



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.
7	Tasks: (DAX Power BI)	

	A	Installation
		Downloading Power BI Desktop.
	B	Data Modeling
		Creating a relationship between tables in the model view of Power BI using a common column improves the accuracy and reliability of data analysis and visualization.
	C	Data view
		Display all geographical datasets in Power BI along with their corresponding data categories, such as city, country, state, and region.
	D	DAX Functions
		Date Functions
		Text Functions
		Logical Functions
		Calculate Functions
		Aggregation Functions
	E	Visual Insights
		Power BI needs DAX functions for visual insights, which manipulate and aggregate data to reveal hidden patterns. Mastering DAX is key to creating compelling visualizations.
	F	Published Report
		Power BI reports can be published and shared with others, making it easy to collaborate and work with others on data analysis projects.
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.

Page Alignment

1	Page Size	16.9
2	Page View	Fit to page
3	Font	Segoe UI Light
4	Title Font Size	16
5	Background	GIF Image
6	Color Code Used	#ADA9F2-Pge Background
		#252423-Visual Title
		# ADA9F2-Visual Background
		# ADA9F2-Company Title
7	Visuals Used	
		Cards
		Slicer
		Area Chart
		Pie Chart
		Clustered Bar Chart
		Text Box