**BANK LOAN ANALYSIS:**

**VALIDATION FOR DASHBOARD:**

**KPI’s:**

1. Total Loan Applications

SELECT COUNT(id) as Total\_Loan\_Applications FROM bankloan\_data;

A screenshot of a computer

Description automatically generated

2.MTD Total Loan Applications

SELECT COUNT(id) as MTD\_Total\_Loan\_Applications FROM bankloan\_data

WHERE MONTH(issue\_date)=12;

A close up of a screen

Description automatically generated

3.PMTD Total Loan Applications

SELECT COUNT(id) as PMTD\_Total\_Loan\_Applications FROM bankloan\_data

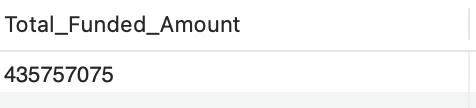
WHERE MONTH(issue\_date)=11;

A screenshot of a phone

Description automatically generated

4.Total Funded Amount

SELECT SUM(loan\_amount) AS Total\_Funded\_Amount FROM bankloan\_data;



5.MTD Total Funded Amount

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

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

A screenshot of a phone

Description automatically generated

6. PMTD Total Funded Amount

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

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

A screenshot of a phone

Description automatically generated

7.Total Amount Collected

SELECT SUM(total\_payment) AS Total\_Amount\_Collected FROM bankloan\_data;

A screenshot of a computer

Description automatically generated

8.MTD Total Amount Collected

SELECT SUM(total\_payment) AS MTD\_Total\_Amount\_Collected FROM bankloan\_data

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

A screen shot of a computer

Description automatically generated

9.PMTD Total Amount Collected

SELECT SUM(total\_payment) AS PMTD\_Total\_Amount\_Collected FROM bankloan\_data

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

A screenshot of a phone

Description automatically generated

10.Average Interest Rate

SELECT ROUND(AVG(int\_rate)\*100,2) AS Avg\_Intrest\_Rate FROM bankloan\_data;

A screenshot of a phone

Description automatically generated

11.MTD Average Interest Rate

SELECT ROUND(AVG(int\_rate)\*100,2) AS MTD\_Avg\_Intrest\_Rate FROM bankloan\_data

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

A screenshot of a social media account

Description automatically generated

12.PMTD Average Interest Rate

SELECT ROUND(AVG(int\_rate)\*100,2) AS PMTD\_Avg\_Intrest\_Rate FROM bankloan\_data

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

A screenshot of a phone

Description automatically generated

13.Average DTI

SELECT ROUND(AVG(dti)\*100,2) AS Avg\_DTI FROM bankloan\_data;

A close-up of a computer screen

Description automatically generated

14.MTD Average DTI

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

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

A screenshot of a phone

Description automatically generated

15.PMTD Average DTI

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

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

A screenshot of a computer

Description automatically generated

---GOOD LOAN VS BAD LOAN

16.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 bankloan\_data;

A screenshot of a computer

Description automatically generated

17. Good Loan Applications

SELECT COUNT(id) AS Good\_Loan\_Applications FROM bankloan\_data

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

A screenshot of a phone

Description automatically generated

18.Good Loan Funded Amount

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

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

A screenshot of a phone

Description automatically generated

19.Good Loan Received Amount

SELECT SUM(total\_payment) AS Good\_Loan\_amount\_received\_amount FROM bankloan\_data

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

A screen shot of a computer

Description automatically generated

20.Bad Loan Percentage

SELECT

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

COUNT(id) AS Bad\_Loan\_Percentage

FROM bankloan\_data;

A screen shot of a computer

Description automatically generated

21.Bad Loan Applications

SELECT COUNT(id) AS Bad\_Loan\_Applications FROM bankloan\_data

WHERE loan\_status = 'Charged Off';

A screen shot of a phone

Description automatically generated

22.Bad Loan Funded Amount

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

WHERE loan\_status = 'Charged Off';

A screenshot of a phone

Description automatically generated

23.Bad Loan Received Amount

SELECT SUM(total\_payment) AS Bad\_Loan\_amount\_received FROM bankloan\_data

WHERE loan\_status = 'Charged Off';

A screenshot of a computer

Description automatically generated

--LOAN STATUS

24.

SELECT

loan\_status,

COUNT(id) AS LoanCount,

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

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

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

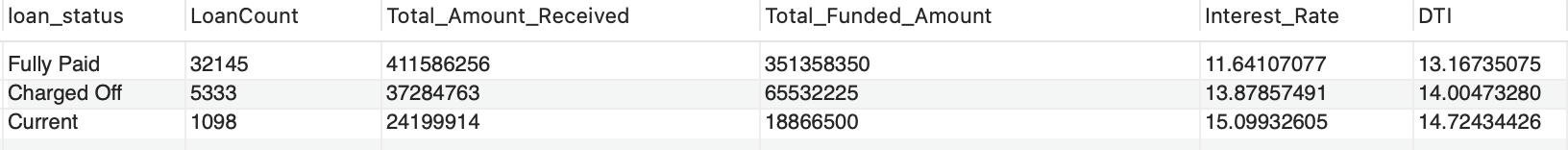
AVG(dti \* 100) AS DTI

FROM

bankloan\_data

GROUP BY

loan\_status;



25. SELECT

loan\_status,

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

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

FROM bankloan\_data

WHERE MONTH(issue\_date) = 12

GROUP BY loan\_status;

A screenshot of a phone

Description automatically generated

--OVERVIEW

26.

SELECT

MONTH(issue\_date) AS Month\_number,

MONTHNAME(issue\_date) AS Month\_name,

COUNT(id) AS Total\_Loan\_Applications,

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

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

FROM bankloan\_data

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

ORDER BY MONTH(issue\_date);

A screenshot of a computer

Description automatically generated

27.

SELECT

address\_state AS State,

COUNT(id) AS Total\_Loan\_Applications,

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

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

FROM bankloan\_data

GROUP BY address\_state

ORDER BY Total\_Funded\_Amount DESC;

A screenshot of a computer

Description automatically generated

28.

SELECT

term AS Term,

COUNT(id) AS Total\_Loan\_Applications,

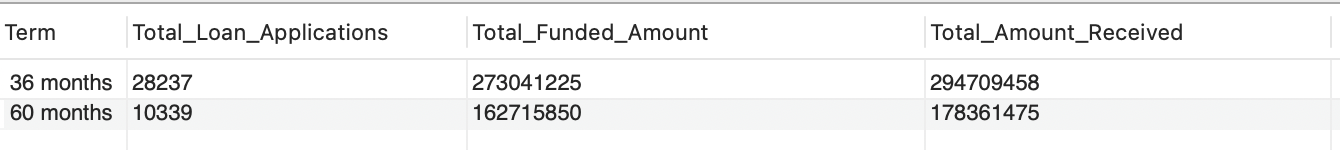
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bankloan\_data

GROUP BY term

ORDER BY term;



29.

SELECT

emp\_length AS Employee\_Length,

COUNT(id) AS Total\_Loan\_Applications,

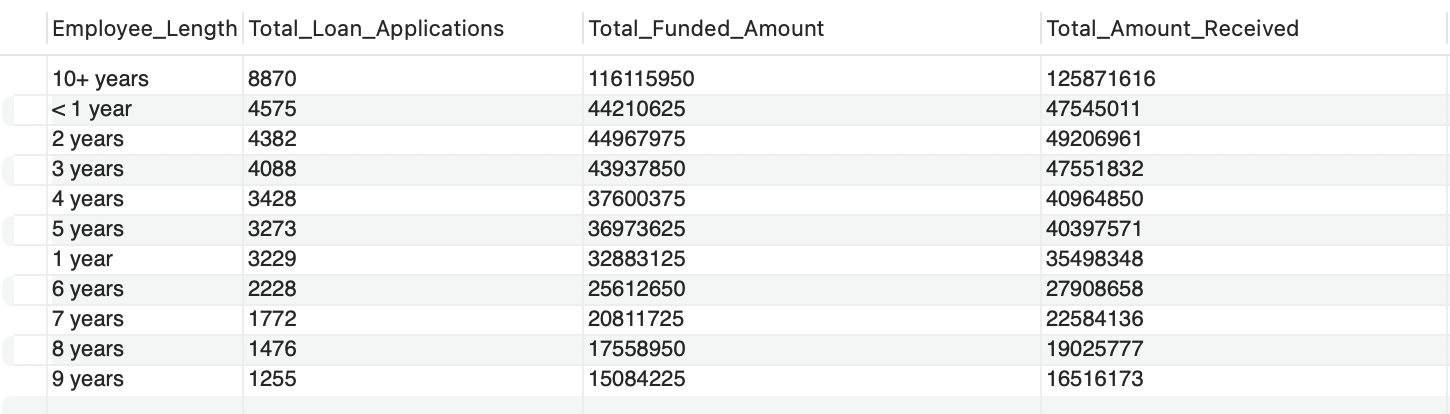
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bankloan\_data

GROUP BY emp\_length

ORDER BY Total\_Loan\_Applications DESC;



30.

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 bankloan\_data

GROUP BY purpose

ORDER BY Total\_Loan\_Applications DESC;

A screenshot of a computer

Description automatically generated

31.

SELECT

home\_ownership AS Home\_Ownership,

COUNT(id) AS Total\_Loan\_Applications,

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

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

FROM bankloan\_data

GROUP BY home\_ownership

ORDER BY Total\_Loan\_Applications DESC;

A screenshot of a cell phone

Description automatically generated

--DETAILS

32. 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 bankloan\_data

WHERE grade = 'A'

GROUP BY purpose

ORDER BY purpose;

A screenshot of a data

Description automatically generated