**Bank Loan Report – Query Doc**

**KPI’s**

**Total Loan Applications**

SELECT COUNT(id) AS Total\_Loan\_Applications

FROM bank\_loan\_data;



**Month-To-Date Total Loan Applications**

SELECT COUNT(id) AS MTD\_Total\_Loan\_Applications

FROM bank\_loan\_data

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



**Previous Month-To-Date Total Loan Applications**

SELECT COUNT(id) AS PMTD\_Total\_Loan\_Applications

FROM bank\_loan\_data

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



**Total Funded Amount**

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

FROM bank\_loan\_data;



**MTD Total Funded Amount**

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

FROM bank\_loan\_data

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



**PMTD Total Funded Amount**

SELECT SUM(loan\_amount) AS PMTD\_Total\_Funded\_Amount

FROM bank\_loan\_data

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



**Total Received Amount**

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

FROM bank\_loan\_data;



**MTD Total Received Amount**

SELECT SUM(total\_payment) AS MTD\_Total\_Received\_Amount

FROM bank\_loan\_data

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



**PMTD Total Received Amount**

SELECT SUM(total\_payment) AS PMTD\_Total\_Received\_Amount

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 Avg\_Interest\_Rate

FROM bank\_loan\_data;



**MTD Average Interest Rate**

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

FROM bank\_loan\_data

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



**PMTD Average Interest Rate**

SELECT ROUND(AVG(int\_rate)\*100,2) AS PMTD\_Avg\_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 Avg\_DTI

FROM bank\_loan\_data;



**MTD Average Debt-to-Income Ratio**

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

FROM bank\_loan\_data

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



**PMTD Average Debt-to-Income Ratio**

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

FROM bank\_loan\_data

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



**GOOD LOAN ISSUED**

**Good Loan Percentage**

SELECT

(COUNT(CASE WHEN loan\_status = 'Fully Paid' OR loan\_status = 'Current' THEN id END) \* 100.0)

/

COUNT(id) AS Good\_Loan\_Percentage

FROM bank\_loan\_data;



**Good Loan Applications**

SELECT COUNT(id) AS Good\_Loan\_Applications

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\_Amount

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\_Amount

FROM bank\_loan\_data

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



**BAD LOAN ISSUED**

**Bad Loan Percentage**

SELECT

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

/

COUNT(id) AS Bad\_Loan\_Percentage

FROM bank\_loan\_data;



**Bad Loan Applications**

SELECT COUNT(id) AS Bad\_Loan\_Applications

FROM bank\_loan\_data

WHERE loan\_status = 'Charged Off';



**Bad Loan Funded Amount**

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

FROM bank\_loan\_data

WHERE loan\_status = 'Charged Off';



**Bad Loan Received Amount**

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

FROM bank\_loan\_data

WHERE loan\_status = 'Charged Off';



**LOAN STATUS GRID VIEW**

SELECT

loan\_status,

COUNT(id) AS Total\_Loan\_Applications,

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

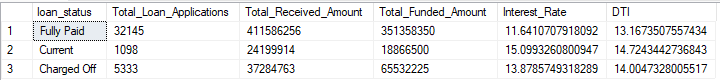
SUM(loan\_amount) AS Total\_Funded\_Amount,

AVG(int\_rate \* 100) AS Interest\_Rate,

AVG(dti \* 100) AS DTI

FROM bank\_loan\_data

GROUP BY loan\_status;



SELECT

loan\_status,

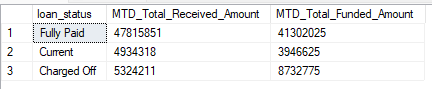
SUM(total\_payment) AS MTD\_Total\_Received\_Amount,

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

FROM bank\_loan\_data

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

GROUP BY loan\_status;



**OVERVIEW CHARTS**

**Monthly Trends by Issue Date**

SELECT

DATENAME(MONTH, issue\_date) AS Month,

COUNT(id) AS Total\_Loan\_Applications,

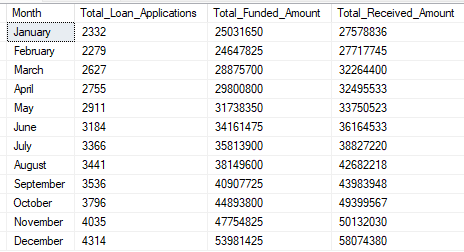
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

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

ORDER BY MONTH(issue\_date);



**Regional Analysis by State**

SELECT

address\_state,

COUNT(id) AS Total\_Loan\_Applications,

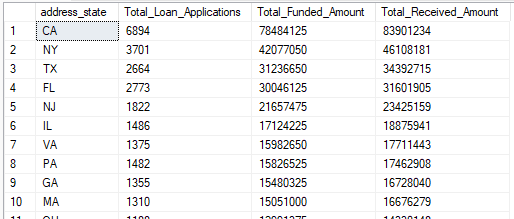
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY address\_state

ORDER BY SUM(loan\_amount) DESC;



**Loan Term Analysis**

SELECT

term,

COUNT(id) AS Total\_Loan\_Applications,

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

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

FROM bank\_loan\_data

GROUP BY term

ORDER BY term;



**Employment Length Analysis**

SELECT

emp\_length,

COUNT(id) AS Total\_Loan\_Applications,

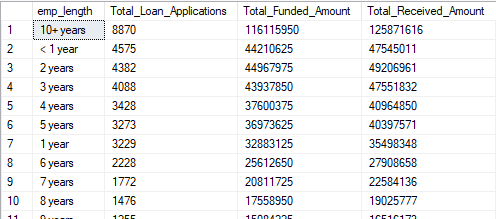
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY emp\_length

ORDER BY COUNT(id) DESC;



**Loan Purpose Breakdown**

SELECT

REPLACE(LOWER(purpose),'\_',' ') AS Loan\_Purpose,

COUNT(id) AS Total\_Loan\_Applications,

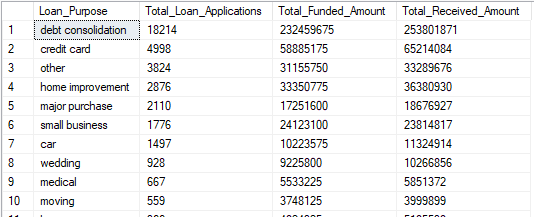
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY purpose

ORDER BY COUNT(id) DESC;



**Home Ownership Analysis**

SELECT

home\_ownership,

COUNT(id) AS Total\_Loan\_Applications,

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

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

FROM bank\_loan\_data

GROUP BY home\_ownership

ORDER BY COUNT(id) DESC;

