Loan Data Report

Introduction

The loan dataset offers comprehensive insights into applicants' details like gender, marital status, education, income, loan amount, and property area. This analysis aims to uncover patterns and demographics using pivot tables and charts. Understanding these nuances is crucial for financial institutions to optimize lending processes and cater to diverse customer needs effectively. The insights derived will inform strategic decisions and enhance loan management systems' efficiency.

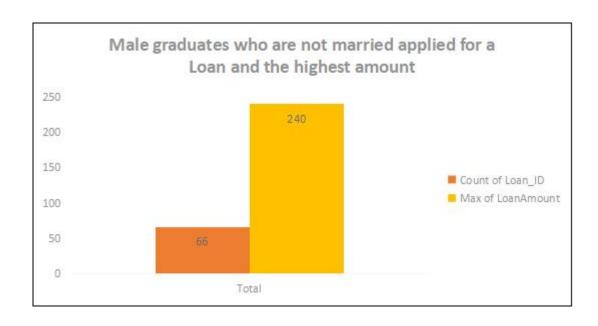
Questionnaire

- 1. How many male graduates who are not married applied for Loan? What was the highest amount?
- 2. How many female graduates who are not married applied for Loan? What was the highest amount?
- 3. How many male non-graduates who are not married applied for Loan? What was the highest amount?
- 4. How many female graduates who are married applied for Loan? What was the highest amount?
- 5. How many male and female who are not married applied for Loan? Compare Urban, Semi-urban and rural based on amount.

Analytics

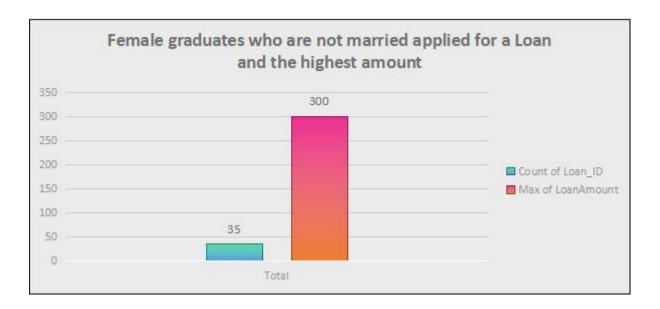
Q1. How many male graduates who are not married applied for Loan? What was the highest amount?

ANS: This analysis shows the no. of male graduates applied for the loan and are not married with the highest amount. As of analysed the total no. of loan applied is 66 and max loan amount is 240.



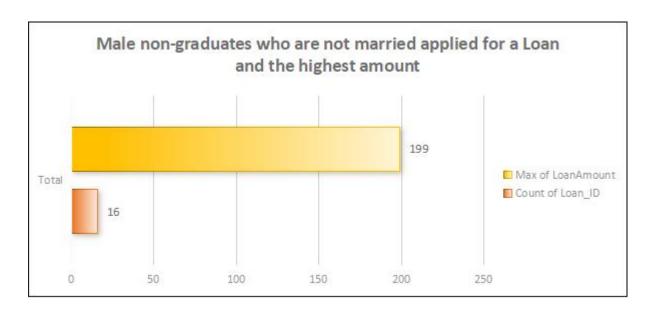
Q2. How many female graduates who are not married applied for Loan? What was the highest amount?

ANS: This analysis shows the no. of female graduates applied for the loan and are not married with the highest amount. As of analyzed the total no. of loan applied is 35 and max loan amount is 300.



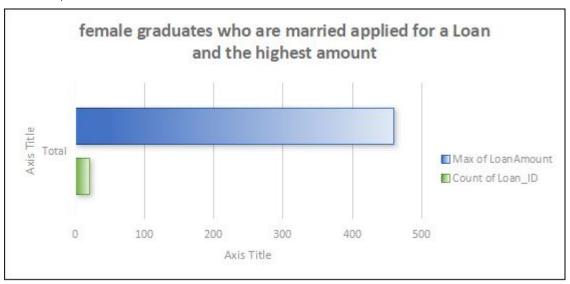
Q3. How many male non-graduates who are not married applied for Loan? What was the highest amount?

ANS: The analysis reveals that among loan applicants, the highest number consists of unmarried male non-graduates, with a total of 16 applications. The maximum loan amount requested is \$199.



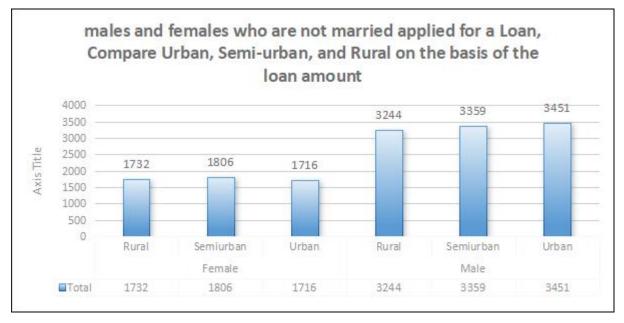
Q4. How many female graduates who are married applied for Loan? What was the highest amount?

ANS: The analysis indicates that the highest number of loan applicants are unmarried female graduates, totaling 21 applications. The maximum loan amount requested among them is \$460.



Q5. How many male and female who are not married applied for Loan? Compare Urban, Semi-urban and rural based on amount.

ANS: This analysis compares loan applications from unmarried females and males across rural, semi-urban, and urban areas. Females have lower application counts: rural (1,732), semi-urban (1,806), and urban (1,716). In contrast, males show significantly higher counts: rural (3,244), semi-urban (3,359), and urban (3,451), indicating a gender disparity in loan applications.



Conclusion and Review

The analysis reveals stark gender disparities in loan applications, with unmarried male graduates leading, followed by unmarried female graduates. Smaller numbers of unmarried male non-graduates and married female graduates also applied. Males outnumbered females across rural, semi-urban, and urban areas. The report effectively illustrates gender-based trends, offering valuable insights into borrower demographics, while suggesting further exploration and visual enhancements for deeper insights.

Regression

Multiple R	0.45908096
R Square	0.21075532
Adjusted R Square	0.20858707
Standard Error	56.0766111
Observations	366

	df	SS	MS	F	Significa nce F
Regressi		289502.	9650	37.32	2.25609
on	3	8035	0.93	019	E-20
		736940.	2585.		
Residual	285	7397	757		
		102644			
Total	288	3.543			

	Coefficie nts	Standar d Error	t Stat	P- value	Lower 95%	Upper 95%	Lower 95.0%	<i>Upper</i> 95.0%
Intercep t	66.6909 52	16.2683 3015	4.099 434	5.41E -05	34.6696 3005	98.7122 7396	34.66 963	98.71 227
X								
Variable	0.09577	0.04564	2.097	0.036	0.00591	0.18562	0.005	0.185
1	1273	9816	955	79	7708	4838	918	625
X								
Variable	0.00580	0.00062	9.250	5.49E	0.00457	0.00704	0.004	0.007
2	7787	7861	122	-18	1955	3619	572	044
X								
Variable	0.00677	0.00126	5.354	1.76E	0.00428	0.00926	0.004	0.009
3	2797	4765	983	-07	3331	2263	283	262

Descriptive Statistics

Column1		Column2		Column3		Column4	
	342.671				1528.26		136.792
Mean	3	Mean	4637.353	Mean	3	Mean	4
Standard	3.86208	Standard		Standard	139.858	Standard	
Error	8	Error	281.8049	Error	8	Error	3.51174
Median	360	Median	3833	Median	879	Median	126
Mode	360	Mode	5000	Mode	0	Mode	150
Standard		Standard		Standard	2377.59	Standard	59.6995
Deviation	65.6555	Deviation	4790.684	Deviation	9	Deviation	8
Sample	4310.64	Sample	2295065	Sample		Sample	
Variance	5	Variance	3	Variance	5652978	Variance	3564.04
					32.9670		5.73980
Kurtosis	8.62994	Kurtosis	141.612	Kurtosis	1	Kurtosis	4
					4.51077		1.78061
Skewness	-2.64147	Skewness	10.41123	Skewness	5	Skewness	6
Range	474	Range	72529	Range	24000	Range	432
Minimum	6	Minimum	0	Minimum	0	Minimum	28
Maximum	480	Maximum	72529	Maximum	24000	Maximum	460
Sum	99032	Sum	1340195	Sum	441668	Sum	39533
Count	289	Count	289	Count	289	Count	289

Correlation

	Column 1	Column 2	Column 3
Column 1	1		
Column 2	-0.08435	1	
Column 3	0.445695	0.230355	1