**BANK LOAN REPORT QUERY DOCUMENT**

1. **BANK LOAN REPORT | SUMMARY**

**KPI’s:**

**Total Loan Applications**

SELECT COUNT(id) AS Total\_Applications FROM loan;



**MTD Loan Applications**

SELECT COUNT(id) AS Total\_MTD\_Applications FROM loan

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



**PMTD Loan Applications**

SELECT COUNT(id) AS Total\_PMTD\_Applications FROM loan

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



**Total Funded Amount**

SELECT FORMAT(SUM(loan\_amount), 0) AS Total\_Funded\_Amount FROM loan;



**MTD Total Funded Amount**

SELECT FORMAT(SUM(loan\_amount), 0) AS Total\_MTD\_Funded\_Amount FROM loan

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



**PMTD Total Funded Amount**

SELECT FORMAT(SUM(loan\_amount), 0) AS Total\_PMTD\_Funded\_Amount FROM loan

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



**Total Amount Received**

SELECT FORMAT(SUM(total\_payment), 0) AS Total\_Amount\_Collected FROM loan;



**MTD Total Amount Received**

SELECT FORMAT(SUM(total\_payment), 0) AS Total\_MTD\_Amount\_Collected FROM loan

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



**PMTD Total Amount Received**

SELECT FORMAT(SUM(total\_payment), 0) AS Total\_PMTD\_Amount\_Collected FROM loan

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



**Average Interest Rate**

SELECT AVG(int\_rate)\*100 AS Avg\_Int\_Rate

FROM loan;



**MTD Average Interest**

SELECT AVG(int\_rate)\*100 AS MTD\_Avg\_Int\_Rate FROM loan

WHERE MONTH(issue\_date) = 12;



**PMTD Average Interest**

SELECT AVG(int\_rate)\*100 AS PMTD\_Avg\_Int\_Rate FROM loan

WHERE MONTH(issue\_date) = 11;



**Avg DTI**

SELECT AVG(dti)\*100 AS Avg\_DTI FROM loan;



**MTD Avg DTI**

SELECT AVG(dti)\*100 AS MTD\_Avg\_DTI FROM loan

WHERE MONTH(issue\_date) = 12;



**PMTD Avg DTI**

SELECT AVG(dti)\*100 AS PMTD\_Avg\_DTI FROM loan

WHERE MONTH(issue\_date) = 11;



**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 loan;



**Good Loan Applications**

SELECT COUNT(id) AS Good\_Loan\_Applications FROM loan

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



**Good Loan Funded Amount**

SELECT FORMAT(SUM(loan\_amount), 0) AS Good\_Loan\_Funded\_amount FROM loan

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



**Good Loan Amount Received**

SELECT FORMAT(SUM(total\_payment), 0) AS Good\_Loan\_amount\_received FROM loan

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 loan;



**Bad Loan Applications**

SELECT COUNT(id) AS Bad\_Loan\_Applications FROM loan

WHERE loan\_status = 'Charged Off';



**Bad Loan Funded Amount**

SELECT FORMAT(SUM(loan\_amount), 0) AS Bad\_Loan\_Funded\_amount FROM loan

WHERE loan\_status = 'Charged Off';



**Bad Loan Amount Received**

SELECT FORMAT(SUM(total\_payment), 0) AS Bad\_Loan\_amount\_received FROM loan

WHERE loan\_status = 'Charged Off';



**LOAN STATUS**

WITH CTE AS (

SELECT

loan\_status,

COUNT(id) AS LoanCount,

FORMAT(SUM(total\_payment), 0) AS Total\_Amount\_Received,

FORMAT(SUM(loan\_amount), 0) AS Total\_Funded\_Amount,

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

AVG(dti \* 100) AS DTI

FROM

loan

GROUP BY

loan\_status)

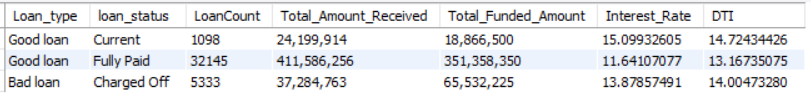
SELECT CASE WHEN loan\_status= 'Current' OR loan\_status= 'Fully Paid' THEN 'Good loan'

ELSE 'Bad loan' END AS Loan\_type,

loan\_status, LoanCount, Total\_Amount\_Received, Total\_Funded\_Amount, Interest\_Rate, DTI

FROM CTE

GROUP BY loan\_status;



WITH CTE AS (

SELECT

loan\_status,

FORMAT(SUM(total\_payment), 0) AS MTD\_Total\_Amount\_Received,

FORMAT(SUM(loan\_amount), 0) AS MTD\_Total\_Funded\_Amount

FROM loan

WHERE MONTH(issue\_date) = 12

GROUP BY loan\_status)

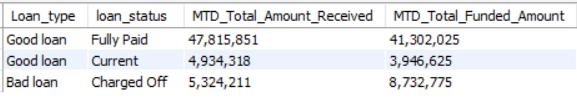
SELECT CASE WHEN loan\_status= 'Current' OR loan\_status= 'Fully Paid' THEN 'Good loan'

ELSE 'Bad loan' END AS Loan\_type,

loan\_status, MTD\_Total\_Amount\_Received, MTD\_Total\_Funded\_Amount

FROM CTE

GROUP BY loan\_status;



1. **BANK LOAN REPORT | OVERVIEW**

**MONTH**

SELECT

MONTH(issue\_date) AS Month\_Number,

MONTHNAME(issue\_date) AS Month\_name,

COUNT(id) AS Total\_Loan\_Applications,

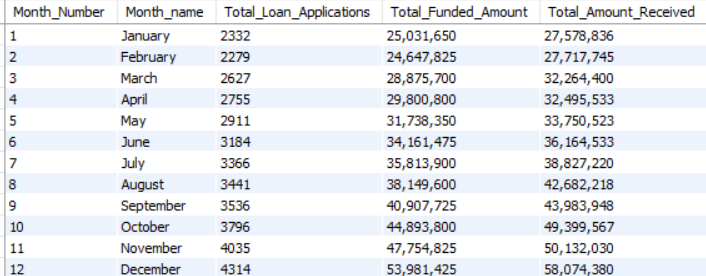
FORMAT(SUM(loan\_amount), 0) AS Total\_Funded\_Amount,

FORMAT(SUM(total\_payment), 0) AS Total\_Amount\_Received

FROM loan

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

ORDER BY MONTH(issue\_date);



**STATE**

SELECT

address\_state AS State,

COUNT(id) AS Total\_Loan\_Applications,

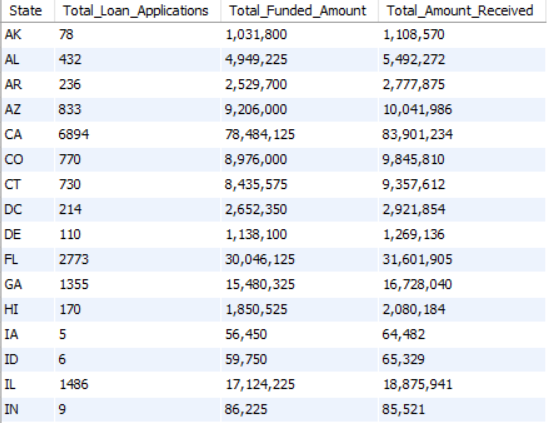
FORMAT(SUM(loan\_amount), 0) AS Total\_Funded\_Amount,

FORMAT(SUM(total\_payment), 0) AS Total\_Amount\_Received

FROM loan

GROUP BY address\_state

ORDER BY address\_state;



**TERM**

SELECT

term AS Term,

COUNT(id) AS Total\_Loan\_Applications,

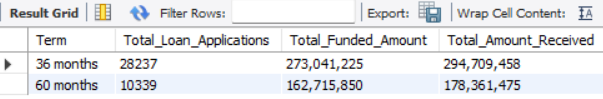
FORMAT(SUM(loan\_amount), 0) AS Total\_Funded\_Amount,

FORMAT(SUM(total\_payment), 0) AS Total\_Amount\_Received

FROM loan

GROUP BY term

ORDER BY term;



**EMPLOYEE LENGTH**

SELECT

emp\_length AS Employee\_Length,

COUNT(id) AS Total\_Loan\_Applications,

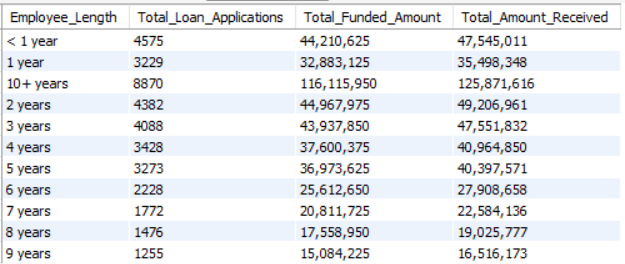
FORMAT(SUM(loan\_amount), 0) AS Total\_Funded\_Amount,

FORMAT(SUM(total\_payment), 0) AS Total\_Amount\_Received

FROM loan

GROUP BY emp\_length

ORDER BY emp\_length;



**PURPOSE**

SELECT

purpose AS PURPOSE,

COUNT(id) AS Total\_Loan\_Applications,

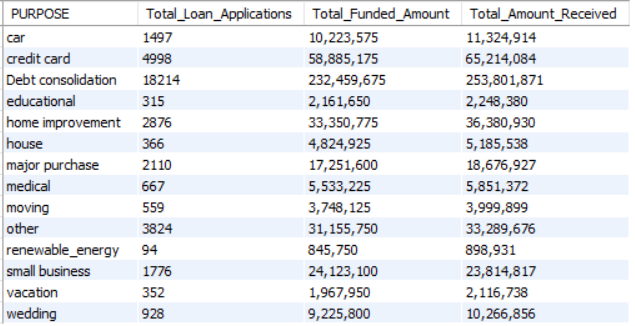
FORMAT(SUM(loan\_amount), 0) AS Total\_Funded\_Amount,

FORMAT(SUM(total\_payment), 0) AS Total\_Amount\_Received

FROM loan

GROUP BY purpose

ORDER BY purpose;



**HOME OWNERSHIP**

SELECT

home\_ownership AS Home\_Ownership,

COUNT(id) AS Total\_Loan\_Applications,

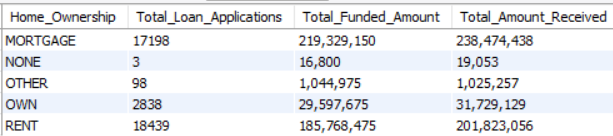
FORMAT(SUM(loan\_amount), 0) AS Total\_Funded\_Amount,

FORMAT(SUM(total\_payment), 0) AS Total\_Amount\_Received

FROM loan

GROUP BY home\_ownership

ORDER BY home\_ownership;



*Note: We have applied multiple Filters on all the dashboards. You can check the results for the filters as well by modifying the query and comparing the results.*

*For e.g*

*See the results when we hit the Grade A in the filters for dashboards.*

*SELECT*

*purpose AS PURPOSE,*

*COUNT(id) AS Total\_Loan\_Applications,*

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

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

*FROM bank\_loan\_data*

*WHERE grade = 'A'*

*GROUP BY purpose*

*ORDER BY purpose*