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|  | | Power BI DAX | | Project Details |
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| **Index** | **Heading** | | **Description** | |
| 1 | **Overview:** | | Using the 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: | |
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|  | **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)** | |  | |

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|  |  | **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 |