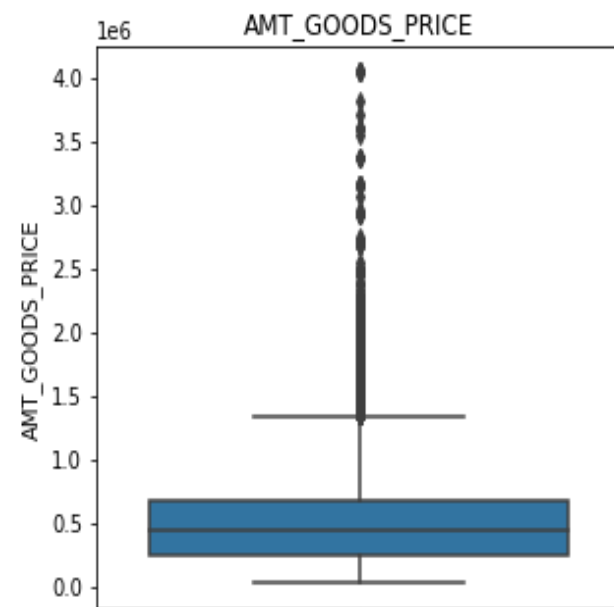
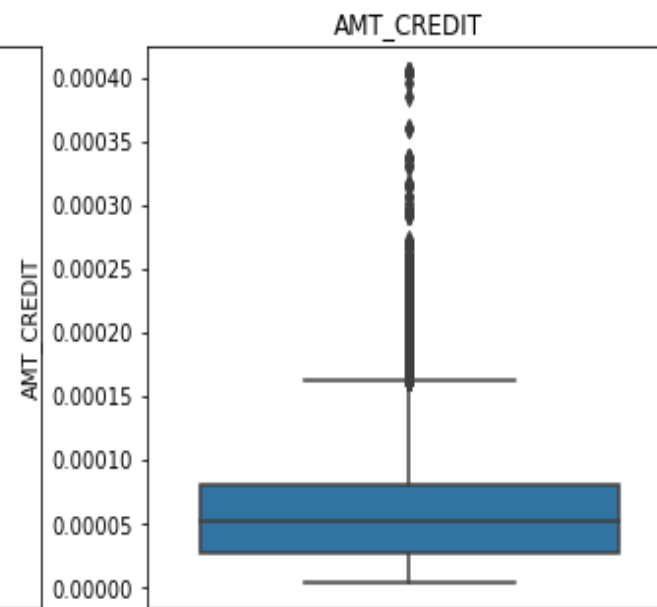
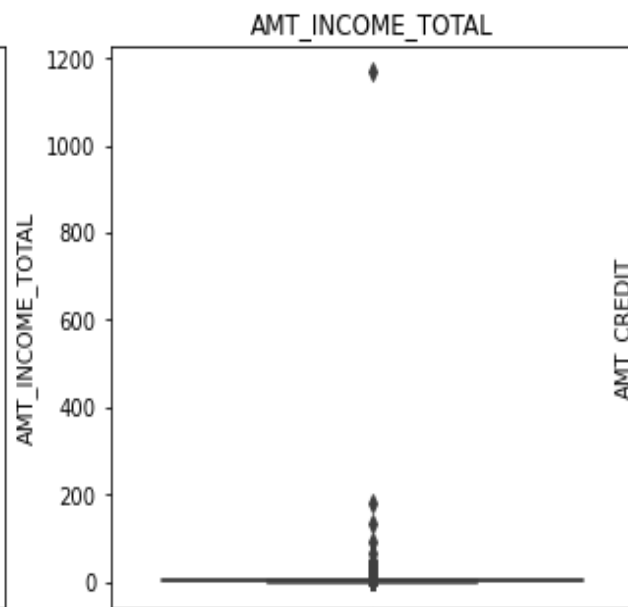
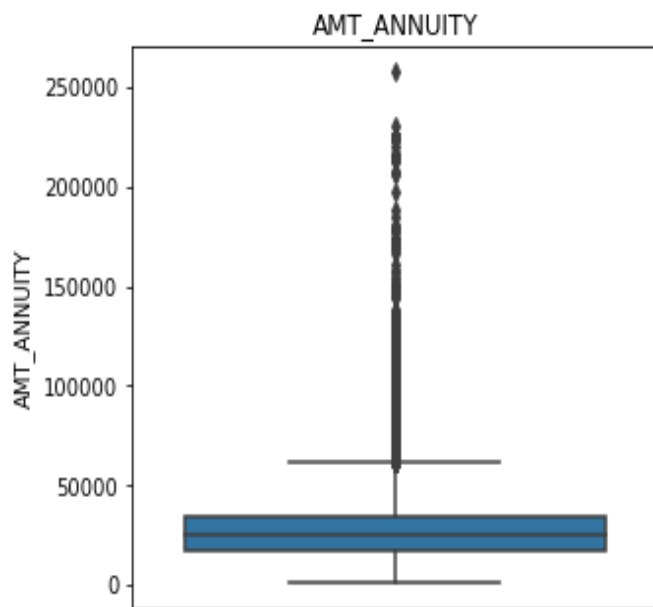


EDA Credit Assignment

BY-ANUJA MORDE.

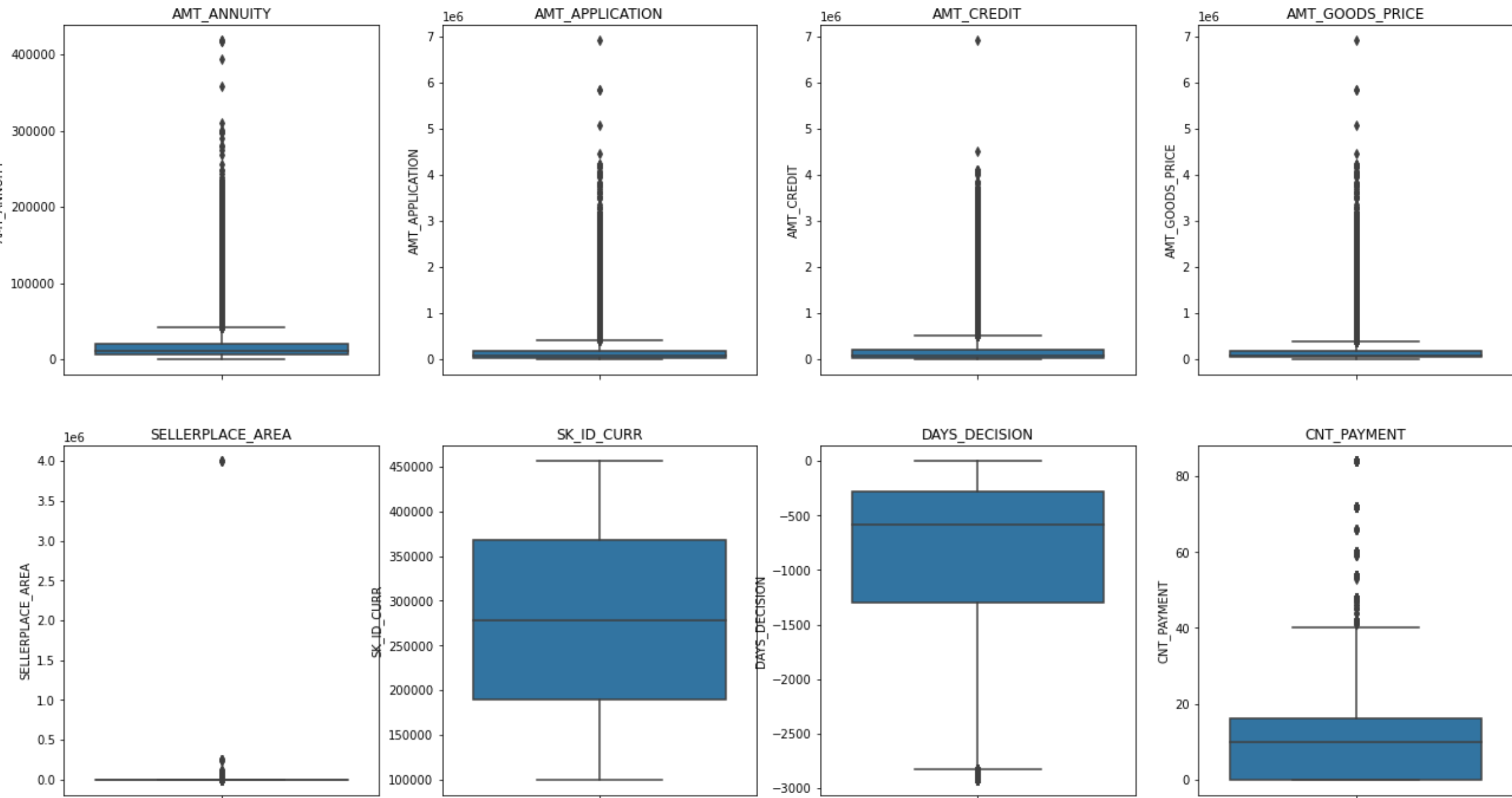
Outliers in application dataset



Inference on outliers of application dataset

- AMT_ANNUITY,AMT_CREDIT,AMT_GOODS_PRICE,CNT_CHILDREN has outliers.
- DAYS_EMPLOYED entry is incorrect as it has outliers having value 36452 days
- AMT_INCOME_TOTAL has outliers in huge, it states that applicants has high income.
- DAYS_BIRTH has no outliers.

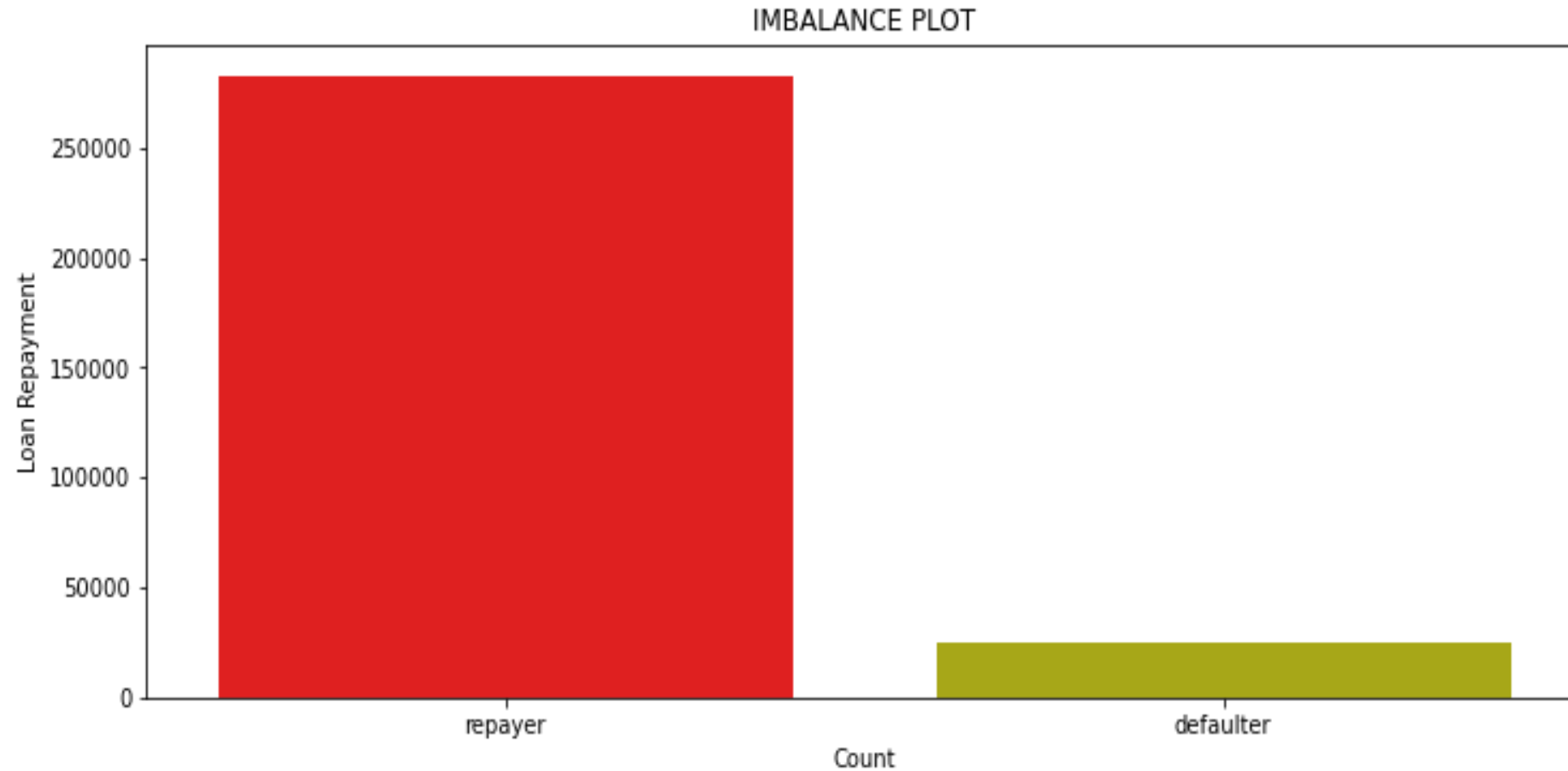
Outliers in Previous data set



Inference on outliers of previous dataset

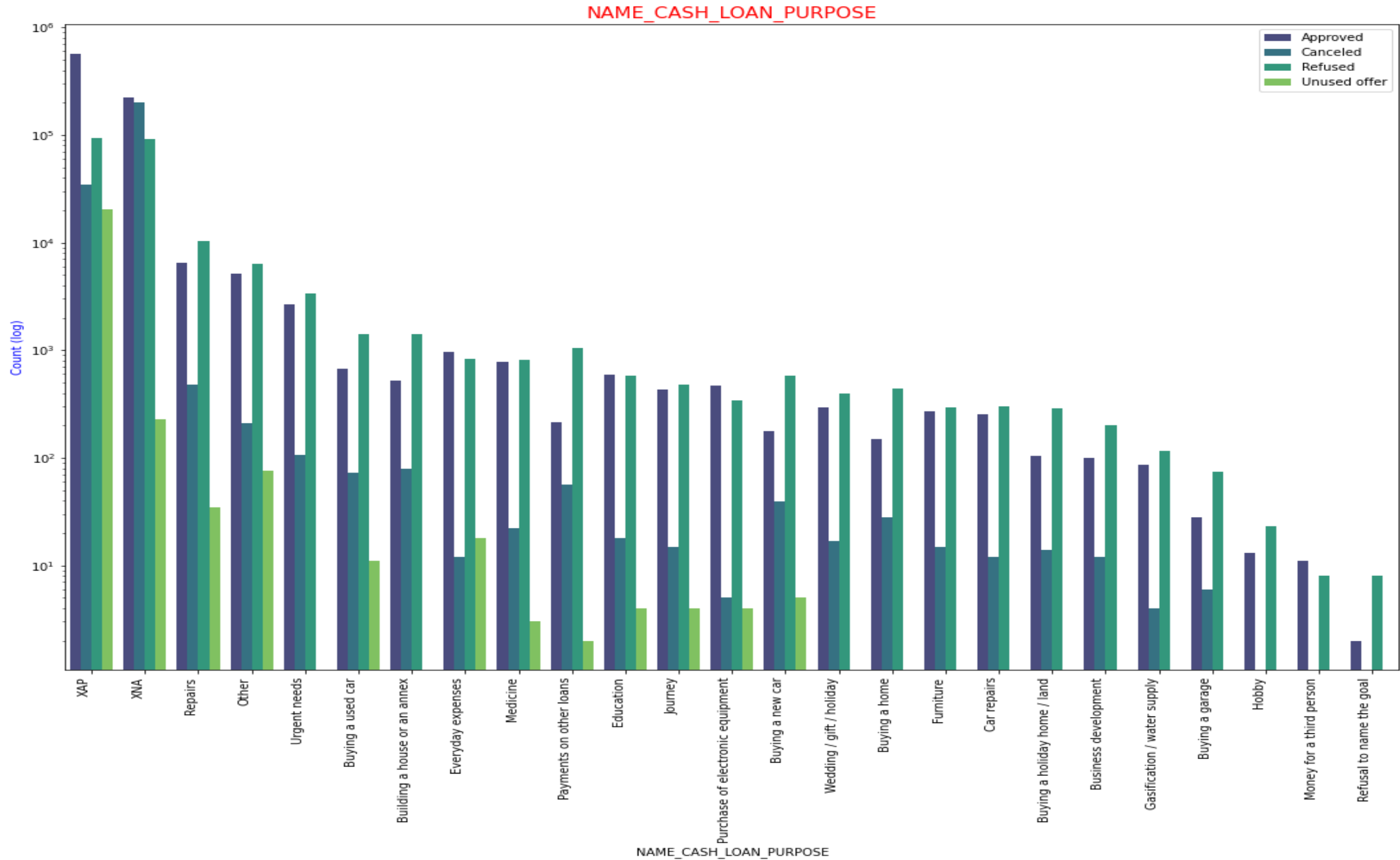
- CNT_PAYMENT has less outliers
- AMT_APPLICATION,AMT_CREDIT,AMT_ANNUITY,SELLER_PRICE,GOOD_PRICE has huge number of outliers.

Imbalance ratio of repayer and defaulter



- Ratio of imbalance in percentage of REPAYER is 91.93%
- Ratio of imbalance in percentage of DEFAULTER is 8.07%

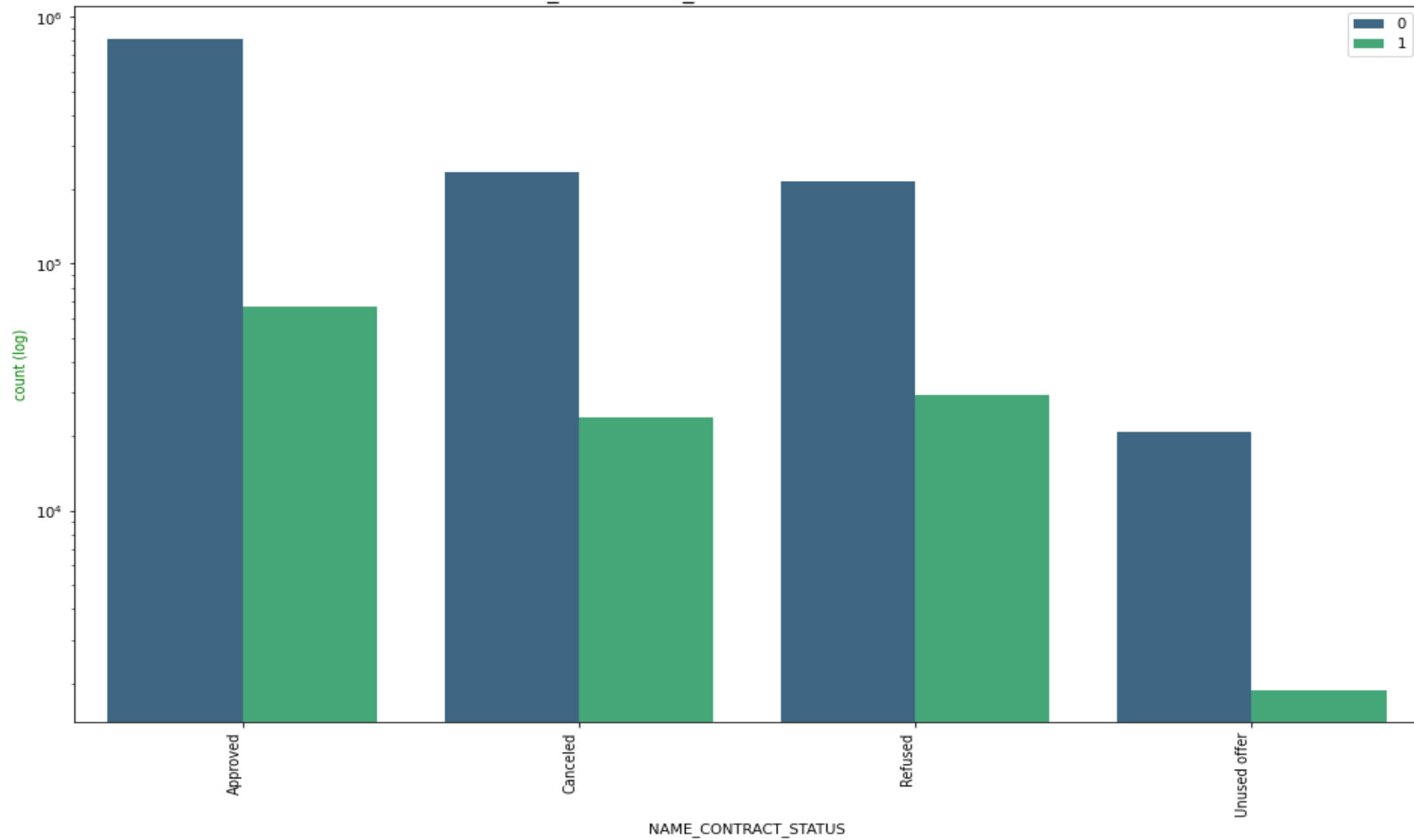
Analysis after Merging Data



Inference on NAME_CASH_LOAN_PURPOSE

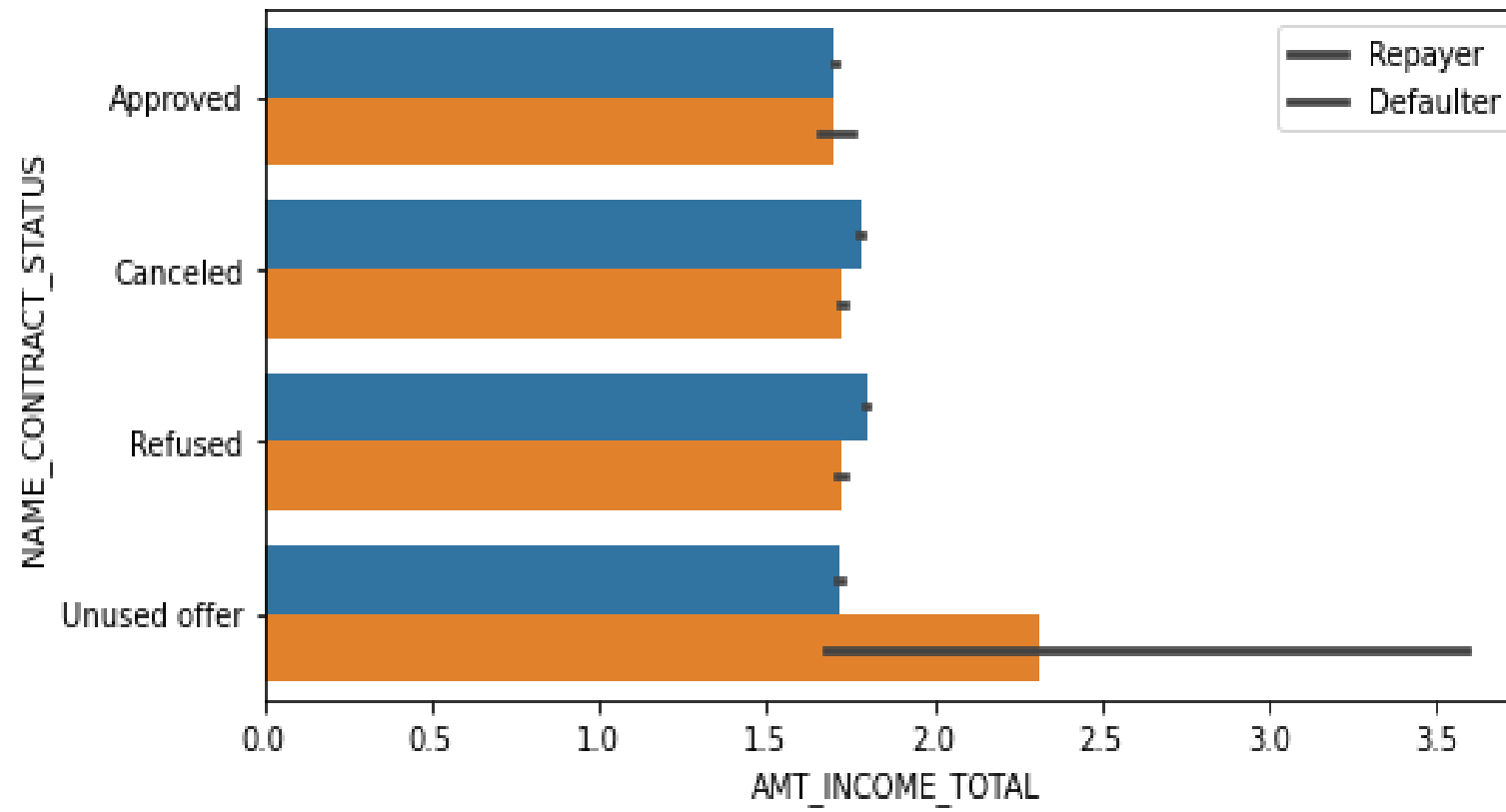
- Highest default rate is seen when loan is taken for the purpose of repairs.
- It has a high number of unknown values.
- A high number of applications has been rejected by bank or refused.

NAME_CONTRACT_STATUS with TARGET as hue

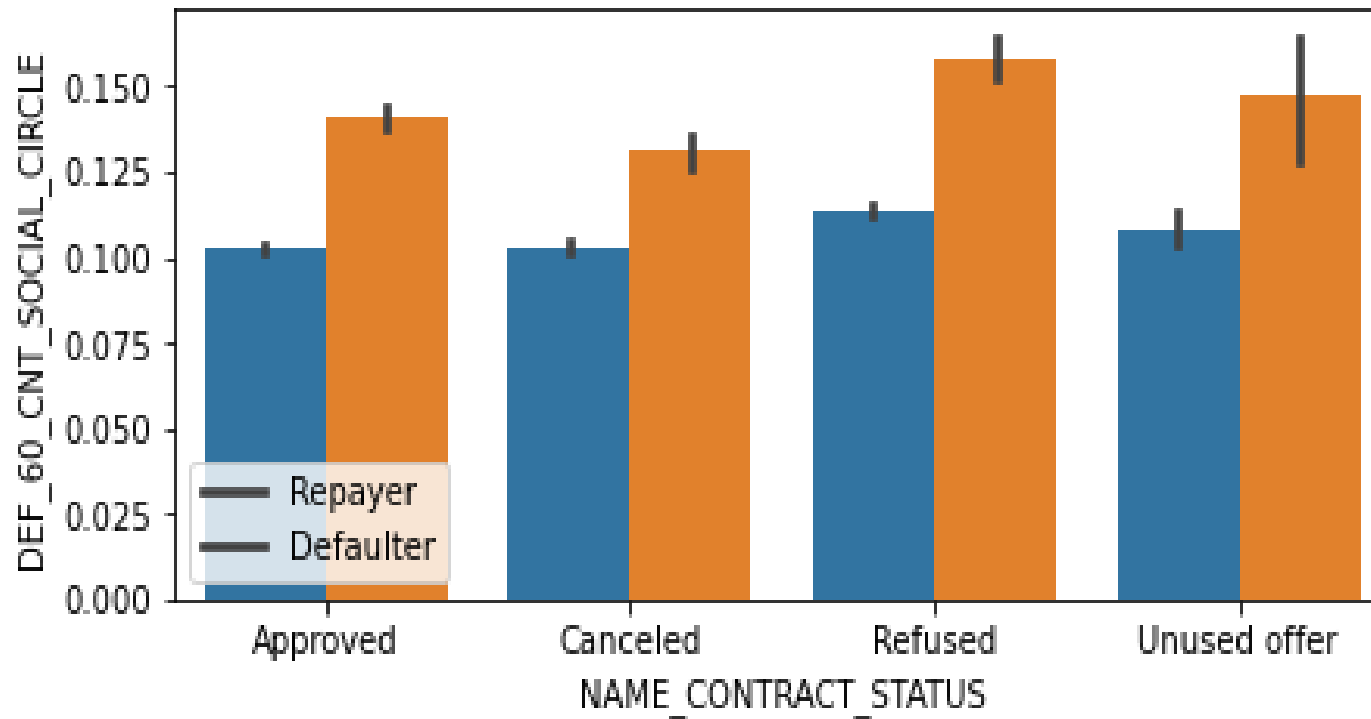


Inference on NAME_CONTRACT_STATUS

- The rate of earlier cancelled client is 90%.
- The 88% rate of earlier refused loan has repayed the loan.



- The above plot says people who has earlier not used offer have defaulted even though income is high.



- The above plot shows who defaulted between CONTRACT_STATUS and SOCIAL_CIRCLE.

CONCLUSION

- There are few attributes of customers that bank would be able to decide if they will repay the loan or not.
 - Factors whether customers will be able to repay the loan.
- Days Employed- customers who has more than 50 years of experience.
- Name income type – businessmen are less tend to default the loan.
- Name education type- degrees has less defaults.
 - Factors whether customers will not be able to repay(defaulters)
- Occupation type- labours , drivers and customers with low income.
- Amt good price- credit amount exceeds 4m.
- Days birth- young people should be excluded for loans.

THANK-YOU