BANK LOAN ANALYSIS

To effectively monitor and evaluate our bank's lending activities and performance, we must develop a comprehensive Bank Loan Report. This report offers insights into crucial loan-related metrics and their changes over time, facilitating data-driven decision-making, portfolio health tracking, and strategic lending strategy formulation.

PROBLEM STATEMENT

We have outlined specific Key Performance Indicators (KPIs) to meet this goal:

1. Total Loan Applications: We will calculate the total number of loan applications received within a specified period, alongside monitoring Month-to-Date (MTD) Loan Applications and tracking Month-over-Month (MoM) changes.
2. Total Funded Amount: Understanding the total disbursed funds as loans is vital. We will also observe MTD Total Funded Amount and analyze MoM changes in this metric.
3. Total Amount Received: Tracking the total received amount from borrowers is essential for cash flow assessment and loan repayment evaluation. We will analyze MTD Total Amount Received and MoM changes.
4. Average Interest Rate: Calculating the average interest rate across all loans, MTD, and monitoring MoM variations will provide insights into overall lending portfolio costs.
5. Average Debt-to-Income Ratio (DTI): Evaluating the average DTI for borrowers helps gauge their financial health. We will compute the average DTI for all loans, MTD, and track MoM fluctuations.

Additionally, we will distinguish between 'Good Loans' and 'Bad Loans' based on specific loan status criteria, providing insights into loan performance:

* Good Loan KPIs include metrics such as Good Loan Application Percentage, Good Loan Applications, Good Loan Funded Amount, and Good Loan Total Received Amount.
* Bad Loan KPIs include Bad Loan Application Percentage, Bad Loan Applications, Bad Loan Funded Amount, and Bad Loan Total Received Amount.

Furthermore, we aim to create a grid view report categorized by Loan Status to understand loan performance comprehensively. This report will empower us to make informed decisions and assess the health of our loan portfolio based on metrics like Total Loan Applications, Total Funded Amount, Total Amount Received, MTD Funded Amount, MTD Amount Received, Average Interest Rate, and Average Debt-to-Income Ratio.

In our Bank Loan Report project, we are focusing on visually representing critical loan-related metrics and trends using various chart types. These include Monthly Trends by Issue Date, Regional Analysis by State, Loan Term Analysis, Employee Length Analysis, Loan Purpose Breakdown, and Home Ownership Analysis. Each chart type serves a specific objective in providing insights into lending operations, facilitating data-driven decision-making, and supporting strategic planning.

Lastly, we recognize the need for a comprehensive 'Details Dashboard' to provide users with a consolidated view of essential loan-related metrics and data points. This dashboard aims to offer a user-friendly interface for accessing vital loan data, serving as a one-stop solution for detailed insights into our loan portfolio, borrower profiles, and loan performance.