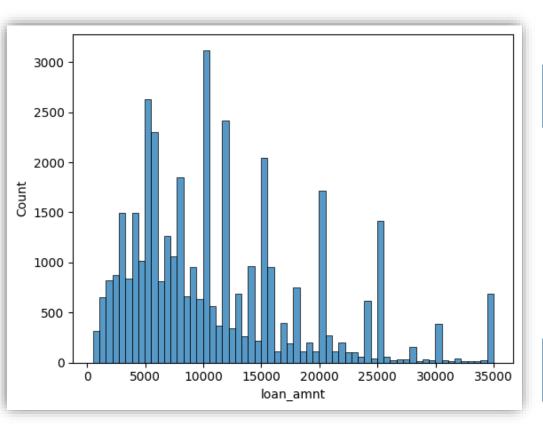
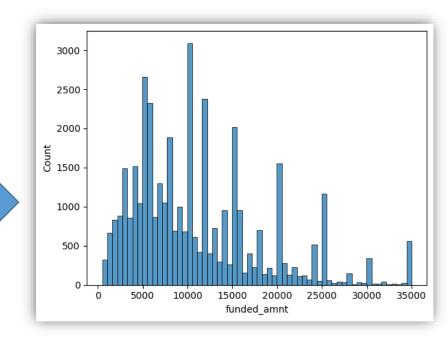
UNIVARIENT ANALYSIS

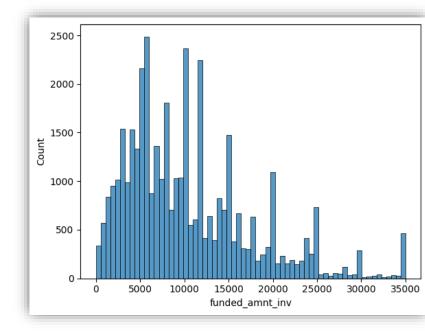
LOAN AMOUNT



FUNDED AMOUNT

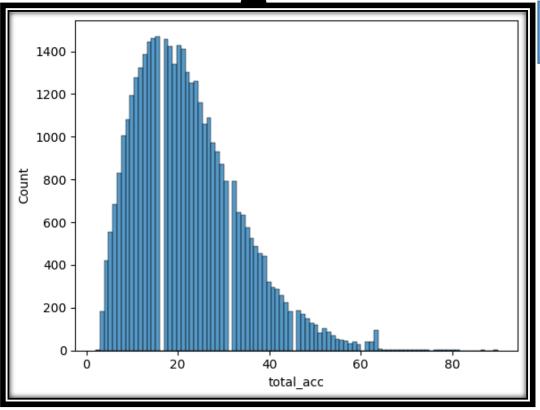
Funded Amnt_Inv





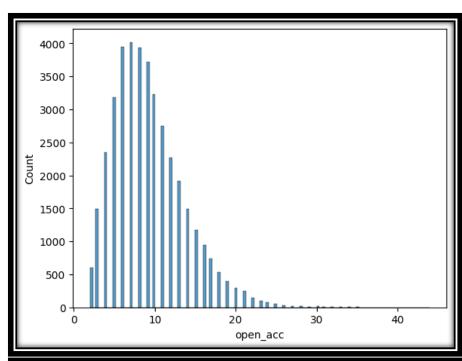
Loan Amount Vs Funded amount and Funder amount inv

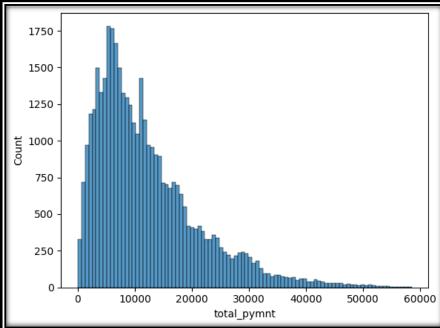


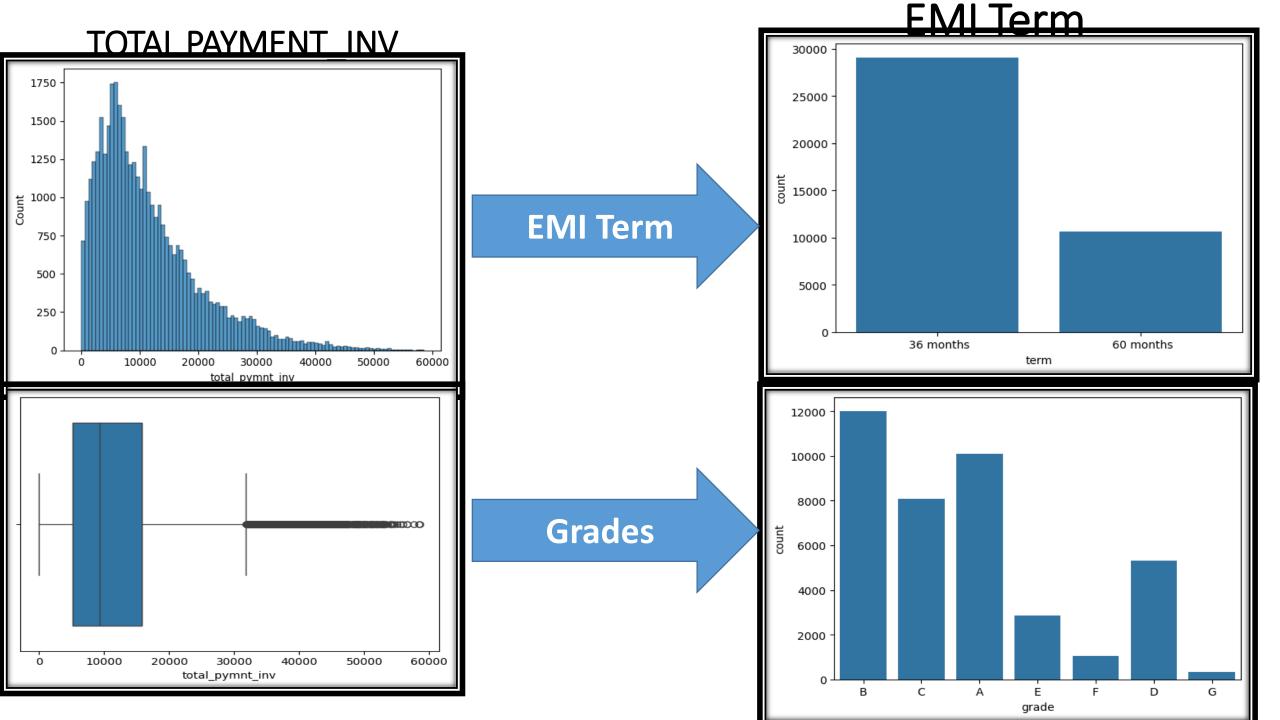


Open_Acc

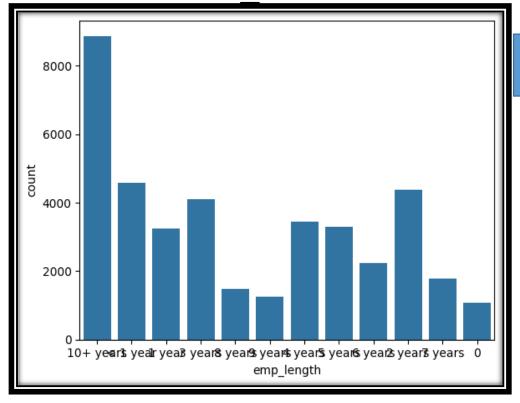
Total_Payments





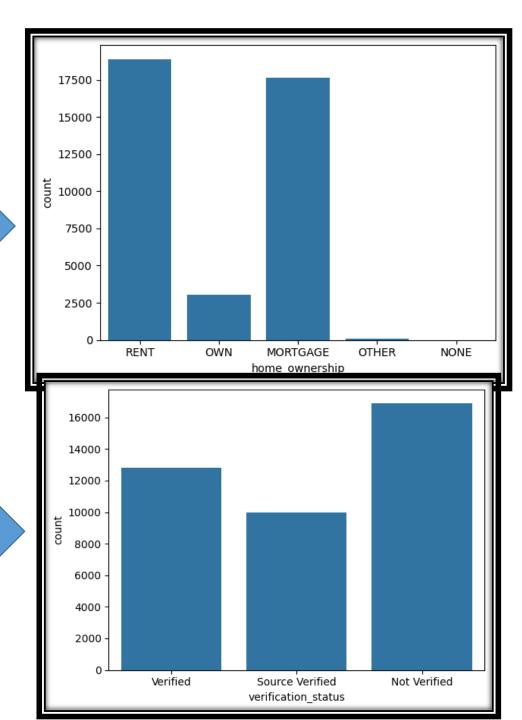


EMP_LENGTH

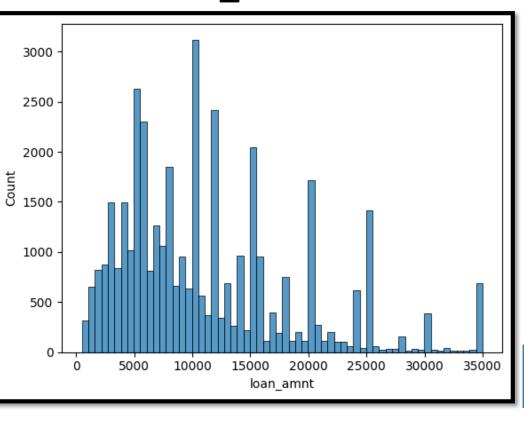


Home Type

Verification Status

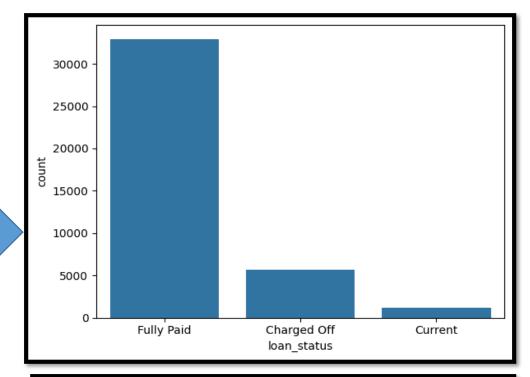


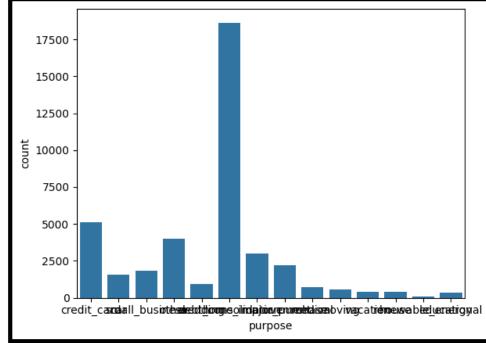
LOAN_AMOUNT



Loan_Status

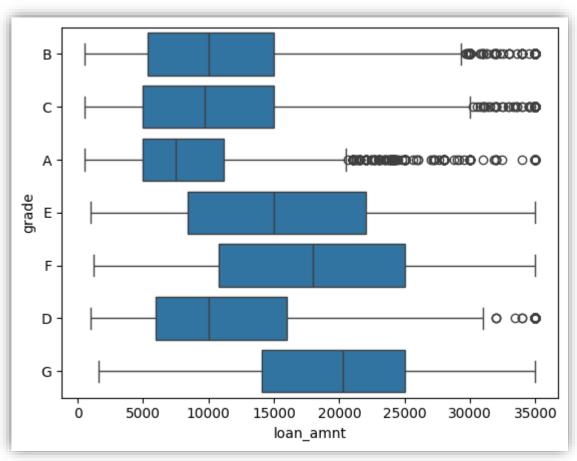






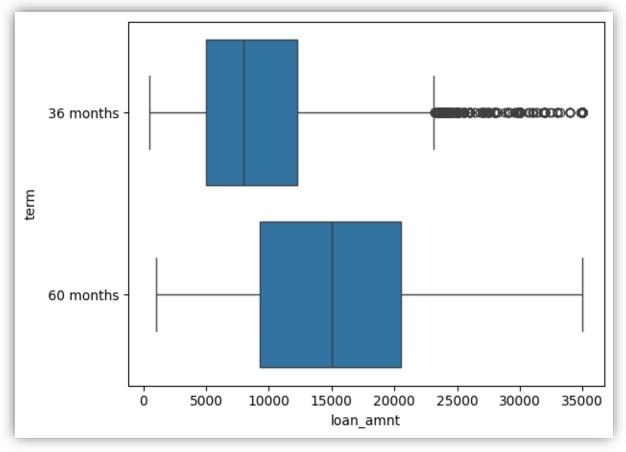
BIVARIENT ANALYSIS

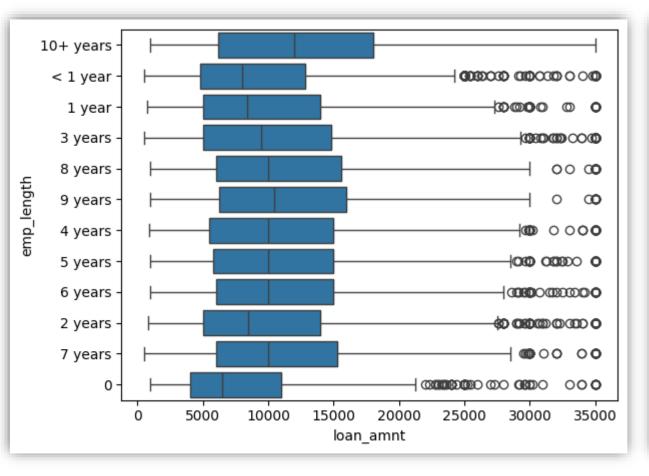
LOAN_AMOUNT VS GRADES

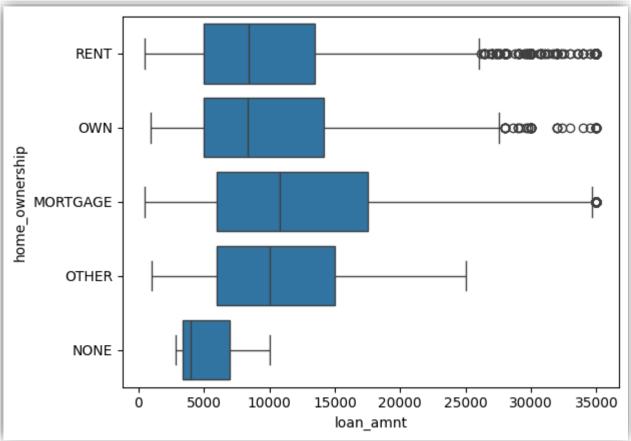


- The loan amount vs Grades and Term.
- G and F Grades are took the highest loans
- Max loans are took the term of 60 months.

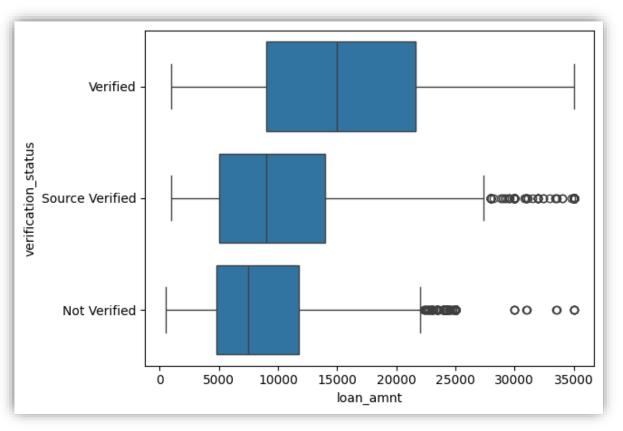
LOAN_AMOUNT VS TERM

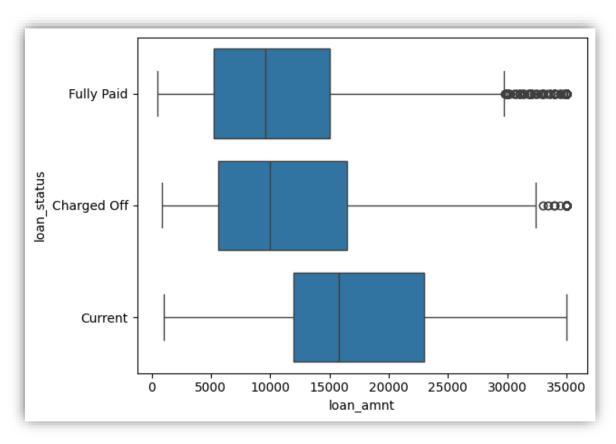




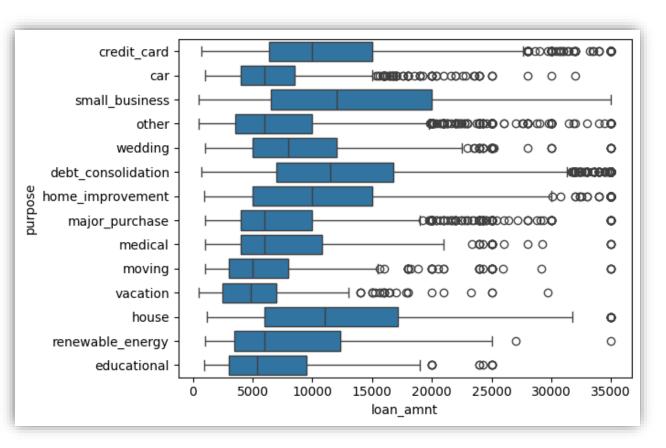


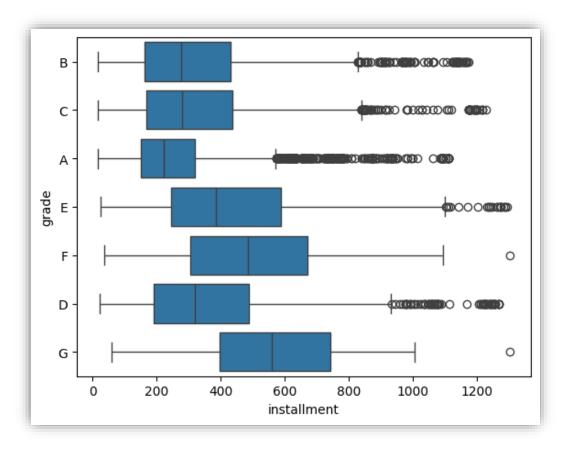
- Loan amount vs emp_length and Home Ownership
- Emp Length having more than 10 years took the Max loan amount
- Max loans are taken through Mortagage



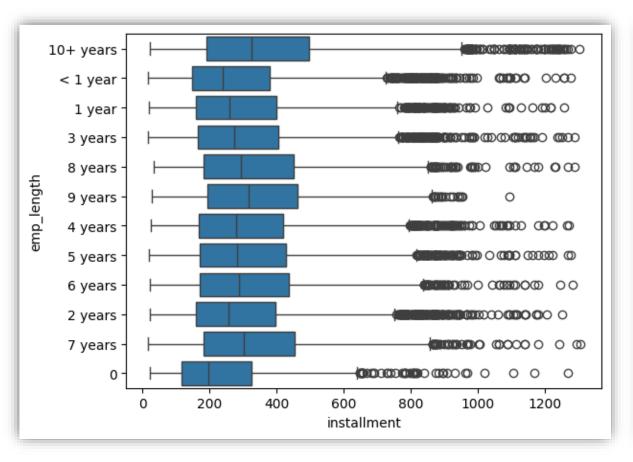


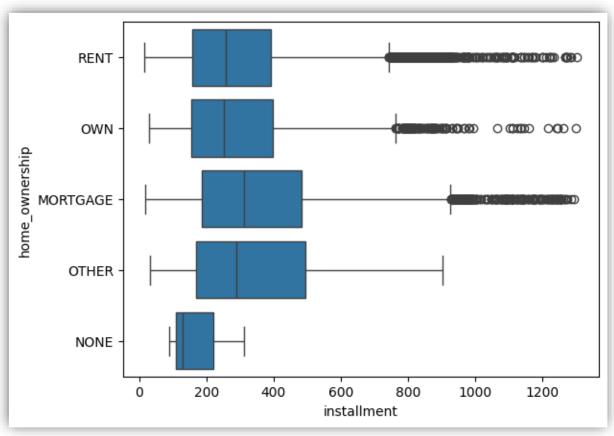
- Loan Amount Vs Verification Status and Loan status
- Max loans are verified status
- There were still Current loans are max as compared to fully paid and charged off.





- Loan amount vs Purpose and grades vs Instalments
- Max loans are taken for small business & House purposes
- Max number of instalments are paying from G and F grades



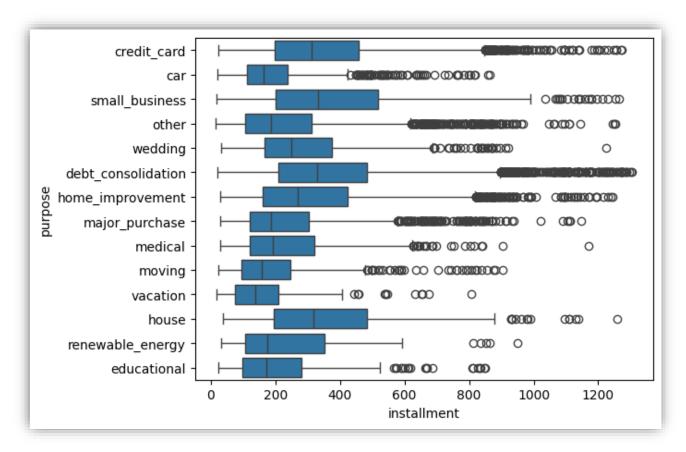


- Loan Instalments Vs Emp_length and homeownership
- Emp Length having more than 7 and 10+ years are paying more instalments
- Max number of instalments are paying from Mortgage and other home ownerships

INSTALMENT VS LOAN STATUS

Fully Paid loan status Charged Off -ത്താ ത്താറത്ത Current 200 400 600 800 1000 1200

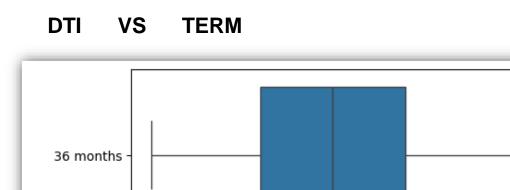
PURPOSE VS INSTALMENTS



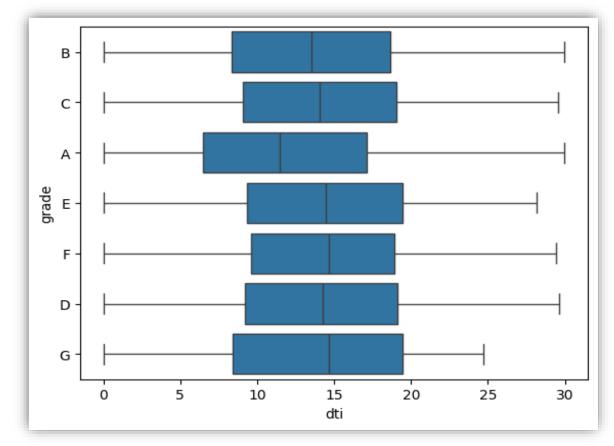
Instalments Vs Loan Status and Purpose

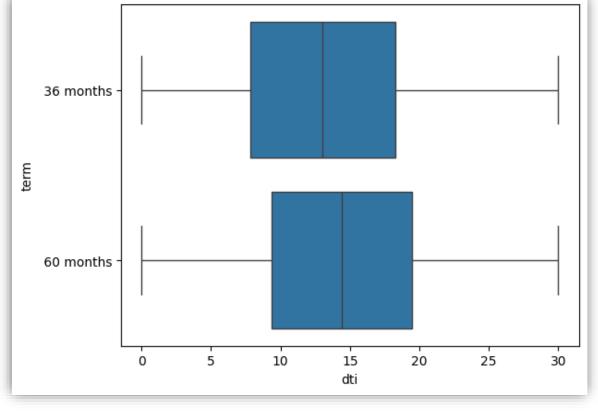
installment

- More instalments are received from Current loan status
- Small business and House loan purpose instalments are more





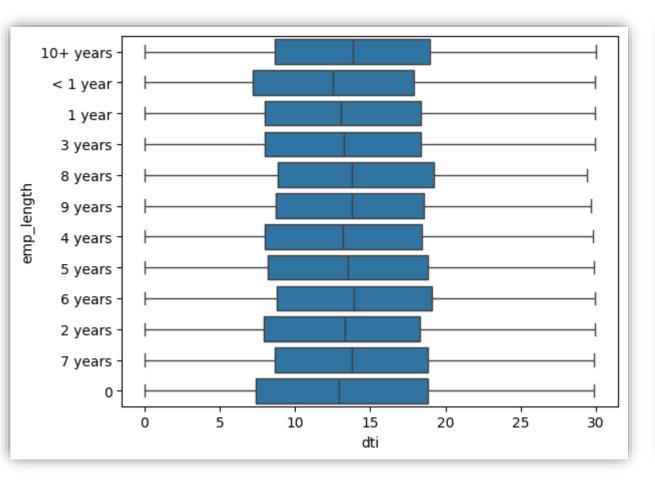


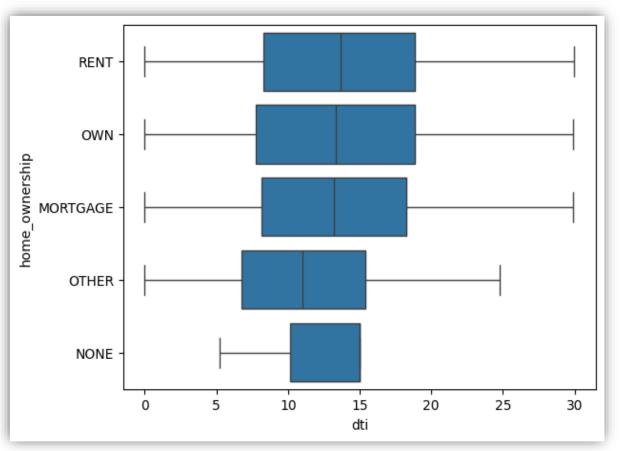


- **DTI Vs Term and Grades**
- Debt-to-Income is more for term 60 months
- Debt-to-Income are at the same level in all the grades, especially E grade having the more DTI values

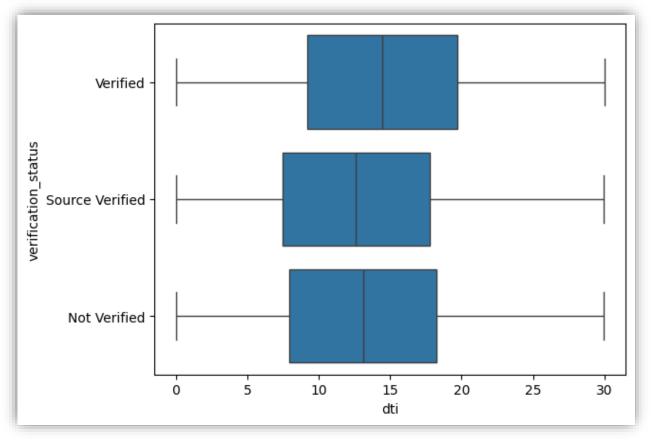


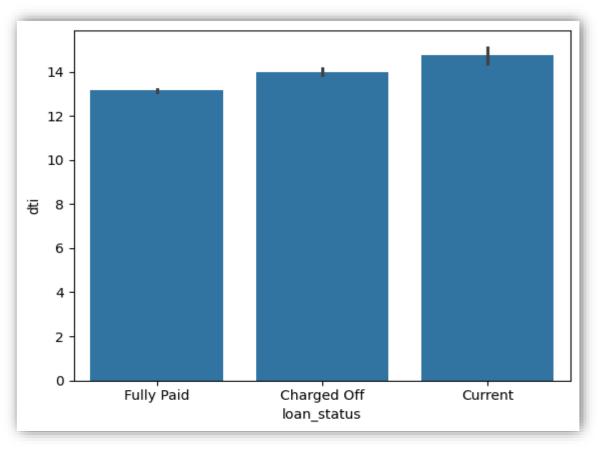
DTI VS HOME_OWNERSHIP



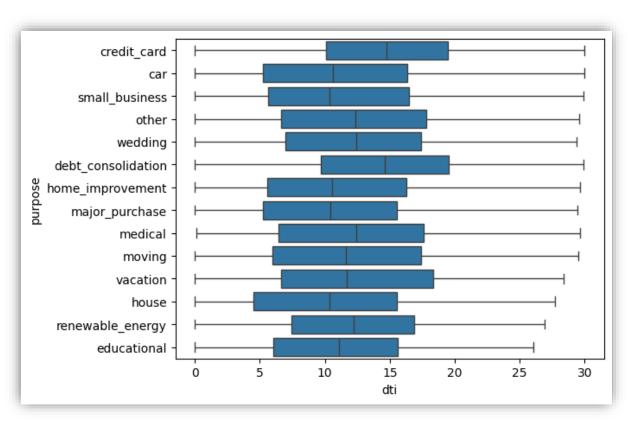


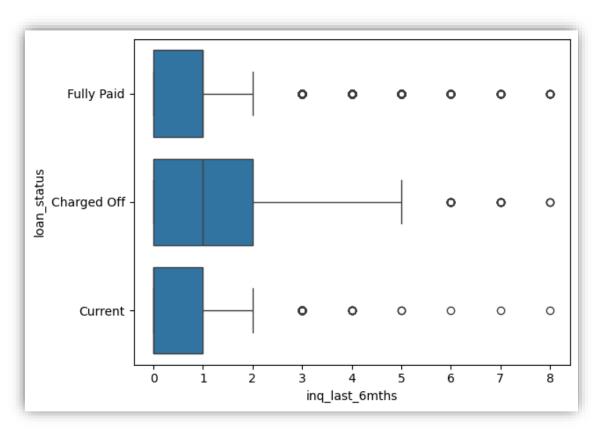
- DTI Vs Emp_length and Homeownership
- Debt-to-Income is almost same for all Emp_length, only little deference at all the data
- Debt-to-Income is High at Rent and Own house holders



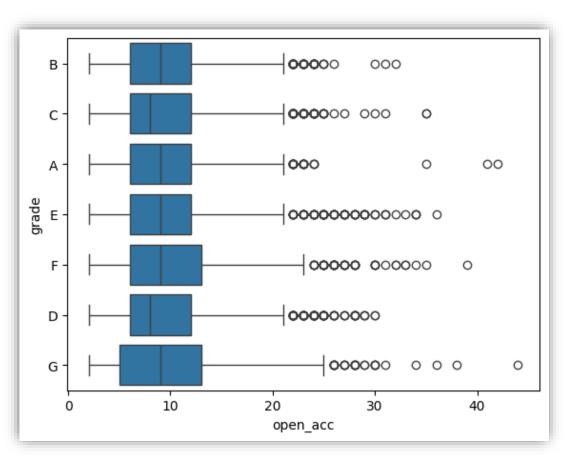


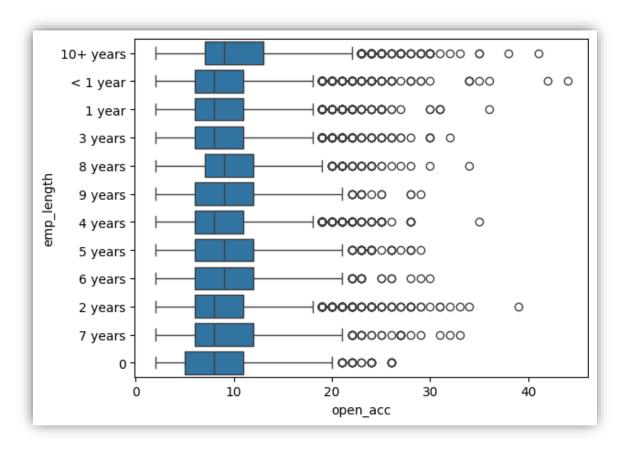
- Debt-to-Income Vs Loan Status and Verification Status
- Debt-to-Income is High at Verified loans
- Debt-to-Income is max at Current loans status



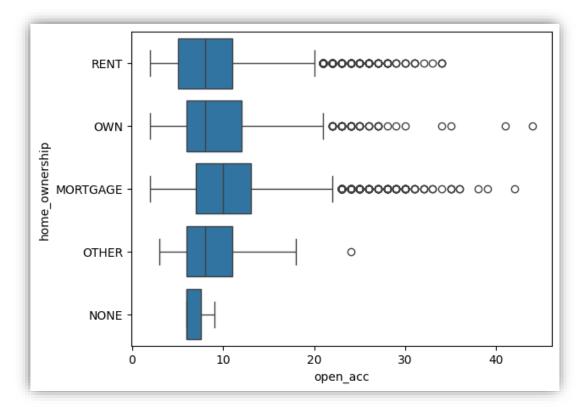


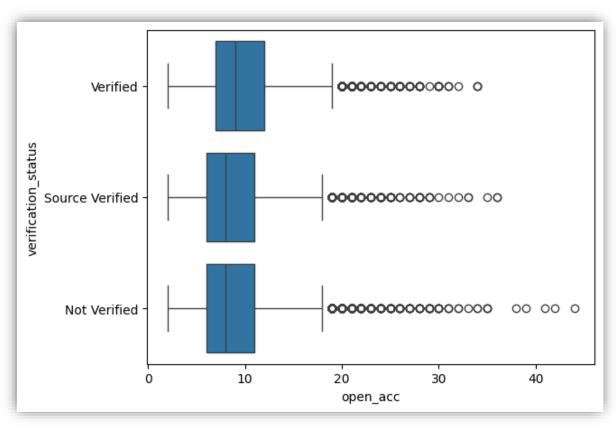
- Debt-to-Income Vs Verification Status
- Debt-to-Income is more at Debt consolidation purpose
- Loan status in last 6 months having more charged off.





- Open Accounts Vs Grades and Emp Length
- Max number of opened accounts are in F and G Grades accounts
- More than 10+ years of emp length have opened more acounts

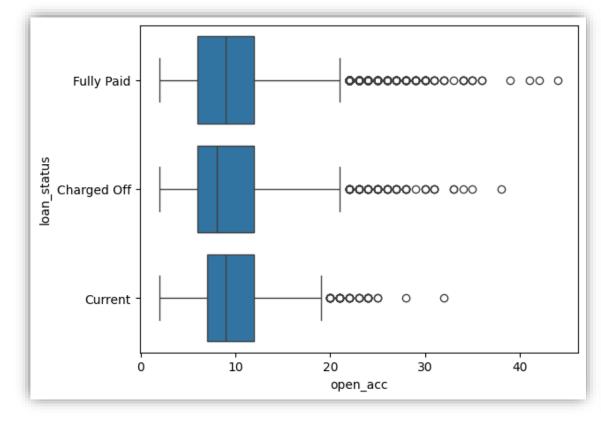


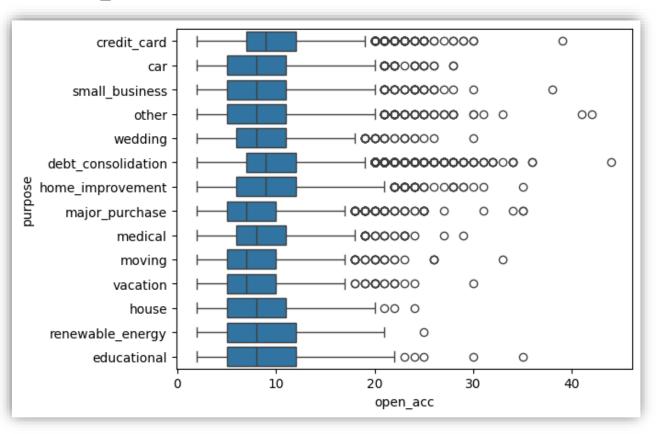


- Open Accounts Vs Home Ownerships and Verifications status
- Max number of Open accounts for Mortgage purpose.
- Max number of open Accounts are Verified status

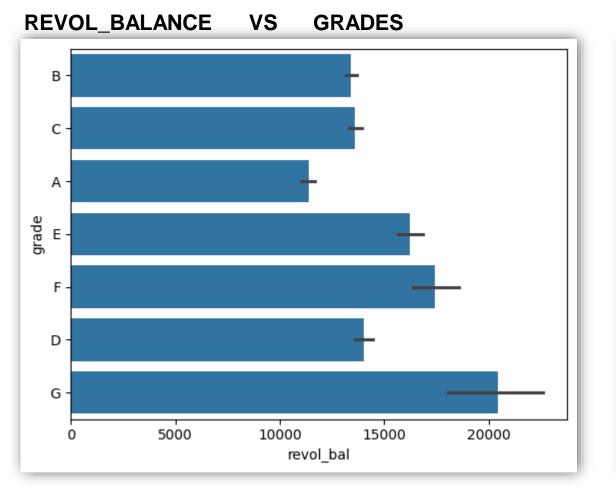
OPEN_ACC VS LOAN STATUS

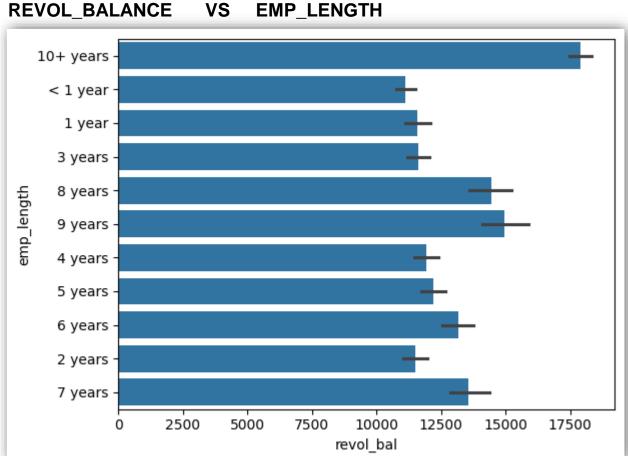
OPEN_ACC VS PURPOSE





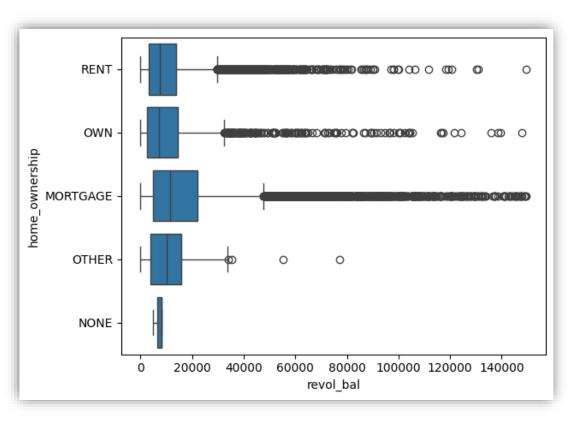
- Open Accounts Vs Loan Status and Purpose
- Total Number of open accounts are Fully paid and Charged off in the loan status
- Max number of opened accounts for open accounts for Credit Card, Educational,
 Renewable energy and Debt Consolidation purpose



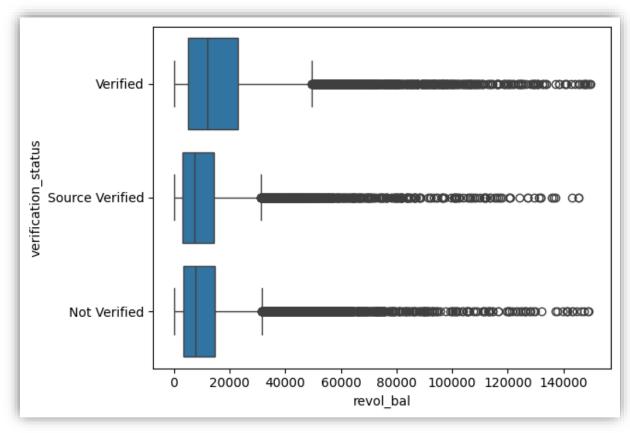


- Revol_bal vs Grades and Emp Length
- G Grades having more Revol Balance as compared to remaining
- More than 10+ years having high revol balance

REVOL_BALANCE VS HOME OWNERSHIP

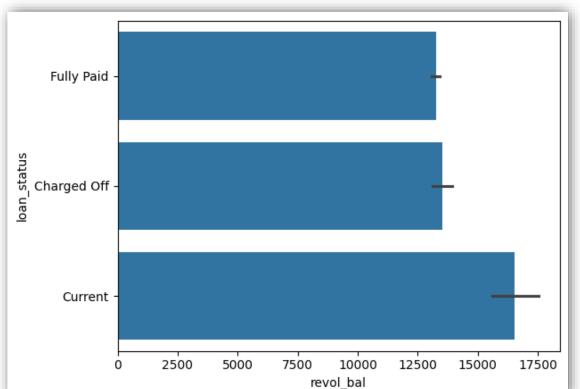


REVOL_BALANCE VS VERIFICATION STATUS

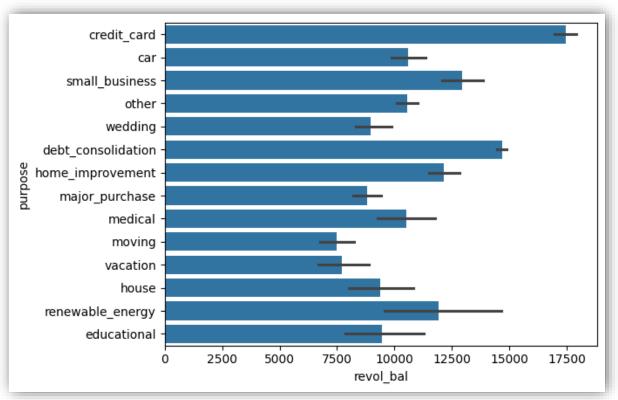


- Revol Balance Vs Home Ownership and Verification Status
- Mortgage Loans having more Revol Balance
- Loan Verified status having high revol Balance as compared to source and Not verified





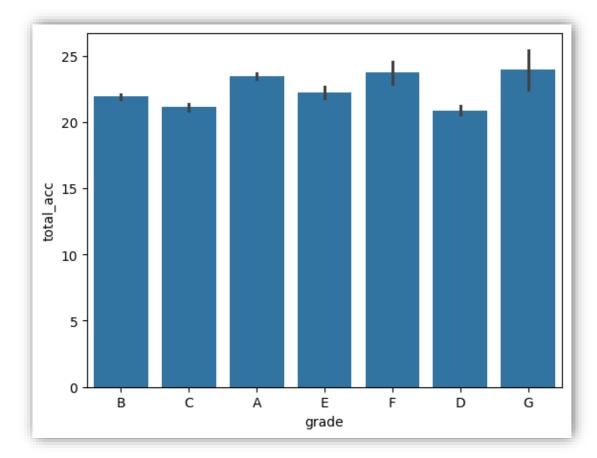
REVOL_BALANCE VS PURPOSE

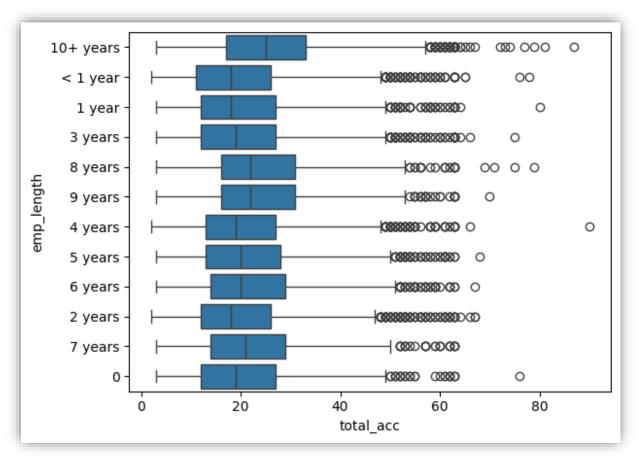


- Revol Balance Vs Loan Status and Purpose
- Revol Balance is high for those who are still paying current loans
- Revol Balance is high for who took Credit card Purpose

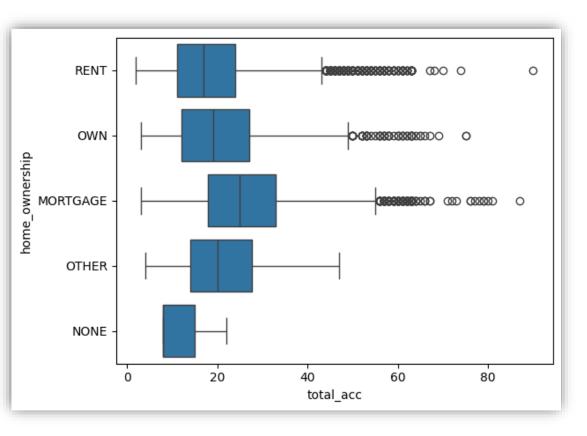
TOTAL_ACCOUNTS VS GRADES

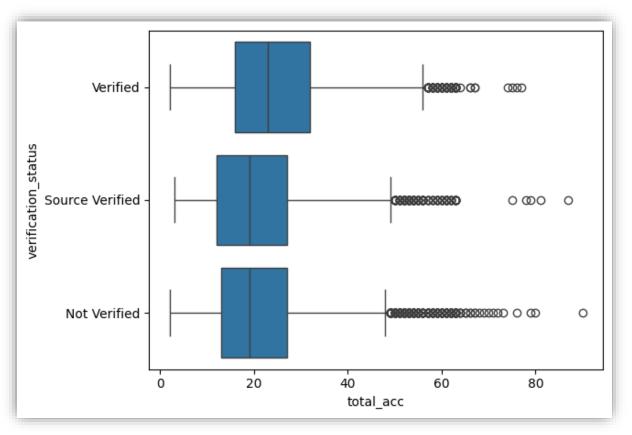




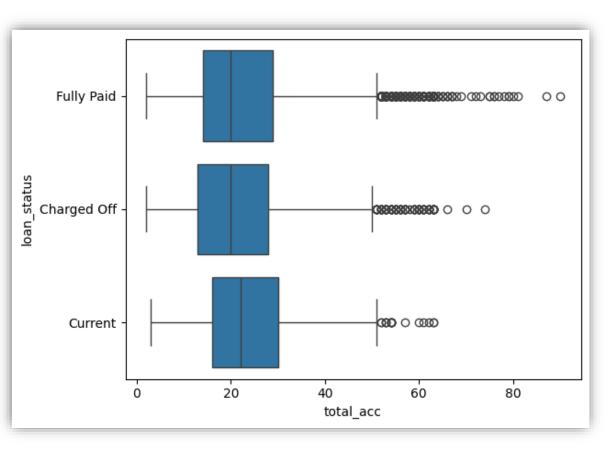


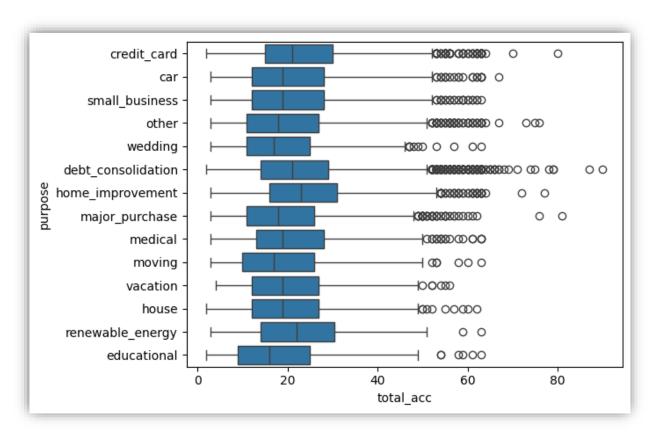
- Total Accounts Vs Grades and emp Length
- G and F grades are having max number of Total Accounts
- Emp Length more than 10+ years having highest Total Accounts





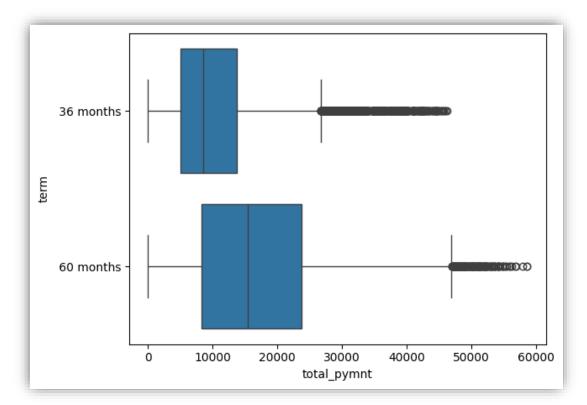
- Total Accounts Vs Home Ownership and Verification status
- Max number of total accounts are high at Mortgage ownerships
- Max number of total accounts are verified in status



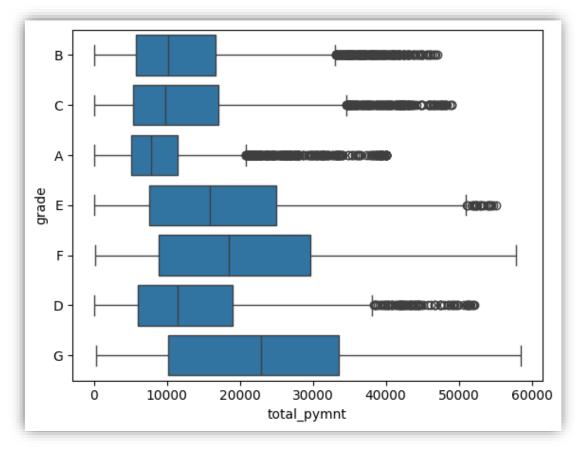


- Total Accounts Vs Loan Status and Purpose
- Current loan status are having more total accounts
- Max number of total accounts opened for home investment purpose

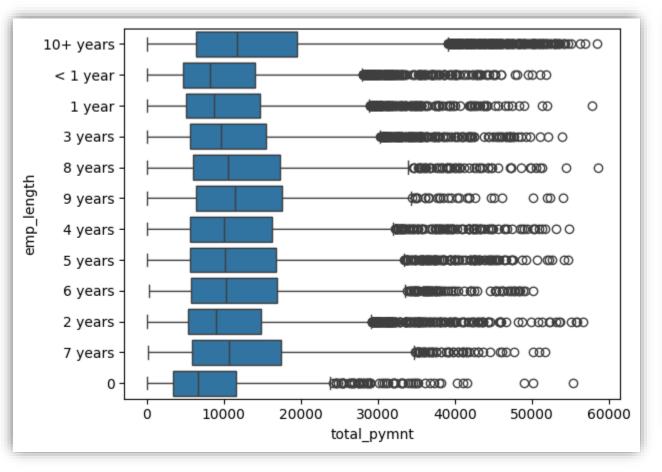
TOTAL_PAYMENTS VS TERMS

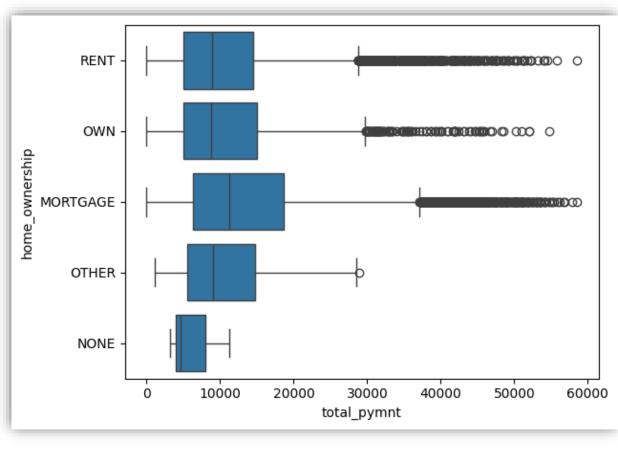




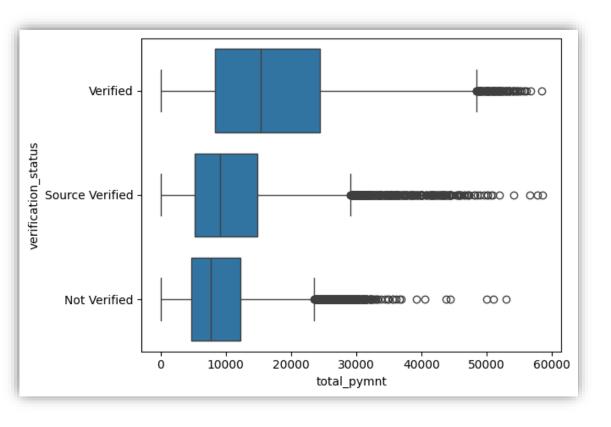


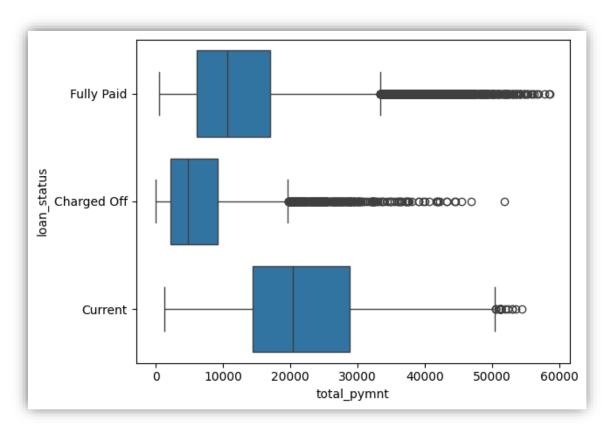
- Total Payments Vs Terms and Grades
- Total payments are max using 60 month Term
- G Grade having max number of Total Payments





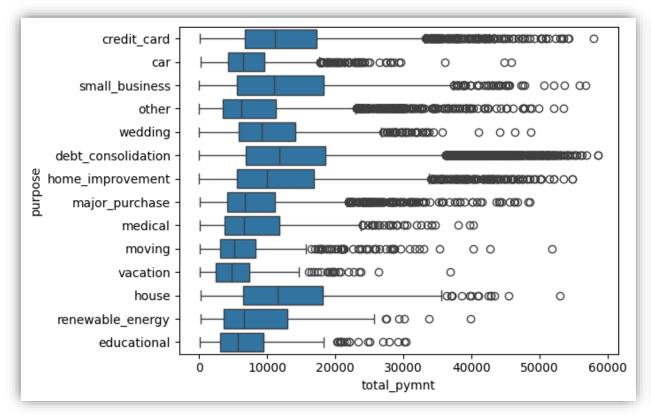
- Total Payments Vs Emp length and Home ownership
- Max number of Total Payments are received from more than 10+ years emp length
- Max number of Total payments are received from Mortgage ownership

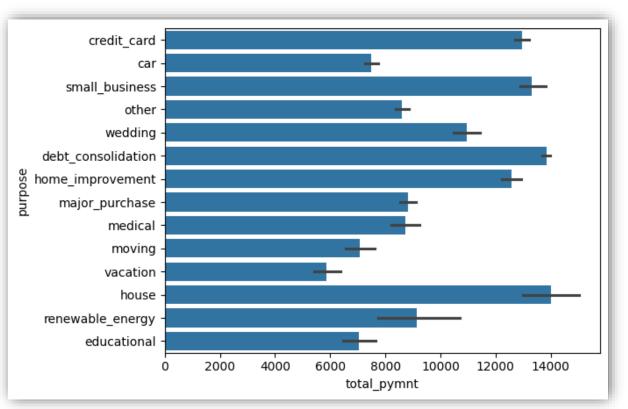




- Total Payments Vs Verification Status and loan status
- Max number of total payments are Verified
- Max number of total payments are still current in loan status, less in charged off

TOTAL_PAYMENTS VS PURPOSE

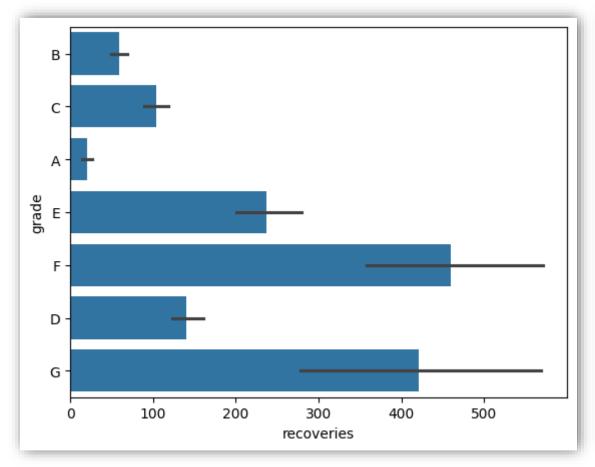


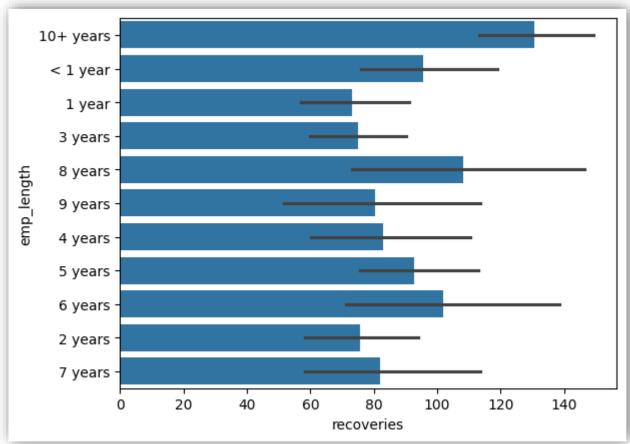


- Total Payments Vs Purpose
- Max number of total payments are received from House and Debt consolidation purpose



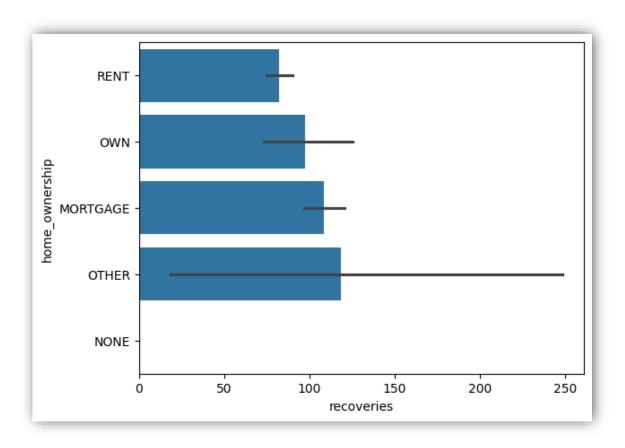
RECOVERIES VS EMP_LENGTH

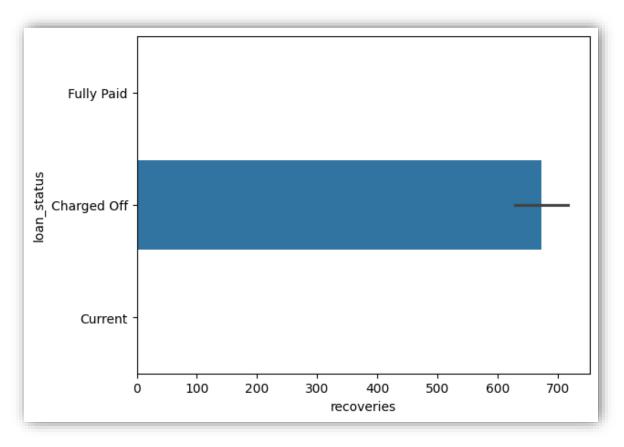




- Recoveries Vs Grades and Emp Length
- More recoveries had done in Grade E and G
- More recoveries are with more than 10+ years emp length

RECOVERIES VS LOAN_STATUS

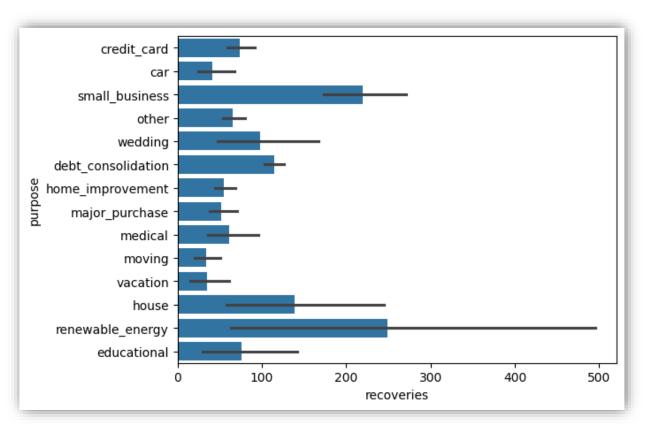


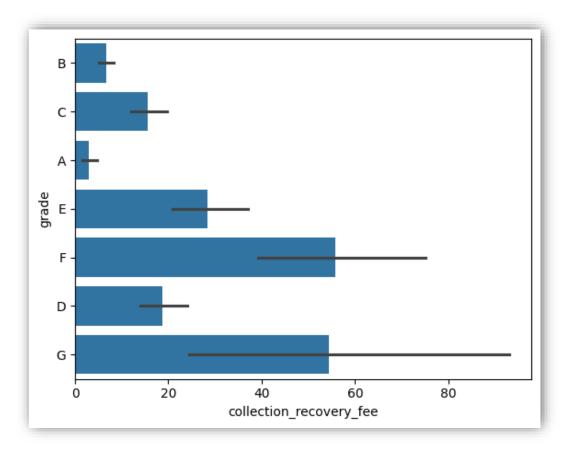


- Recoveries Vs home ownership and loan status
- More recoveries had done in other home ownerships
- All recoveries are had charged off in loan status

RECOVERIES VS PURPOSE

COLLECTION RECOVERY FEE VS GRADE

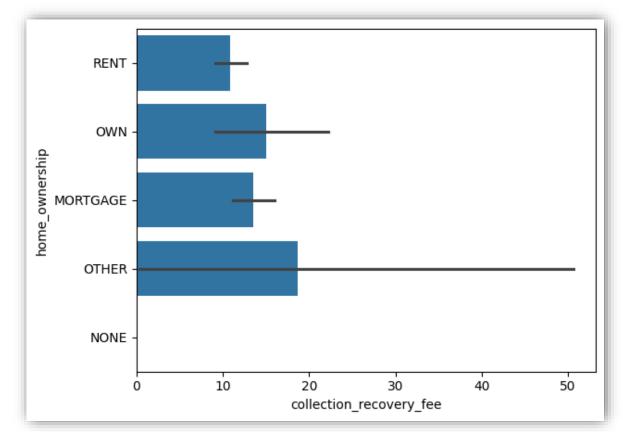


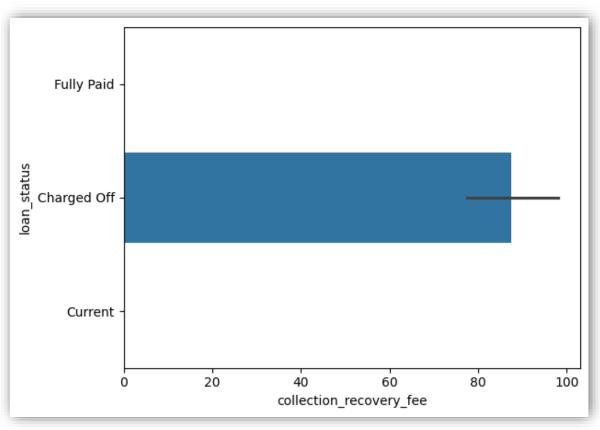


- Recoveries Vs Purpose and Collection Recovery Fee Vs Grade
- More recoveries had done in Renewable energy and Small business purpose
- Max collection recovery fee are paid by G and F Grades

COLLECTION RECOVERY FEE VS HOMEOWNERSHIP

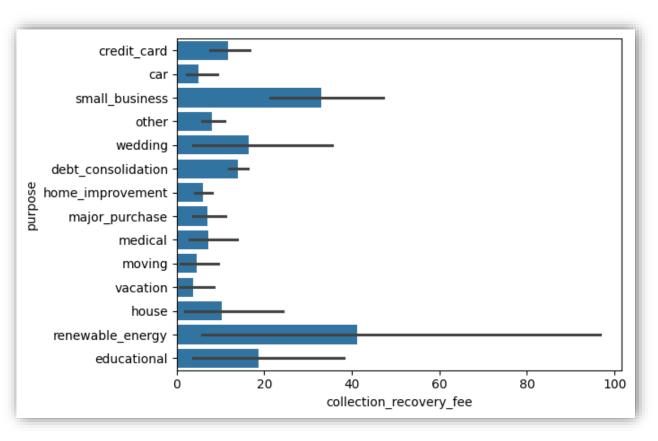
COLLECTION RECOVERY FEE VS LOAN_STATUS





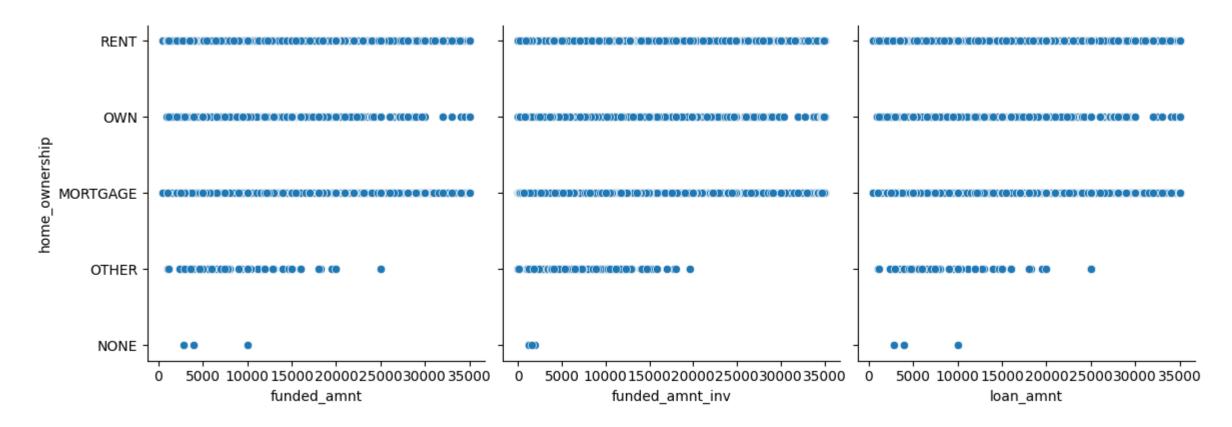
- Collection Recovery Fee Vs home ownership and loan status
- More recoveries fees had paid for those who have Mortgage ownerships
- All collection recovery fee are charged off in loan status

COLLECTION RECOVERY FEE VS HOMEOWNERSHIP



- Collection Recovery Fee Vs Purpose
- Max recoveries fees had paid due to renewable energy purpose and small business as well

HOME OWNERSHIP VS (FUNDED AMOUNT, FUNDED AMOUNT INV AND LOAN AMOUNT)



Difference of all amount related to home ownerships

MULTIVARIATE ANALYSIS

loan_amnt -	1	0.98	0.94	0.93	0.27	0.066	0.0092	0.18	-0.051	0.32	0.26	0.89	0.85	0.85	0.73	0.14	0.073	0.45
funded_amnt -	0.98	1	0.96	0.96	0.27	0.066	0.0093	0.18	-0.052	0.31	0.25	0.9	0.87	0.87	0.74	0.14	0.075	0.45
funded_amnt_inv -	0.94	0.96	1	0.91	0.25	0.075	-0.0057	0.16	-0.053	0.29	0.24	0.88	0.91	0.85	0.73	0.12	0.06	0.44
installment -	0.93	0.96	0.91	1	0.27	0.054	0.0097	0.17	-0.047	0.31	0.23	0.86	0.82	0.85	0.63	0.12	0.075	0.4
annual_inc -	0.27	0.27	0.25	0.27	1	-0.12	0.034	0.16	-0.019	0.28	0.24	0.26	0.25	0.26	0.19	0.022	0.016	0.14
dti -	0.066	0.066	0.075	0.054	-0.12	1	0.0014	0.29	-0.0046	0.23	0.23	0.065	0.072	0.041	0.11	0.025	0.011	0.0052
inq_last_6mths -	0.0092	0.0093	-0.0057	0.0097	0.034	0.0014	1	0.092	0.025	-0.022	0.11	-0.011	-0.02	-0.023	0.022	0.019	0.012	0.029
open_acc -	0.18	0.18	0.16	0.17	0.16	0.29	0.092	1	0.00017	0.29	0.69	0.16	0.15	0.16	0.12	0.016	0.0062	0.079
pub_rec -	-0.051	-0.052	-0.053	-0.047	-0.019	-0.0046	0.025	0.00017	1	-0.061	-0.024	-0.054	-0.054	-0.065	-0.0075	-0.0055	-0.0055	-0.032
revol_bal -	0.32	0.31	0.29	0.31	0.28	0.23	-0.022	0.29	-0.061	1	0.31	0.29	0.28	0.28	0.24	0.042	0.022	0.12
total_acc -	0.26	0.25	0.24	0.23	0.24	0.23	0.11	0.69	-0.024	0.31	1	0.23	0.22	0.23	0.15	0.023	0.011	0.16
total_pymnt -	0.89	0.9	0.88	0.86	0.26	0.065	-0.011	0.16	-0.054	0.29	0.23	1	0.97	0.97	0.83	0.024	0.025	0.47
total_pymnt_inv -	0.85	0.87	0.91	0.82	0.25	0.072	-0.02	0.15	-0.054	0.28	0.22	0.97	1	0.94	0.82	0.018	0.015	0.46
total_rec_prncp -	0.85	0.87	0.85	0.85	0.26	0.041	-0.023	0.16	-0.065	0.28	0.23	0.97	0.94	1	0.68	-0.095	-0.059	0.54
total_rec_int -	0.73	0.74	0.73	0.63	0.19	0.11	0.022	0.12	-0.0075	0.24	0.15	0.83	0.82	0.68	1	0.076	0.033	0.19
recoveries -	0.14	0.14	0.12	0.12	0.022	0.025	0.019	0.016	-0.0055	0.042	0.023	0.024	0.018	-0.095	0.076	1	0.8	-0.07
collection_recovery_fee -	0.073	0.075	0.06	0.075	0.016	0.011	0.012	0.0062	-0.0055	0.022	0.011	0.025	0.015	-0.059	0.033	0.8	1	-0.042
last_pymnt_amnt -	0.45	0.45	0.44	0.4	0.14	0.0052	0.029	0.079	-0.032	0.12	0.16	0.47	0.46	0.54	0.19	-0.07	-0.042	1
	loan_amnt -	funded_amnt -	funded_amnt_inv -	installment -	annual_inc -	df	ing_last_6mths -	oben_acc -	pub_rec -	revol_bal -	total_acc -	total_pymnt -	total_pymnt_inv -	total_rec_prncp -	total_rec_int -	recoveries -	collection_recovery_fee -	last_pymnt_amnt -

- 1.0

- 0.8

- 0.6

- 0.2

- 0.0

loan_amnt -	1	0.98	0.94	0.93	0.27	0.066	-0.032	0.0092	0.18	-0.051	0.32	0.26	0.19	0.19	0.89	0.85	0.85	0.73	0.045	0.14	0.073	0.45	-0.037
funded_amnt -	0.98	1	0.96	0.96	0.27	0.066	-0.032	0.0093	0.18	-0.052	0.31	0.25	0.19	0.19	0.9	0.87	0.87		0.047	0.14	0.075	0.45	-0.039
funded_amnt_inv -	0.94	0.96	1	0.91	0.25	0.075	-0.039	-0.0057	0.16	-0.053	0.29	0.24	0.2	0.2	0.88	0.91	0.85		0.027	0.12	0.06	0.44	-0.043
installment -	0.93	0.96	0.91	1.	0.27	0.054	-0.02	0.0097	0.17	-0.047	0.31	0.23	0.13	0.12	0.86	0.82	0.85	0.63	0.057	0.12	0.075	0.4	-0.034
annual_inc -	0.27	0.27	0.25	0.27	1	-0.12	0.023	0.034	0.16	-0.019	0.28	0.24	0.034	0.033	0.26	0.25	0.26	0.19	0.0062	0.022	0.016	0.14	-0.017
elti -	0.066	0.066	0.075	0.054	-0.12	1	-0.034	0.0014	0.29	-0.0046	0.23	0.23	0.036	0.036	0.065	0.072	0.041	0.11	-0.012	0.025	0.011	0.0052	0.0057
delinq_2yrs -	-0.032	-0.032	-0.039	-0.02	0.023	-0.034	1	0.0081	0.012	0.0075	-0.055	0.068	-0.003	-0.0032	-0.023	-0.029	-0.039	0.023	0.031	0.012	0.014	-0.012	0.0034
inq_last_6mths -	0.0092	0.0093	-0.0057	0.0097	0.034	0.0014	0.0081	1	0.092	0.025	-0.022	0.11	-0.012	-0.012	-0.011	-0.02	-0.023	0.022	0.031	0.019	0.012	0.029	0.016
open_acc -	0.18	0.18	0.16	0.17	0.16	0.29	0.012	0.092	T.	0.00017	0.29	0.09	0.029	0.029	0.16	0.15	0.16	0.12	-0.019	0.016	0.0062	0.079	0.0059
pub_rec -	-0.051	-0.052	-0.053	-0.047	-0.019	-0.0046	0.0075	0.025	0.00017	1	-0.061	-0.024	-0.013	-0.013	-0.054	-0.054	-0.065	-0.0075	-0.0021	-0.0055	-0.0055	-0.032	0.85
revol_bal -	0.32	0.31	0.29	0.31	0.28	0.23	-0.055	-0.022	0.29	-0.061	1	0.31	0.06	0.06	0.29	0.28	0.28	0.24	0.0038	0.042	0.022	0.12	0.049
total_acc -	0.26	0.25	0:24	0.23	0.24	0.23	0.068	0.11	0.69	-0.024	0.31	1	0.031	0.031	0.23	0.22	0.23	0.15	-0.025	0.023	0.011	0.16	0.012
out_prncp -	0.19	0.19	0.2	0.13	0.034	0.036	-0.003	-0.012	0.029	-0.013	0.06	0.031	1	1	0.24	0.25	0.17	0.38	-0.0046	-0.019	-0.011	-0.066	-0.01
out_prncp_inv -	0.19	0.19	0.2	0.12	0.033	0.036	-0.0032	-0.012	0.029	-0.013	0.06	0.031	1	1	0.24	0.25	0.17	0.38	-0.0048	-0.019	-0.011	-0.066	-0.01
total_pymnt -	0.89	0.9	0.88	0.86	0.26	0.065	-0.023	-0.011	0.16	-0.054	0.29	0.23	0.24	0.24	1	0.97	0.97	0.83	0.013	0.024	0.025	0.47	-0.044
total_pymnt_inv -	0.85	0.87	0.91	0.82	0.25	0.072	-0.029	-0.02	0.15	-0.054	0.28	0.22	0.25	0.25	0.97	1	0.94	0.82	-0.0008	0.018	0.015	0.46	-0.047
total_rec_prncp -	0.85	0.87	0.85	0.85	0.26	0.041	-0.039	-0.023	0.16	-0.065	0.28	0.23	0.17	0.17	0.97	0.94	1	0.68	-0.02	-0.095	-0.059	0.54	-0.054
total_rec_int -	0.73	0.74	0.79	0.63	0.19	0.11	ES0.0	0.022	0.12	-0.0075	0.24	0.15	0.38	0.38	0.83	0.82	0.68	1	0.069	0.076	0.033	0.19	-0.0036
total_rec_late_fee -	0.045	0.047	0.027	0.057	0.0062	-0.012	0.031	0.031	-0.019	-0.0021	0.0038	-0.025	-0.0046	-0.0048	0.013	-0.0008	-0.02	0.069	1	0.1	0.093	-0.061	-0.0055
recoveries -	0.14	0.14	0.12	0.12	0.022	0.025	0.012	0.019	0.016	-0.0055	0.042	0.023	-0.019	-0.019	0.024	0.018	-0.095	0.076	0.1	1.	0.8	-0.07	-0.0047
collection_recovery_fee -	0.073	0.075	0.06	0.075						-0.0055					2000000	0.015	-0.059	0.033	0.093	0.8	1	-0.042	-0.0052
last_pymnt_amnt -		0.45	NAME OF TAXABLE PARTY.	0.4						-0.032						0.40	0.54		-0.061			1	-0.023
pub_rec_bankruptcies -	-0:037	-0.039	-0.043		-0.017	MARKET CO.	and Account	establisme.		0.85	- Carried Market	Name and	-0.01	- Congression	To the same	-0.047	- Section 1	-0.0036	-0.0055	-0.0047	Season Services		1
	ban ann	funded amm	funded amnt inv	installment	amual inc	-6	deling Zyrs	ing last 6mths	open acc	DE LOS	led loval	total acc	out pud	out princip in	total pymrt	botal pymint, in	to process to the second	total nec in	total rec late fee	recoveries	olection_recovery_fee	last pymrk amri	pub rec bankruptoies
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