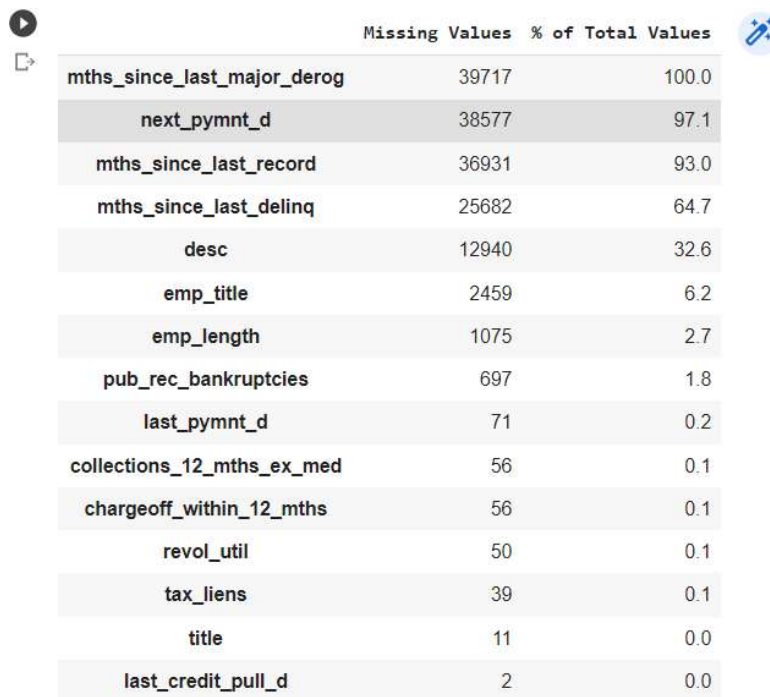


Data understanding:

- Data talks about the borrowers info such as loan amount, repayment etc
- NA columns are removed
- Identified string & no are mixed in column “term” and that is removed

Data understanding:

- Identified percentage of missing values and those columns were removed

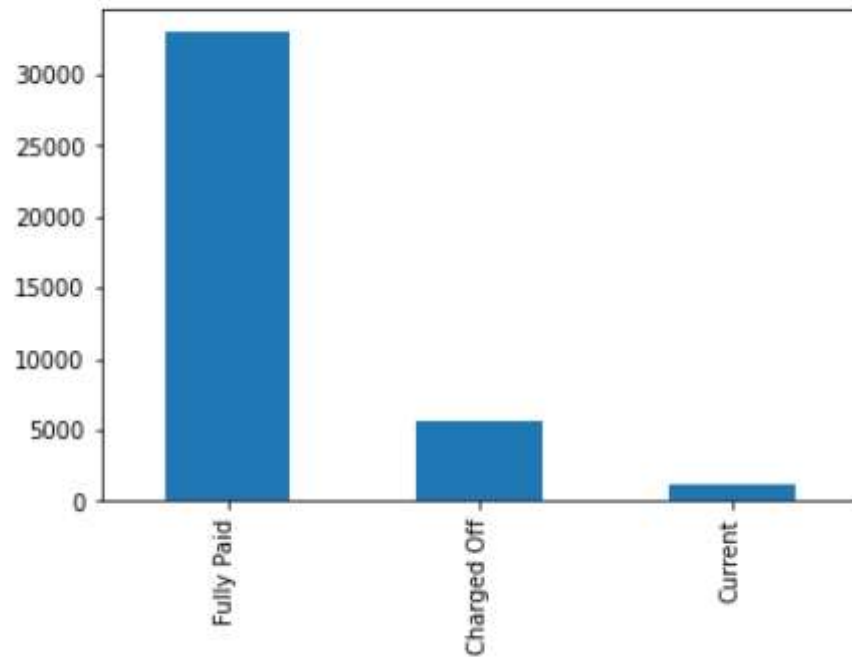
A screenshot of a data analysis tool showing a table with 15 rows and 3 columns. The columns are labeled 'Missing Values' and '% of Total Values'. The rows list various features and their corresponding missing value counts and percentages. The table is styled with alternating light and dark gray rows. There are small icons at the top left (a play button and a copy icon) and top right (a blue edit icon) of the table area.

	Missing Values	% of Total Values
mths_since_last_major_derog	39717	100.0
next_pymnt_d	38577	97.1
mths_since_last_record	36931	93.0
mths_since_last_delinq	25682	64.7
desc	12940	32.6
emp_title	2459	6.2
emp_length	1075	2.7
pub_rec_bankruptcies	697	1.8
last_pymnt_d	71	0.2
collections_12_mths_ex_med	56	0.1
chargeoff_within_12_mths	56	0.1
revol_util	50	0.1
tax_liens	39	0.1
title	11	0.0
last_credit_pull_d	2	0.0

Data Analysis:

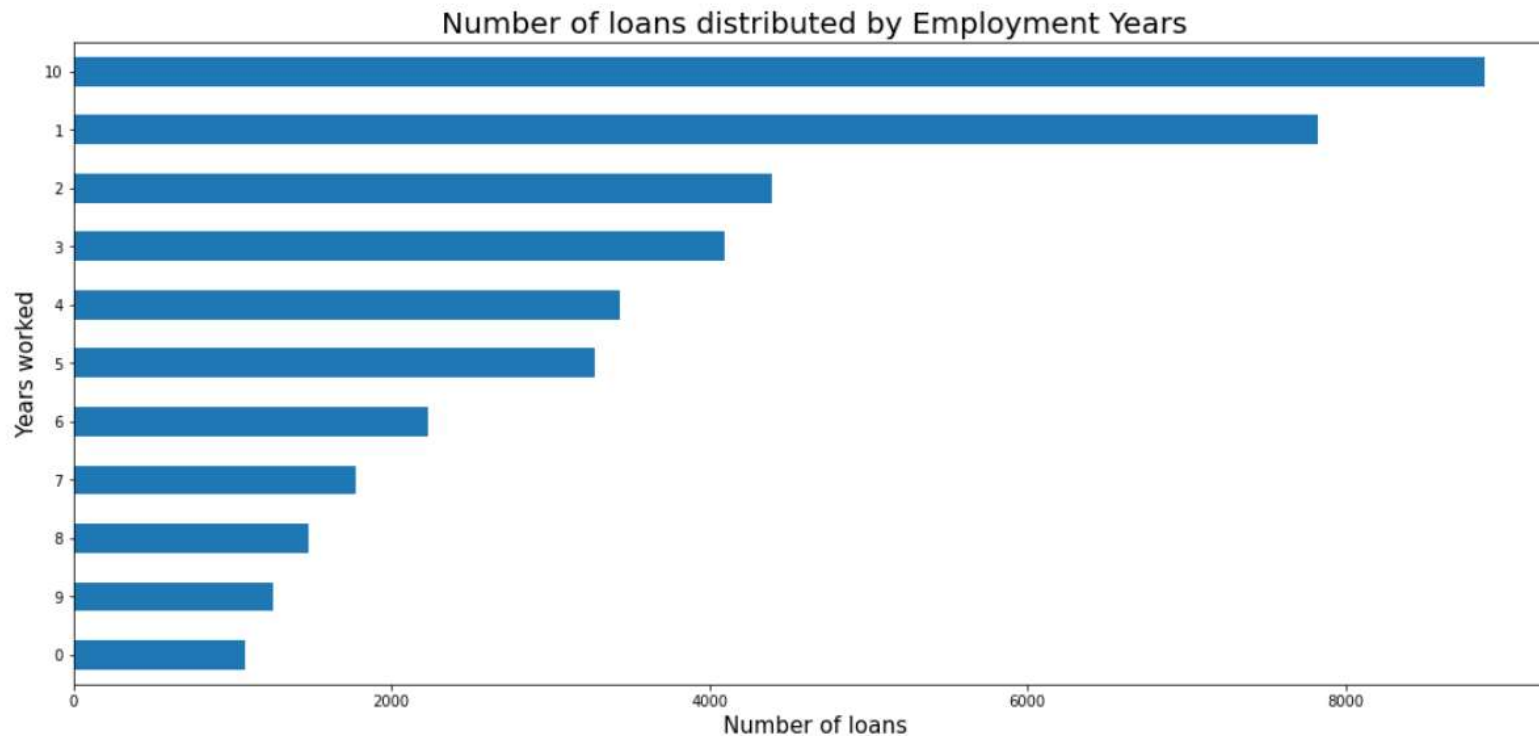
Fully paid members are more than the other category

<matplotlib.axes._subplots.AxesSubplot at 0x7fd1e3ea1ad0>



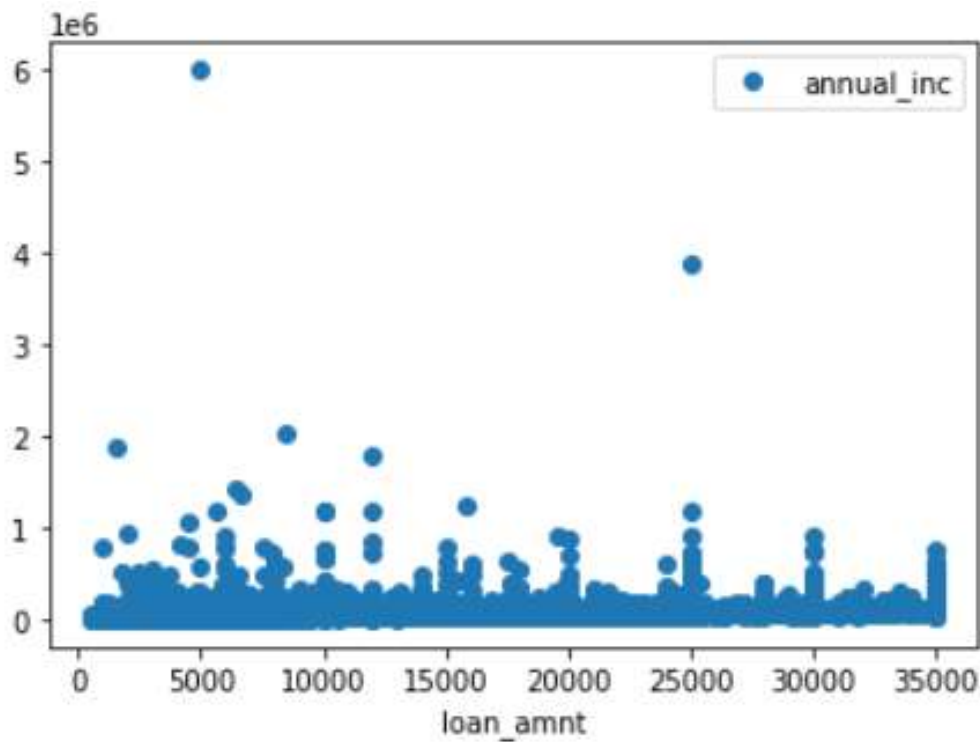
Data Analysis:

The column looks fine. Also, it can be seen that people who have worked for 10 or more years are more likely to take a loan.



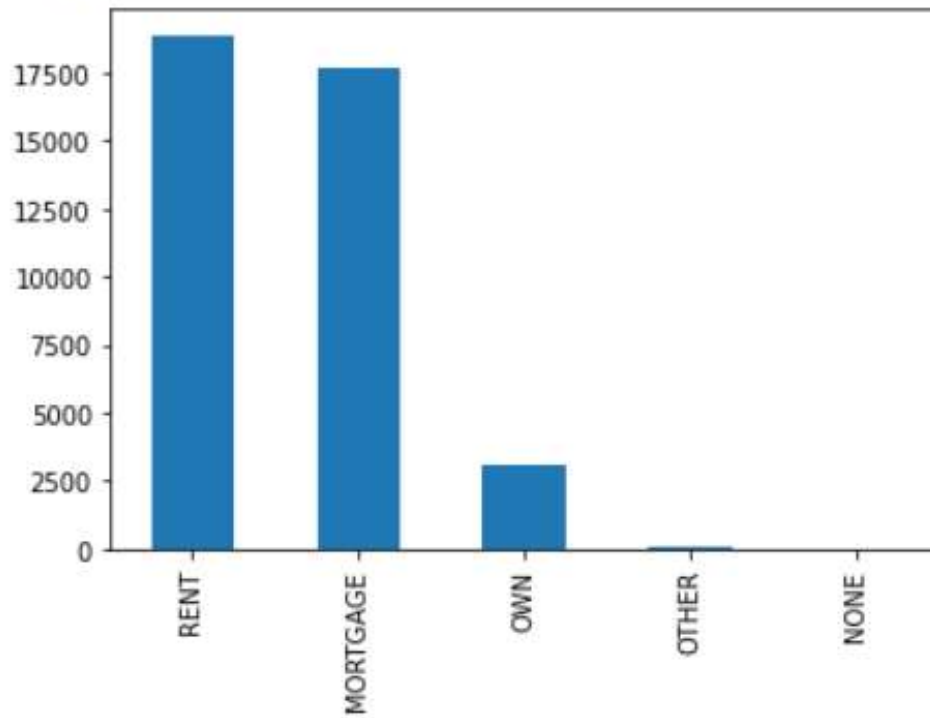
Data Analysis:

figure indicates that more than 90% borrowers taken loan amount upto 35000 who have got average income of 100000



Data Analysis:

Below graph indicates that most people are in RENT & MORTGAGE homes getting loan than own house



Data Analysis: Correlation

- Correlation between `total_pymnt_inv` and `total_pymnt` is: 0.97
→ Repayment structure follows the investment as per the given data

Recommendations:

- High interest payments leads to high losses, it is always better to consider low interest rates – So low risk at lower interest
- One of the driving factor for lender is , it can be seen that people who have worked for 10 or more years are more likely to take a loan.
- Repayment structure is good → Average income of 100000 with more than 10 years of employment . So using this analysis the fund limit can be deciding factor for finance company
- Data shows that the most (>90%) borrowers from Rented & Mortgage home than the Own home. Means more borrowers these categories approaching for loan.