PROBLEM STATEMENT

BRD 1: SUMMARY

Key Performance Indicators (KPIs) Requirements:

- 1. Total Loan Applications: We need to calculate the total number of loan applications received during a specified period.

 Additionally, it is essential to monitor the Month-to-Date (MTD) Loan Applications.
- 2. Total Funded Amount: Understanding the total amount of funds disbursed as loans is crucial. We also want to keep an eye on the MTD Total Funded Amount metric.
- **3. Total Amount Received:** Tracking the total amount received from borrowers is essential for assessing the bank's cash flow and loan repayment. We should analyse the Month-to-Date (MTD) Total Amount Receive.
- 4. Average Interest Rate: Calculating the average interest rate across all loans which will provide insights into our lending portfolio's overall cost.
- 5. Average Debt-to-Income Ratio (DTI): Evaluating the average DTI for our borrowers helps us gauge their financial health.

 We need to compute the average DTI for all loans.

PROBLEM STATEMENT

BRD 1: SUMMARY

Good Loan v Bad Loan KPI's

Good Loan:

- 1. Good Loan Application Percentage
- 2. Good Loan Applications
- 3. Good Loan Funded Amount
- 4. Good Loan Total Received Amount

Bad Loan

- 1. Bad Loan Application Percentage
- 2. Bad Loan Applications
- 3. Bad Loan Funded Amount
- 4. Bad Loan Total Received Amount

PROBLEM STATEMENT

BRD 2: OVERVIEW

CHARTS

- 1. Monthly Trends by Issue Date (Line/ Area Chart): To identify seasonality and long-term trends in lending activities
- 2. Regional Analysis by State (Bar Chart): To identify regions with significant lending activity and assess regional disparities
- **3. Loan Term Analysis (Donut Chart):** To allow the client to understand the distribution of loans across various term lengths.
- **4. Employee Length Analysis (Bar Chart):** How lending metrics are distributed among borrowers with different employment lengths, helping us assess the impact of employment history on loan applications.
- **5. Loan Purpose Breakdown (Bar Chart): W**ill provide a visual breakdown of loan metrics based on the stated purposes of loans, aiding in the understanding of the primary reasons borrowers seek financing.
- 6. Home Ownership Analysis (Tree/ Heat Map): For a hierarchical view of how home ownership impacts loan applications and disbursements.

Metrics to be shown: 'Total Loan Applications,' 'Total Funded Amount,' and 'Total Amount Received'