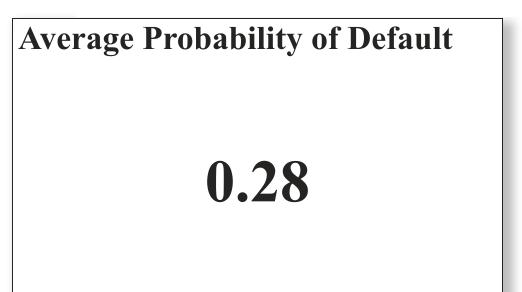
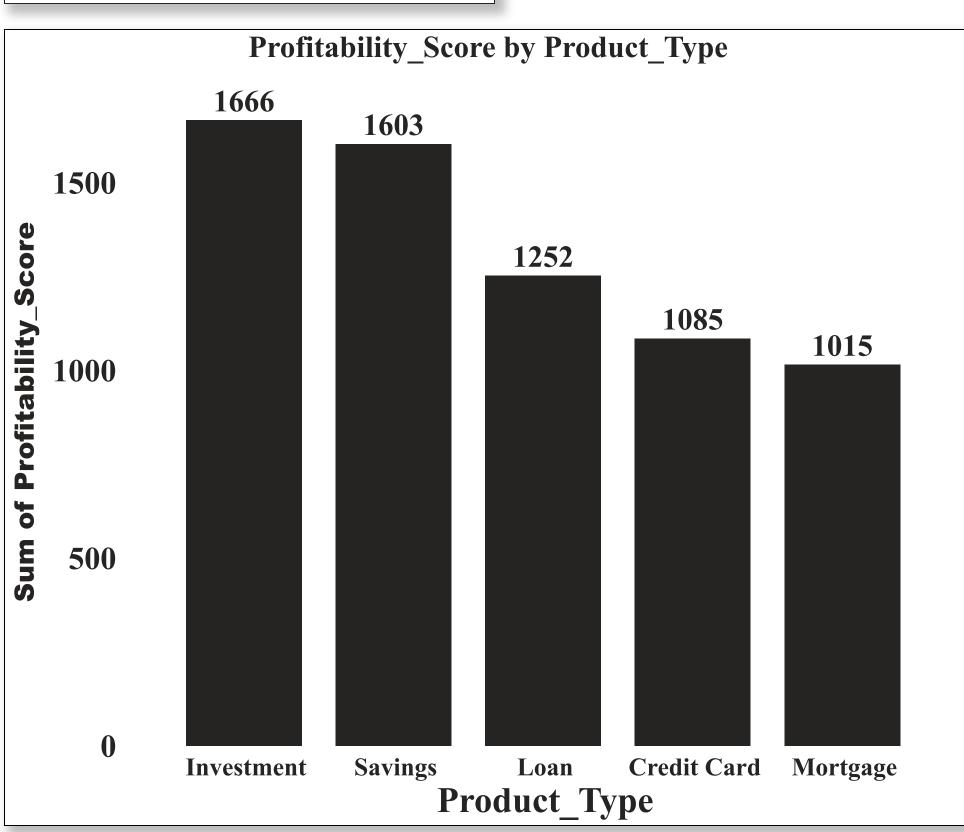
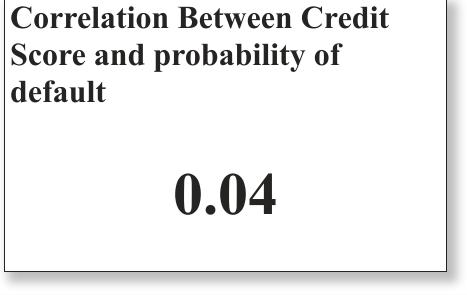
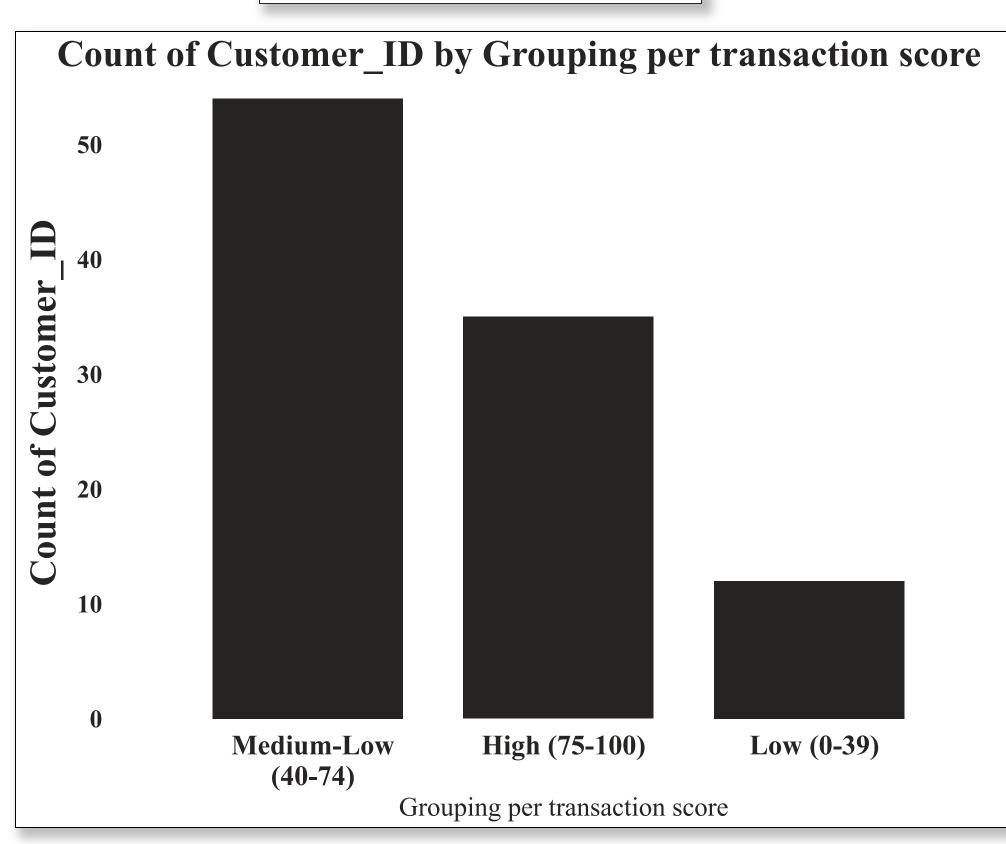
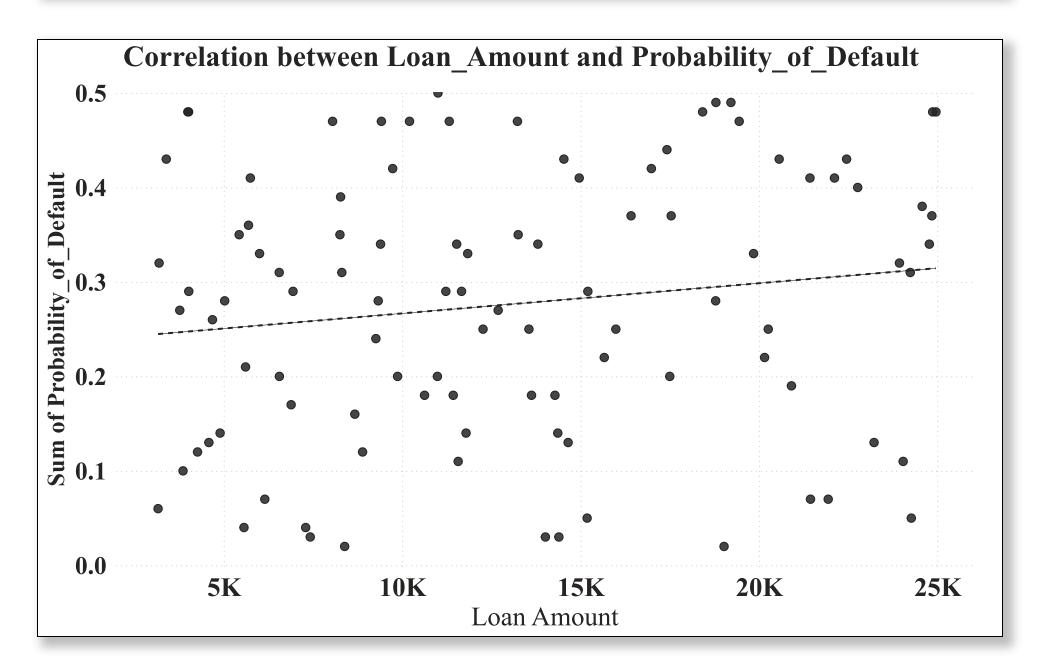
Credit Analysis





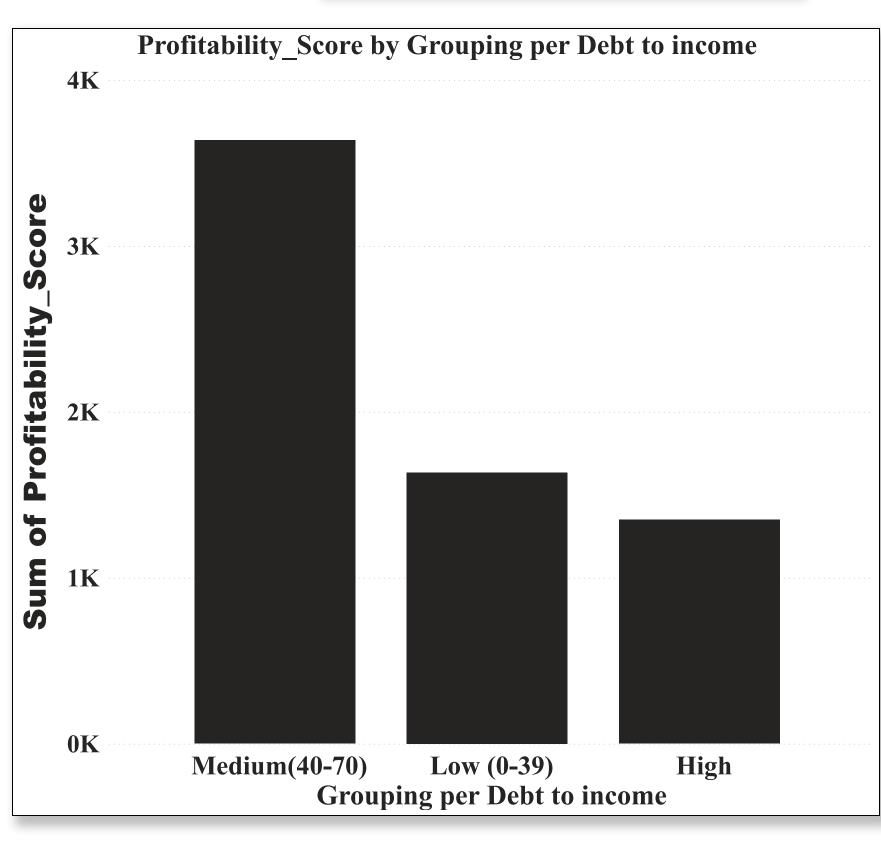


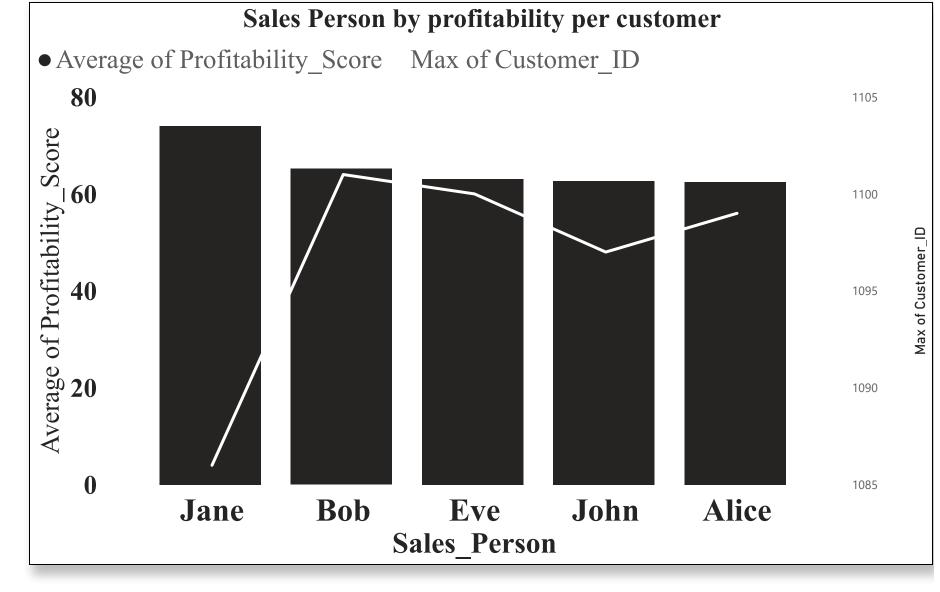




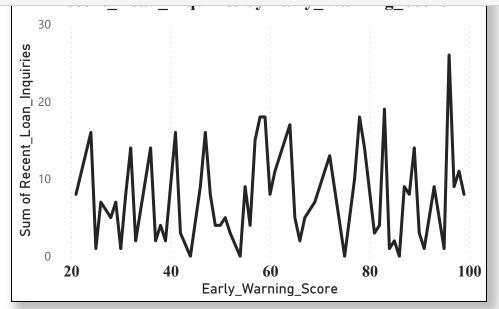


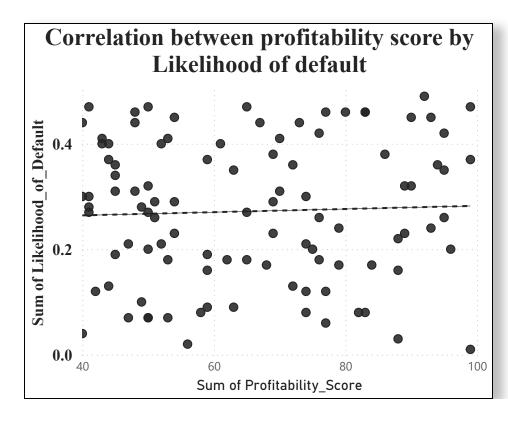


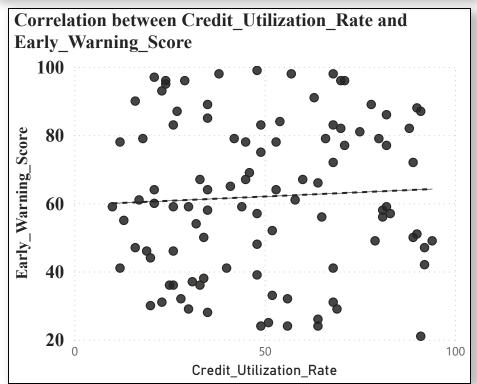




Profitability Per Branch		
Bank_Branch	Sum of Profitability_Score	
Chicago	1462	
Houston	896	
Los Angeles	1367	
Miami	1350	
New York	1546	
Total	6621	







Findings

1)Low Correlation Between Credit Score and Probability of Default

• The correlation coefficient of **0.04** suggests that credit score alone is not a strong predictor of default likelihood. Other factors might have a greater impact.

2) High Default Risk Among Customers with Low Credit Scores

•7.92% of customers have both a credit score below 600 and a high probability of default (>30%), indicating a segment that requires close monitoring.

3) Profitability Score Varies by Product Type

· Investment and savings products show the highest profitability scores, while mortgages and credit cards contribute lower profitability.

4) Debt-to-Income Ratio and Profitability

• Customers with a **moderate debt-to-income ratio** (40-70%) generate the highest profitability, while those with very high debt levels have significantly lower profitability.

5)Salesperson Performance

Jane has the highest average profitability per customer, followed by **Bob and Eve**, indicating strong sales efficiency.

6)Missed Payments and Customer Distribution

• Customers with **2 missed payments** are the highest in number, but significant defaults begin appearing as the missed payments increase.