**BANK LOAN REPORT QUERY DOCUMENT**

1. **BANK LOAN REPORT | SUMMARY**

**KPI’s:**

-- Total Loan Applications

SELECT COUNT(id) AS Total\_Loan\_Applications

FROM bank\_loan\_data



-- Month to Date Applications

SELECT COUNT(id) AS Month\_to\_Date\_Applications

FROM bank\_loan\_data

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



--Previous Month to Date

SELECT COUNT(id) AS Previous\_Month\_to\_Date\_Applications

FROM bank\_loan\_data

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



--Total Funded Amount

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

From bank\_loan\_data



--Month to Date Funded Amount

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

From bank\_loan\_data

Where MONTH(issue\_date)=12 and YEAR(issue\_date) = 2021



-- Previous Month to Date Funded Amount

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

From bank\_loan\_data

Where MONTH(issue\_date)=11 and YEAR(issue\_date) = 2021



--Total Amount Received

SELECT SUM(total\_payment) as Total\_Collected

FROM bank\_loan\_data



--Month To Date Amount Received

SELECT SUM(total\_acc) AS Total\_Collected

From bank\_loan\_data

Where MONTH(issue\_date)=12 and YEAR(issue\_date) = 2021



--Previous Month To Date Amount Received

SELECT SUM(total\_acc) AS Total\_Collected

From bank\_loan\_data

Where MONTH(issue\_date)=11 and YEAR(issue\_date) = 2021



--Average Interest Rate

SELECT ROUND(AVG(int\_rate)\*100,2) AS Average\_Interest\_Rate

FROM bank\_loan\_data



--Month to Date Average Interest Rate

SELECT ROUND(AVG(int\_rate)\*100,2) AS MTD\_Average\_Interest\_Rate

FROM bank\_loan\_data

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



--Previous Month to Date Average Interest Rate

SELECT ROUND(AVG(int\_rate)\*100,2) AS MTD\_Average\_Interest\_Rate

FROM bank\_loan\_data

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



--Average Debt to Income Ratio (DTI)

SELECT ROUND(AVG(dti)\*100,2) AS DTI\_AVG

FROM bank\_loan\_data



--Month to Date Debt to Income Ratio (DTI)

SELECT ROUND(AVG(dti)\*100,2) AS MTD\_DTI

FROM bank\_loan\_data

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



--Previous Month to Date Debt to Income Ratio (DTI)

SELECT ROUND(AVG(dti)\*100,2) AS MTD\_DTI

FROM bank\_loan\_data

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



--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\_Percentage

FROM bank\_loan\_data



--Good Loan Applicants

SELECT (COUNT(CASE WHEN loan\_status = 'Fully Paid' or Loan\_status ='Current' THEN id END)) AS Good\_Loan\_Applicants

FROM bank\_loan\_data

SELECT COUNT(id) AS Good\_Loan\_Applicants

From bank\_loan\_data

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



--Good Loan Funded Amount

SELECT SUM(loan\_amount) AS Good\_Loan\_Funded

From bank\_loan\_data

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



--Good Loan Received Amount

SELECT SUM(total\_payment) AS Good\_Loan\_Received

From bank\_loan\_data

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



--Bad Loan Application Percentage

SELECT (COUNT(CASE WHEN loan\_status = 'Charged OFF' THEN id END)\*100)

/ COUNT(id) as Bad\_loan\_Percentage

FROM bank\_loan\_data



--Bad Loan Applicants

SELECT (COUNT(CASE WHEN loan\_status = 'Charged OFF'THEN id END)) AS Bad\_Loan\_Applicants

FROM bank\_loan\_data

SELECT COUNT(id) AS Bad\_Loan\_Applicants

From bank\_loan\_data

WHERE loan\_status = 'Charged OFF'



--Bad Loan Funded Amount

SELECT SUM(loan\_amount) AS Bad\_Loan\_Funded

From bank\_loan\_data

WHERE loan\_status = 'Charged Off'



--Bad Loan Received Amount

SELECT SUM(total\_payment) AS Bad\_Loan\_Received

From bank\_loan\_data

WHERE loan\_status = 'Charged Off'



-- Loan Status Overview

SELECT loan\_status, COUNT(id) AS Loan\_Applications, SUM(loan\_amount) AS Total\_Funded\_Amount, SUM(total\_payment) AS Total\_Amount\_Received ,

ROUND(AVG(int\_rate \*100),2) AS Interest\_Rate\_Percentage, ROUND(AVG(dti \*100),2) AS DTI\_Percentage

FROM bank\_loan\_data

GROUP BY loan\_status

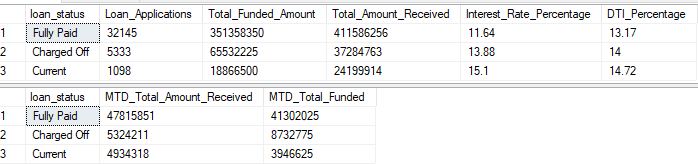
--Adding the MTD overview

SELECT loan\_status, SUM(total\_payment) AS MTD\_Total\_Amount\_Received, SUM(loan\_amount) AS MTD\_Total\_Funded

FROM bank\_loan\_data

WHERE MONTH(issue\_date) = 12

GROUP BY loan\_status



--MOM Trend Overview

Select

MONTH(issue\_date) AS Month\_Number,

DATENAME(MONTH, issue\_date) AS Months, ---this date name is used to convert the date to month in the issue date comlumn

COUNT(id) AS Total\_Loan\_Applications,

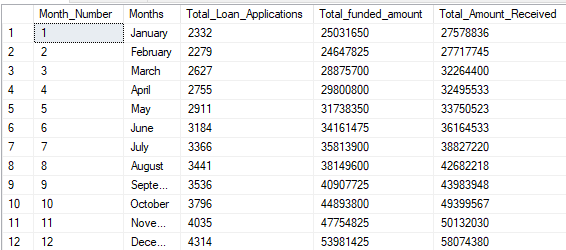
SUM(loan\_amount) AS Total\_funded\_amount,

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

FROM bank\_loan\_data

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

ORDER BY MONTH (issue\_date)



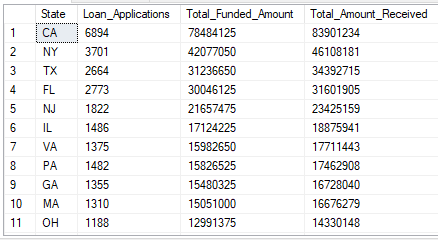
-- Loan Status Geo Overview

SELECT address\_state AS State, COUNT(id) AS Loan\_Applications, SUM(loan\_amount) AS Total\_Funded\_Amount, SUM(total\_payment) AS Total\_Amount\_Received

FROM bank\_loan\_data

GROUP BY address\_state

ORDER BY SUM(loan\_amount) DESC



-- Loan Terms Overview

SELECT term AS Loan\_Term, COUNT(id) AS Loan\_Applications, SUM(loan\_amount) AS Total\_Funded\_Amount, SUM(total\_payment) AS Total\_Amount\_Received

FROM bank\_loan\_data

GROUP BY term

ORDER BY term DESC



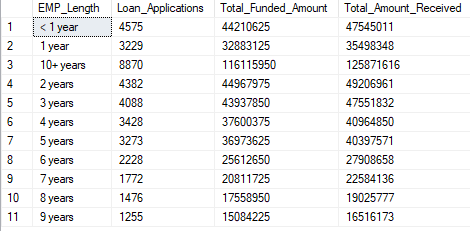
-- Employee Length Overview

SELECT emp\_length AS EMP\_Length, COUNT(id) AS Loan\_Applications, SUM(loan\_amount) AS Total\_Funded\_Amount, SUM(total\_payment) AS Total\_Amount\_Received

FROM bank\_loan\_data

GROUP BY emp\_length

ORDER BY emp\_length



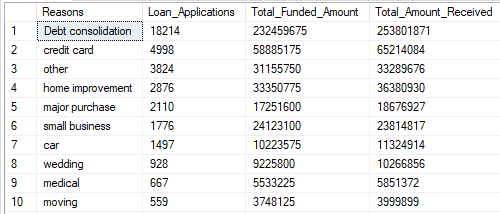
-- Purpose of Loan Overview

SELECT purpose AS Reasons, COUNT(id) AS Loan\_Applications, SUM(loan\_amount) AS Total\_Funded\_Amount, SUM(total\_payment) AS Total\_Amount\_Received

FROM bank\_loan\_data

GROUP BY purpose

ORDER BY COUNT(id) DESC



-- Home Ownership Overview

SELECT home\_ownership AS Reasons, COUNT(id) AS Loan\_Applications, SUM(loan\_amount) AS Total\_Funded\_Amount, SUM(total\_payment) AS Total\_Amount\_Received

FROM bank\_loan\_data

GROUP BY home\_ownership

ORDER BY COUNT(id) DESC

