Power BI DAX Project Details

Index	Heading	Description
1	**Overview:**	Using the TechnoEdge banking dataset, visualize and analyze key metrics such as customer information (name, age, gender), loan details (amount, status), and date-related information (month, quarter, fiscal year) using interactive visuals in Power BI. Gain insights into customers, loans, and trends for informed decision-making and strategic planning.
2	**Skill Pre-requisite:**	
		To become a DAX master in Power BI, there are a few system prerequisites that you need to consider:
	1	Access to Power BI: You will need access to Power BI, either through a personal or enterprise account.
	2	Understanding of data modeling: It's important to have a solid understanding of data modeling concepts, such as relationships, cardinality, and normalization.
	3	Familiarity with Excel: Since DAX is a formula language that originated in Excel, having a basic understanding of Excel functions and formulas can be helpful.
	4	Knowledge of programming concepts: Having a basic understanding of programming concepts like variables, loops, and conditional statements can help you to create more complex DAX formulas.
	5	Practice and experience: Practice is crucial to becoming a DAX master. Continuously working with DAX and analyzing data will help you to develop your skills and gain valuable experience.
3	**System Pre-requisite:**	
		To work with DAX in Power BI, you will need to ensure that your system meets the following prerequisites:
	1	Operating system: You can use DAX with Power BI on Windows 10 or later, Windows Server 2016 or later, or Windows Server 2012 R2.
	2	Processor: A 64-bit processor is required for running Power BI and DAX.
	3	Memory: A minimum of 8GB RAM is recommended for running Power BI and DAX, but higher amounts of memory can improve performance.
	4	Storage: You will need enough storage space for your data and the Power BI application.
	5	Graphics card: A graphics card with at least 1GB of memory is recommended for optimal visual performance.
	6	Internet connection: A reliable internet connection is necessary to access and share data through Power BI.
	7	Power BI Desktop: You will need to download and install Power BI Desktop, which is the version of Power BI that runs on your desktop computer.
	8	Power BI Service: You will also need to sign up for a Power BI service account to publish and share your reports and dashboards.

8	**Objectives**	
	1	To Analyze loan status distribution using a pie chart.
	2	To Compare average annual income by gender using a bar chart.
	3	To Visualize the trend of monthly debt over time using an area chart
	4	To Calculate the total current credit balance and display it in a card visual.
	5	Filter data by calendar quarter using a slicer for more focused analysis.
	6	To Create a bookmark navigator for easy navigation between different time periods in the calendar.
9	**Project Summary:**	Customer and loan information in 'Bank Detail', customer demographics in 'Customer Detail', and date-related information in 'Calendar'. Interactive dashboards provide insights on loan status, amounts, customer demographics, and time-based trends.