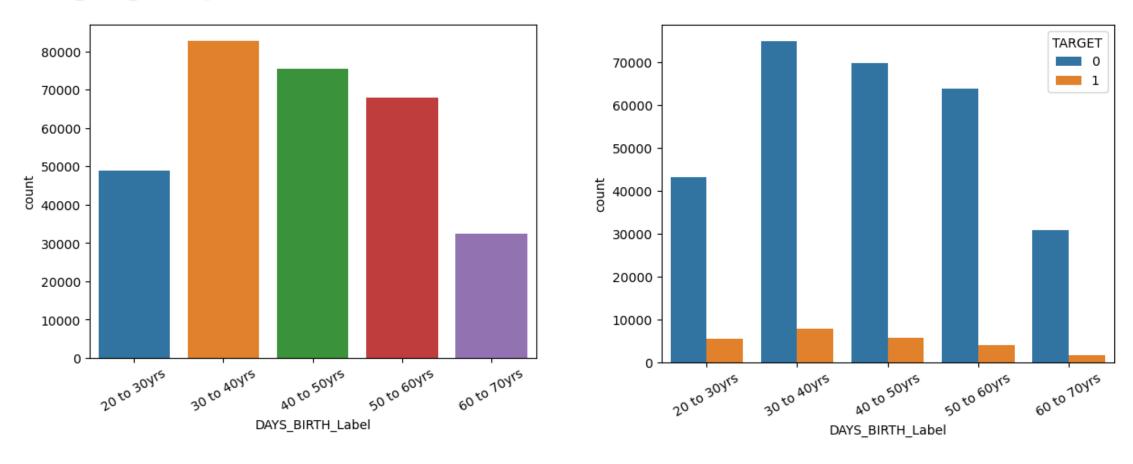
EDA Assignment

By Bharat Panera

Age group



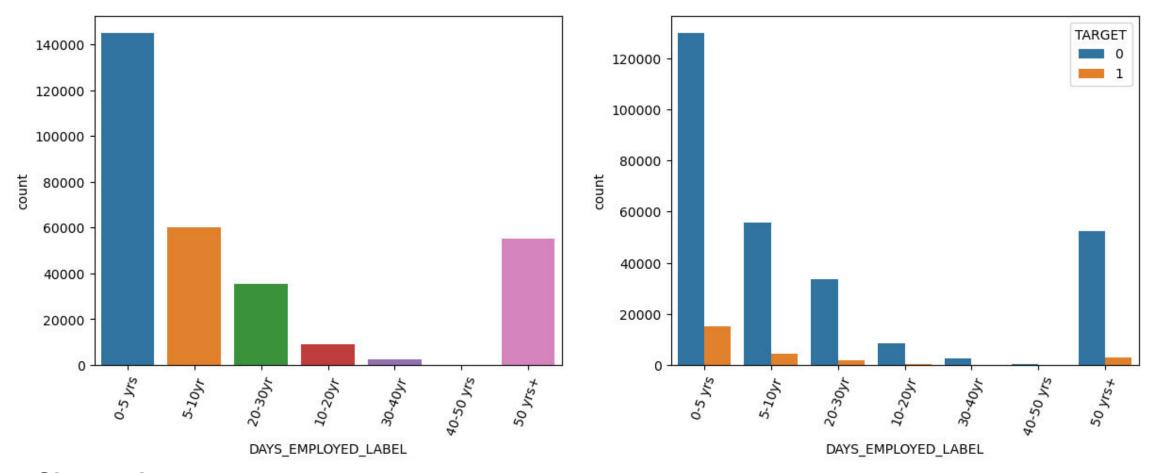
Observations:

- 1. Most loan applicants are aged between 30 and 60.
- 2. The peak age for applicants is 30 to 40.

Recommendations:

1. It is safer to focus on 30 to 40-year-olds for loans.

Employment group

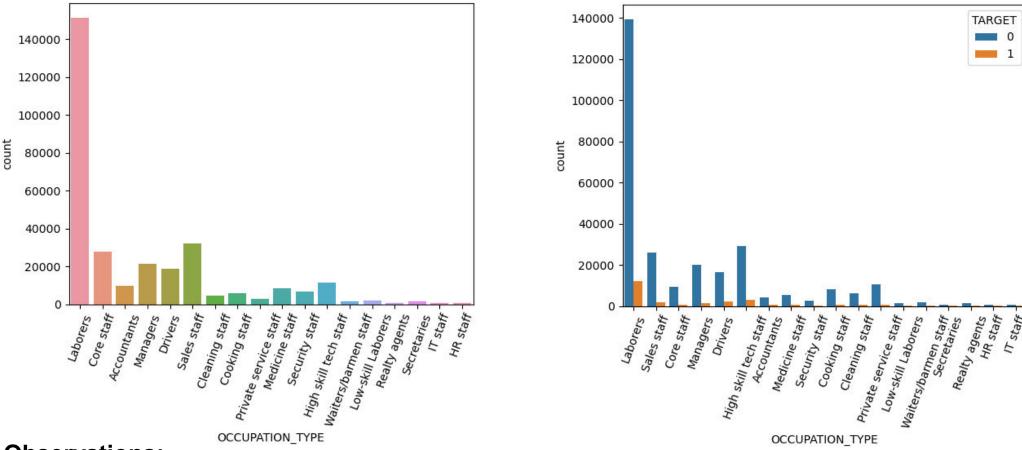


Observations:

- High default rate among those with 0-5 years of employment with more loan application.
 Default rates decrease with more work experience.

- Prioritize loans for those with 5-10 years of employment for lower defaultee rates.
 It is recommended to grant loan to group of people with more work experience.

Occupation type



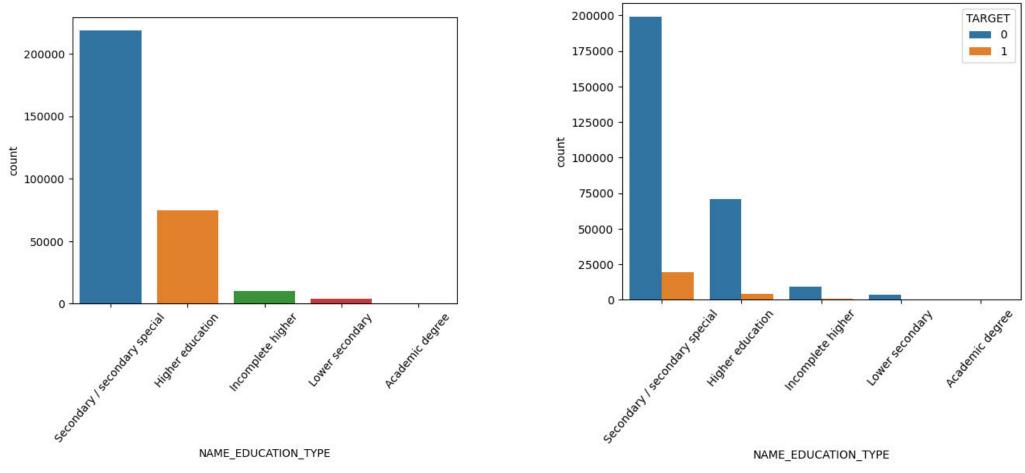
Observations:

- Labourer is the most common occupation among clients, followed by sales staff, core staff, and managers.
- 2. Labourer occupation have the highest loan default rate.

Recommendations:

1. It is recommended to grant loans to people with occupations as labourers and sales staff.

Education qualification



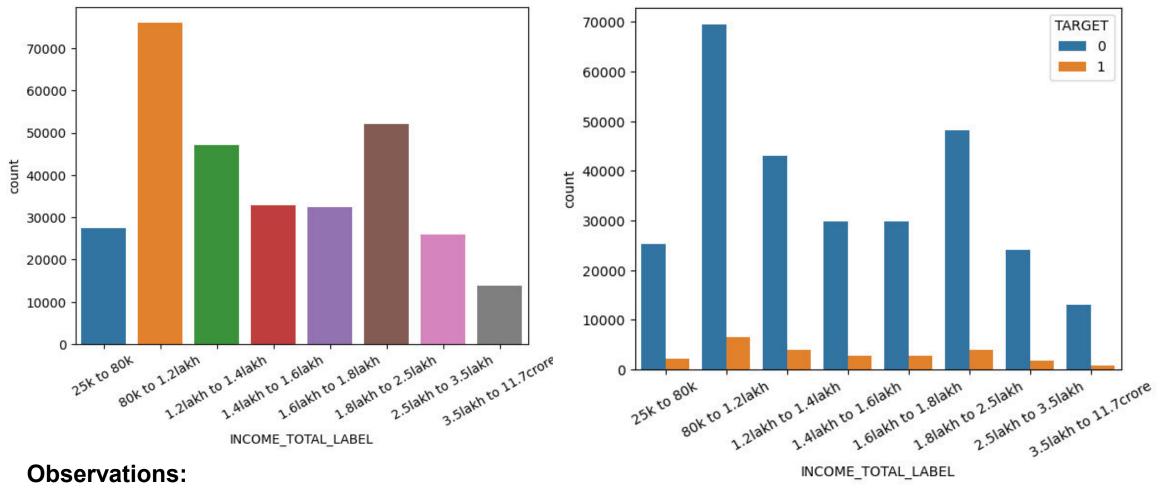
Observations:

1. Majority of people applying for a loan have completed their secondary education.

Recommendations:

1. It is recommended to grant loans to individuals who have completed at least a higher education level or higher.

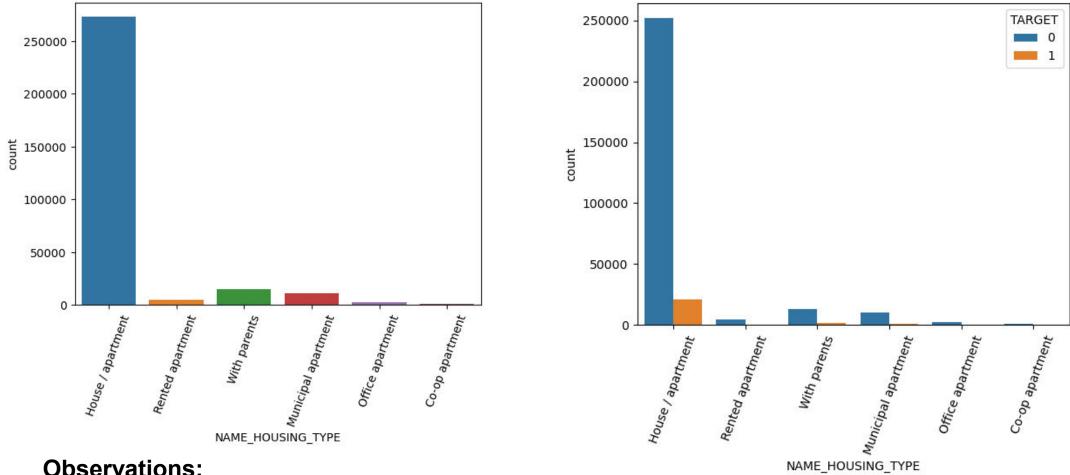
Income group



- 1. Majority of people applying for a loan is in 80k to 1.2Lakh income group.
- 2. People with high income are less defaultee.

- 1. It is recommended to grant loans to individuals who have income more than 80k.
- 2. It is risky to provide loan to the individual with low income.

Housing type

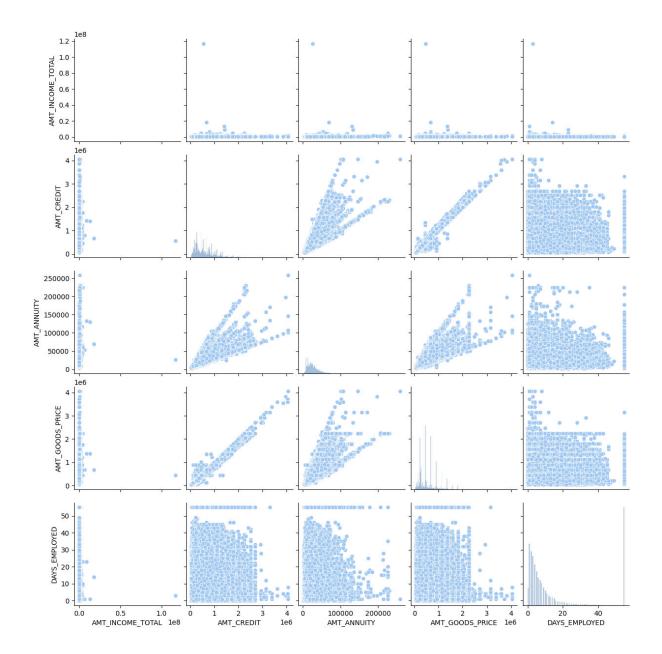


Observations:

1. It is observed that individual stays in apartment are having more defaultee rate.

- 1. It is recommended to grant loans to individuals who stays with parents.
- It is risky to provide loan to the individual who own a house or rented apartment.

Bivariate Analysis



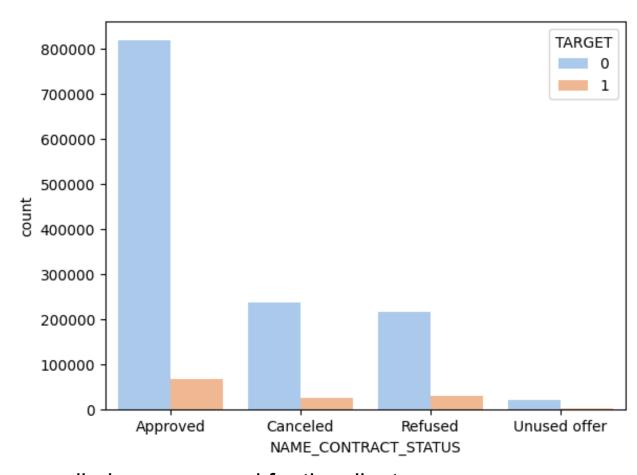
Observations:

 Higher correlation is observed between amt_annuity column and amt_goods_price column.

- 1. It is safer to grant loan to the individual having high correlation between amount annuity and amount of good price as they are more likely to be able to repay the loan.
- A strong correlation between AMT_CREDIT and AMT_GOODS_PRICE suggests clients often borrow an amount close to the price of the goods they intend to purchase.

Analysing previous loan application along with current applications.

Loan contract status



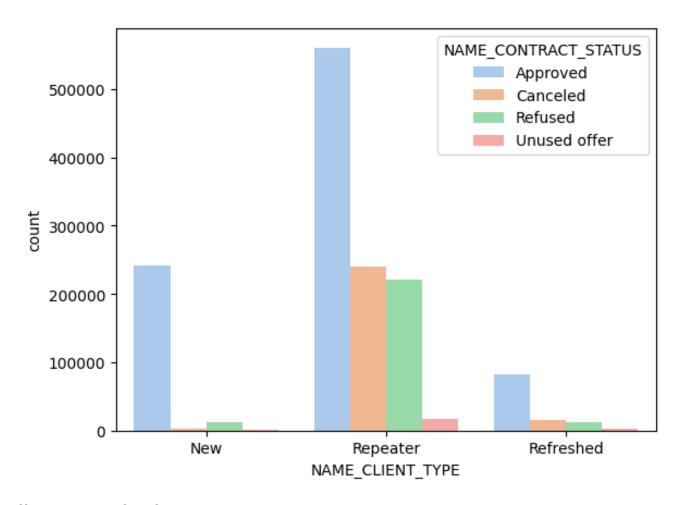
Observations:

- Most of the loans applied are approved for the clients.
 62.67% of the clients got their loan approved.
 18.35% and 17.35% of the clients got their loans application canceled or refused.
 Only 1.16% of the client refuse to take the loan offered.

Recommendations:

1. Loans which were canceled or refuse, indicates that clients did not match the expectations and it is riskier to provide loan to such clients.

Client type status



Observations:

- 73.51% of the clients are in the repeater category.
 18.35% of the clients are in new category.
 Only 8.13% of the client are in refreshed category.

Recommendations:

1. It is benificial to grant loan to the client whose loan got approved previously as well.

Thank you