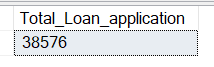
LOAN ANALYSIS |QUERY DOCUMENT|

1.Total no. of Loan Application

Select COUNT(id) AS Total\_Loan\_application FROM Bank\_data



2.Month-to-date Total Loan Application

Select COUNT(id) AS MTD\_Total\_Loan\_application FROM Bank\_data

WHERE MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021

****

3. Previous Month-to-Date total Loan Application

Select COUNT(id) AS PMTD\_Total\_Loan\_application FROM Bank\_data

WHERE MONTH(issue\_date) = 11 AND YEAR(issue\_date) = 2021



4.Total Funded Amount

Select SUM(loan\_amount) AS Total\_Funded\_Amount FROM Bank\_data



5.Month-to-Date Total Funded Amount

Select SUM(loan\_amount) AS MTD\_Total\_Funded\_Amount FROM Bank\_data

WHERE MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021



6.Previous Month-to-Date Total Funded Amount

Select SUM(loan\_amount) AS PMTD\_Total\_Funded\_Amount FROM Bank\_data

WHERE MONTH(issue\_date) = 11 AND YEAR(issue\_date) = 2021



7.Total Amount Received

Select SUM(total\_payment) AS Total\_Amount\_Recieved FROM Bank\_data



8.Month-to-Date Total Amount Received

Select SUM(total\_payment) AS MTD\_Total\_Amount\_Recieved FROM Bank\_data

WHERE MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021



9.Previous Month-to-Date Total Amount Received

Select SUM(total\_payment) AS PMTD\_Total\_Amount\_Recieved FROM Bank\_data

WHERE MONTH(issue\_date) = 11 AND YEAR(issue\_date) = 2021



10.Average Interest Rate

Select ROUND(AVG(int\_rate),4)\*100 AS Average\_Interest\_Rate FROM Bank\_data



11.Month-to-Date Average Interest Rate

Select ROUND(AVG(int\_rate),4)\*100 AS MTD\_Average\_Interest\_Rate FROM Bank\_data

WHERE MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021



11.Previous Month-to-Date Average Interest Rate

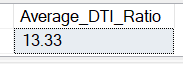
Select ROUND(AVG(int\_rate),4)\*100 AS PMTD\_Average\_Interest\_Rate FROM Bank\_data

WHERE MONTH(issue\_date) = 11 AND YEAR(issue\_date) = 2021



12.Average Debt-to-Income Ratio

Select ROUND(AVG(dti),4)\*100 AS Average\_DTI\_Ratio FROM Bank\_data



13.Month-to-Date Average Debt-to-Income Ratio

Select ROUND(AVG(dti),4)\*100 AS MTD\_Average\_DTI\_Ratio FROM Bank\_data

WHERE MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021



14.Previous Month-to-Date Average Debt-to-Income Ratio

Select ROUND(AVG(dti),4)\*100 AS PMTD\_Average\_DTI\_Ratio FROM Bank\_data

WHERE MONTH(issue\_date) = 11 AND YEAR(issue\_date) = 2021



15.Good Loan Application Percentage

SELECT

(COUNT(CASE WHEN loan\_status='Fully Paid' OR loan\_status='Current' Then id END)\*100)

/

COUNT(id) AS Good\_Loan\_Application\_Percentage

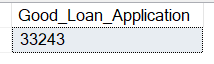
FROM bank\_data



16.Good Loan Application

SELECT COUNT(CASE WHEN loan\_status='Fully Paid' OR loan\_status='Current' Then id END) AS Good\_Loan\_Application

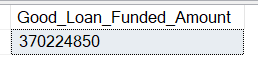
FROM bank\_data



17.Good Loan Funded Amount

SELECT SUM(loan\_amount) AS Good\_Loan\_Funded\_Amount FROM bank\_data

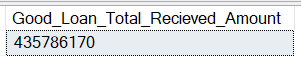
WHERE loan\_status='Fully Paid' OR loan\_status='Current'



18.Good Loan Total Received Amount

SELECT SUM(total\_payment) AS Good\_Loan\_Total\_Recieved\_Amount FROM bank\_data

WHERE loan\_status='Fully Paid' OR loan\_status='Current'



19.Bad Loan Application Percentage

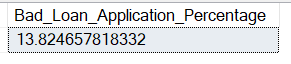
Select

(COUNT(CASE WHEN loan\_status ='Charged Off' THEN id END)\*100.0)

/

COUNT(id) AS Bad\_Loan\_Application\_Percentage

FROM bank\_data



20.Bad Loan Application

SELECT COUNT(id) AS Bad\_Loan\_Application FROM Bank\_data

WHERE loan\_status ='Charged Off'



21.Bad Loan Funded Amount

SELECT SUM(loan\_amount) AS Bad\_Loan\_Funded\_Amount FROM Bank\_data

WHERE loan\_status ='Charged Off'



22.Bad Loan Total Received Amount

SELECT SUM(total\_payment) AS Bad\_Loan\_Total\_Recieved\_Amount FROM Bank\_data

WHERE loan\_status ='Charged Off'



23.Loan Status

SELECT

loan\_status,

COUNT(id) AS Total\_Loan\_Application,

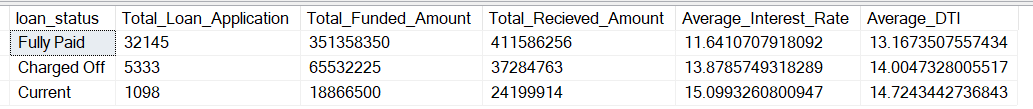
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Recieved\_Amount,

AVG(int\_rate\*100) AS Average\_Interest\_Rate,

AVG(dti\*100) AS Average\_DTI

FROM Bank\_data GROUP BY loan\_status



SElECT loan\_status,

SUM(loan\_amount) AS MTD\_Total\_Funded\_Amount,

SUM(total\_payment) AS MTD\_Total\_Amount\_Recieved

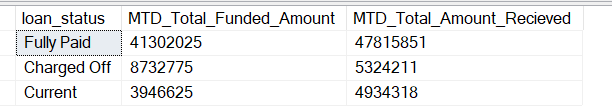
FROM Bank\_data

WHERE

MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021

GROUP BY

loan\_status



24.Monthly Trend By Issue Date

SELECT

MONTH(issue\_date) AS month\_number,

DATENAME(MONTH,issue\_date) AS month\_name,

COUNT(id) AS Total\_Loan\_Application,

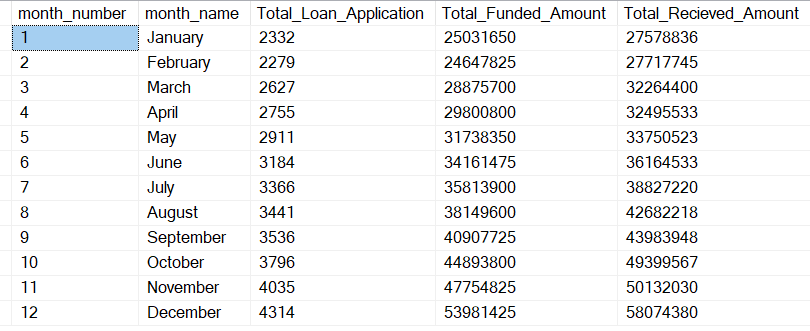
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Recieved\_Amount

FROM Bank\_data

GROUP BY MONTH(issue\_date) , DATENAME(MONTH,issue\_date)

ORDER BY MONTH(issue\_date)



25.Regional Analysis By State

SELECT

address\_state,

COUNT(id) AS Total\_Loan\_Application,

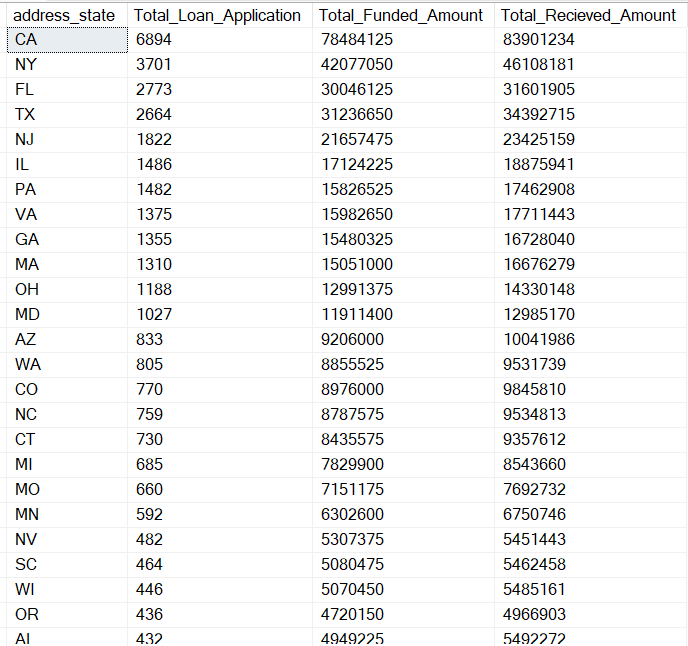
SUM(loan\_amount) AS Total\_Funded\_Amount,

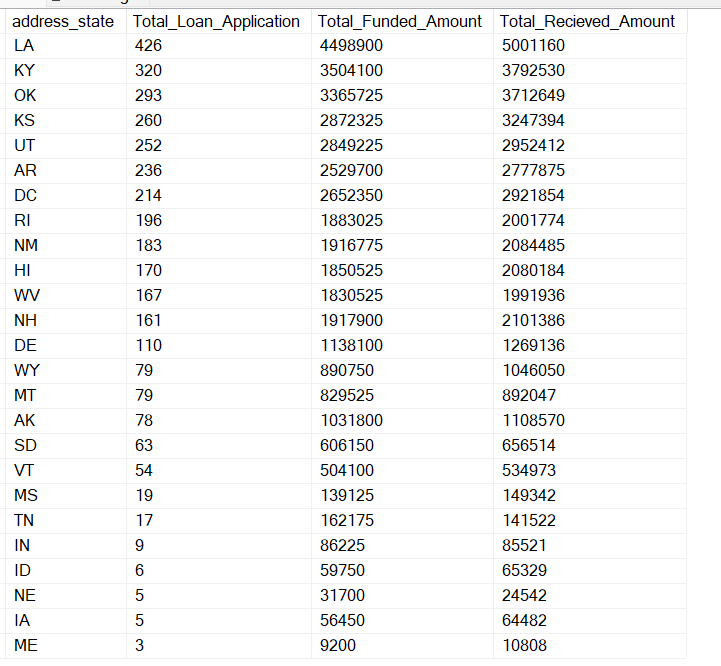
SUM(total\_payment) AS Total\_Recieved\_Amount

FROM Bank\_data

GROUP BY address\_state

ORDER BY COUNT(id) DESC





26.Loan Term Analysis

SELECT

term,

COUNT(id) AS Total\_Loan\_Application,

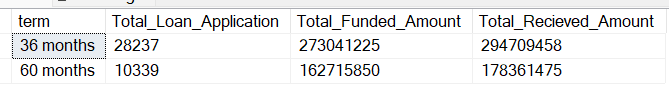
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Recieved\_Amount

FROM Bank\_data

GROUP BY term

ORDER BY COUNT(id) DESC



27.Employee Length Analysis

SELECT

emp\_length,

COUNT(id) AS Total\_Loan\_Application,

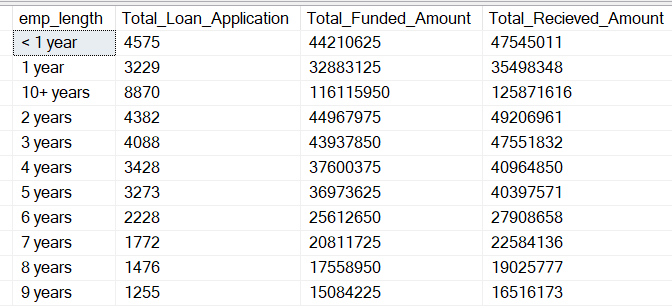
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Recieved\_Amount

FROM Bank\_data

GROUP BY emp\_length

ORDER BY emp\_length



28.Loan Purpose Breakdown

SELECT

purpose,

COUNT(id) AS Total\_Loan\_Application,

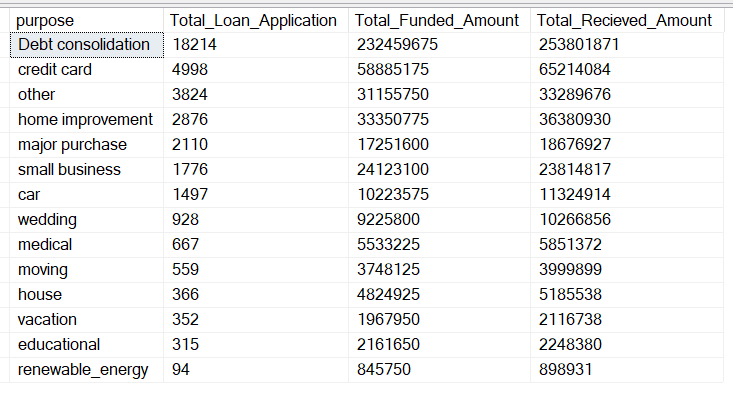
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Recieved\_Amount

FROM Bank\_data

GROUP BY purpose

ORDER BY COUNT(id) DESC



29.Home Ownership Analysis

SELECT

home\_ownership,

COUNT(id) AS Total\_Loan\_Application,

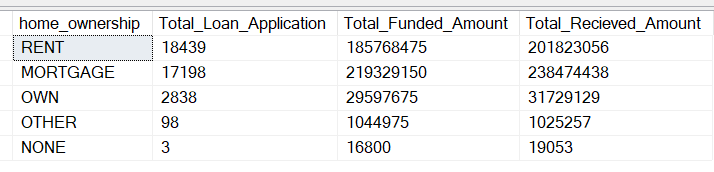
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Recieved\_Amount

FROM Bank\_data

GROUP BY home\_ownership

ORDER BY COUNT(id) DESC



DAX Query:-

For all date in new table:-

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