**DAX (Power BI)**

It’s a **formula language** used to create custom calculations and queries on data in Power BI

1. **Create DATE table**

Then create 3 dags

1. Date Table

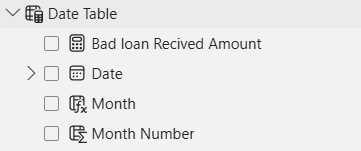
Date Table =CALENDAR(MIN(bank\_loan\_data[issue\_date]),MAX(bank\_loan\_data[issue\_date]))

1. Month Table

Month = FORMAT('Date Table'[Date],"mmm")

1. Month Number

Month Number = MONTH('Date Table'[Date])



1. **Summary Dashboard:**
2. Total Loan applications = count(bank\_loan\_data[id])

Find Month to Date:

MTD Loan Applications = CALCULATE(TOTALMTD([Total Loan applications],'Date Table'[Date]))

Find Previous Month to Date

PMTD Loan Applications = CALCULATE([Total Loan applications],DATESMTD(DATEADD('Date Table'[Date],-1,MONTH)))

Find Month on Month (([MTD] – [PMTD])/[ PMTD])

MoM Loan Application = ([MTD Loan Applications] - [PMTD Loan Applications])/[PMTD Loan Applications]

1. Total Funded Amount = SUM(bank\_loan\_data[loan\_amount])

Find Month to Date:

MTD Funded Amount = CALCULATE(TOTALMTD([Total Funded Amount],'Date Table'[Date]))

Find Previous Month to Date

PMTD Total Funded Amount = CALCULATE([Total Funded Amount],DATESMTD(DATEADD('Date Table'[Date],-1,MONTH)))

Find Month on Month (([MTD] – [PMTD])/[ PMTD])

MoM Total Funded Amount = ([MTD Funded Amount] - [PMTD Total Funded Amount])/[PMTD Total Funded Amount]

1. Total Amount Received = SUM(bank\_loan\_data[total\_payment])

Find Month to Date:

MTD Total AMount Received = CALCULATE(TOTALMTD([Total Amount Received],'Date Table'[Date]))

Find Previous Month to Date

PMTD Total Recieved amount = CALCULATE([Total Amount Received],DATESMTD(DATEADD('Date Table'[Date],-1,MONTH)))

Find Month on Month (([MTD] – [PMTD])/[ PMTD])

MoM Total AMount received = ([MTD Total AMount Received] - [PMTD Total Recieved amount])/[PMTD Total Recieved amount]

1. Avg Interest Rate = AVERAGE(bank\_loan\_data[int\_rate])

Find Month to Date:

MTD Avg interest rate = CALCULATE(TOTALMTD([Avg Interest Rate],'Date Table'[Date]))

Find Previous Month to Date

PMTD Avg interest rate = CALCULATE([Avg Interest Rate],DATESMTD(DATEADD('Date Table'[Date],-1,MONTH)))

Find Month on Month (([MTD] – [PMTD])/[ PMTD])

MoM avg interest rate = ([MTD Avg interest rate] - [PMTD Avg interest rate])/[PMTD Avg interest rate]

1. Avg DtI = AVERAGE(bank\_loan\_data[dti])

Find Month to Date:

MTD Avg DTI = CALCULATE(TOTALMTD([Avg DtI],'Date Table'[Date]))

Find Previous Month to Date

PMTD Avg DTI = CALCULATE([Avg DtI],DATESMTD(DATEADD('Date Table'[Date],-1,MONTH)))

Find Month on Month (([MTD] – [PMTD])/[ PMTD])

MoM avg DTI = ([MTD Avg DTI] - [PMTD Avg DTI])/[PMTD Avg DTI]

**GOOD LOAN VS BAD LOAN**

1. Good loan Percentage

Good Loan % = (CALCULATE([Total Loan applications], bank\_loan\_data[Good vs Bad Group] = "Good Loan"))/ [Total Loan applications]

1. Good loan application

Good loan application = CALCULATE([Total Loan applications], bank\_loan\_data[Good vs Bad Group]= "Good Loan")

1. Good loan Funded amount

Good loan Funded amount = CALCULATE([Total Funded Amount], bank\_loan\_data[Good vs Bad Group]= "Good Loan")

1. Good loan Funded amount

Good loan Recived Amount = CALCULATE([Total Amount Received], bank\_loan\_data[Good vs Bad Group]= "Good Loan")

1. Bad loan Percentage

Bad Loan % = (CALCULATE([Total Loan applications], bank\_loan\_data[Good vs Bad Group] = "Bad Loan"))/ [Total Loan applications]

1. Bad loan application

bad loan application = CALCULATE([Total Loan applications], bank\_loan\_data[Good vs Bad Group]= "Bad Loan")

1. Bad loan Funded amount

bad loan Funded amount = CALCULATE([Total Funded Amount], bank\_loan\_data[Good vs Bad Group]= "Bad Loan")

1. BAd loan Funded amount

Good loan Recived Amount = CALCULATE([Total Amount Received], bank\_loan\_data[Good vs Bad Group]= "Bad Loan")

**\*\*Make a Group of Good vs Bad Group**

**Create a Select measure :**

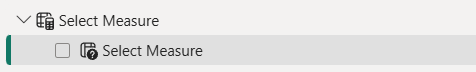
Select Measure = {

    ("Total Amount Received", NAMEOF('bank\_loan\_data'[Total Amount Received]), 0),

    ("Total Funded Amount", NAMEOF('bank\_loan\_data'[Total Funded Amount]), 1),

    ("Total Loan applications", NAMEOF('bank\_loan\_data'[Total Loan applications]), 2)

}

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