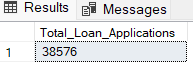
**BANK LOAN ANALYSIS REPORT**

**Q1.Total Loan Application**

SELECT COUNT(id) AS Total\_Loan\_Applications

FROM bank\_loan\_data;

**OUTPUT:**



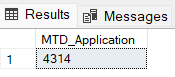
**Q2.MTD Loan Application**

SELECT COUNT(ID) AS MTD\_Application

FROM bank\_loan\_data

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

**OUTPUT:**



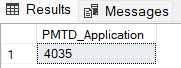
**Q3.PMTD Loan Application**

SELECT COUNT(ID) AS PMTD\_Application

FROM bank\_loan\_data

WHERE MONTH(issue\_date) = 11 ;

**OUTPUT:**

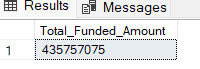


**Q4.Total Funded amount**

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

FROM bank\_loan\_data

**OUTPUT:**



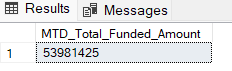
**Q5.Total Funded amount (MTD)**

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

FROM bank\_loan\_data

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

**OUTPUT:**



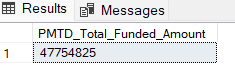
**Q6.Total Funded amount (Previous MTD)**

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

FROM bank\_loan\_data

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

**OUTPUT:**

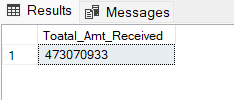


**Q7. Total Amount Received**

SELECT SUM(total\_payment) As Toatal\_Amt\_Received

FROM bank\_loan\_data;

**OUTPUT:**



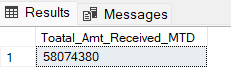
**Q8. Total Amount Received (MTD)**

SELECT SUM(total\_payment) As Toatal\_Amt\_Received\_MTD

FROM bank\_loan\_data

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

**OUTPUT:**



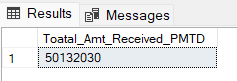
**Q9. Total Amount Received (PMTD)**

SELECT SUM(total\_payment) As Toatal\_Amt\_Received\_PMTD

FROM bank\_loan\_data

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

**OUTPUT:**

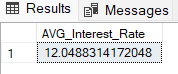


**Q10. Average Interest Rate**

SELECT AVG(int\_rate)\*100 AS AVG\_Interest\_Rate

FROM bank\_loan\_data;

**OUTPUT:**



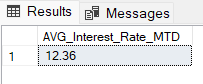
**Q11. Average Interest Rate(MTD)**

SELECT ROUND(AVG(int\_rate), 4)\*100 AS AVG\_Interest\_Rate\_MTD

FROM bank\_loan\_data

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

**OUTPUT:**

****

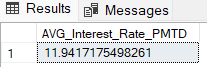
**Q12. Average Interest Rate(PMTD)**

SELECT AVG(int\_rate)\*100 AS AVG\_Interest\_Rate\_PMTD

FROM bank\_loan\_data

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

**OUTPUT:**

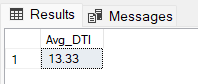


**Q13. AVG DTI**

SELECT ROUND(AVG(dti), 4)\*100 AS Avg\_DTI

FROM bank\_loan\_data;

**OUTPUT:**



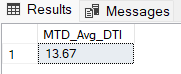
**Q14. MTD AVG DTI**

SELECT ROUND(AVG(dti), 4)\*100 AS MTD\_Avg\_DTI

FROM bank\_loan\_data

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

**OUTPUT:**



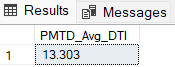
**Q15. PMTD AVG DTI**

SELECT ROUND(AVG(dti), 5)\*100 AS PMTD\_Avg\_DTI

FROM bank\_loan\_data

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

**OUTPUT:**



**## Good Loan**

**Q16. Good Loan Percentage**

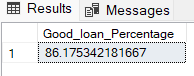
SELECT

(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 ;

**OUTPUT:**



**Q17. Good Loan Applications**

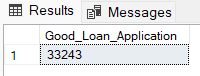
SELECT

COUNT(id) As Good\_Loan\_Application

FROM bank\_loan\_data

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

**OUTPUT:**



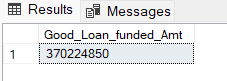
**Q18. Good Loan Funded Amount**

SELECT SUM(loan\_amount) As Good\_Loan\_funded\_Amt

FROM bank\_loan\_data

where loan\_status in ('Fully Paid', 'Current')

**OUTPUT:**



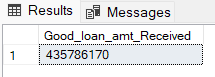
**Q19. Good Loan Amount Received**

SELECT SUM(total\_payment) As Good\_loan\_amt\_Received

FROM bank\_loan\_data

WHERE loan\_status in ('Fully Paid', 'Current');

**OUTPUT:**



**## BAD LOAN**

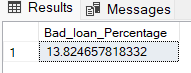
**Q20. BAD Loan Percentage**

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

COUNT(id) As Bad\_loan\_Percentage

FROM bank\_loan\_data;

**OUTPUT:**

****

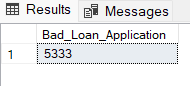
**Q21. Bad Loan Applications**

SELECT COUNT(id) As Bad\_Loan\_Application

FROM bank\_loan\_data

WHERE loan\_status = 'Charged Off';

**OUTPUT:**

****

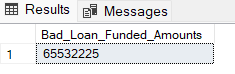
**Q22. Bad Loan Funded Amount**

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

FROM bank\_loan\_data

WHERE loan\_status = 'Charged Off';

**OUTPUT:**

****

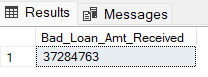
**Q23. Bad Loan Amount Received**

SELECT SUM(total\_payment) As Bad\_Loan\_Amt\_Received

FROM bank\_loan\_data

WHERE loan\_status = 'Charged Off';

**OUTPUT:**

****

**## LOAN Status**

--Loan Status Details

SELECT

loan\_status,

COUNT(id) AS Total\_Loan\_Application,

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

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

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

ROUND(AVG(dti \* 100),3) AS DTI

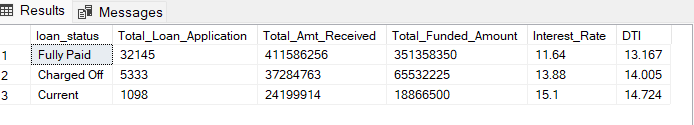
FROM

bank\_loan\_data

GROUP BY

loan\_status

**OUTPUT:**

****

--Loan Status Details By MTD

SELECT

loan\_status,

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

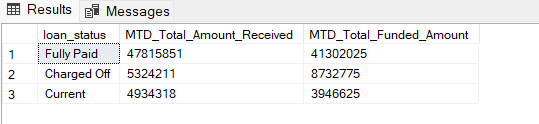
SUM(loan\_amount) AS MTD\_Total\_Funded\_Amount

FROM bank\_loan\_data

WHERE MONTH(issue\_date) = 12

GROUP BY loan\_status

**OUTPUT:**

****

----Loan Status Details By PMTD

SELECT

loan\_status,

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

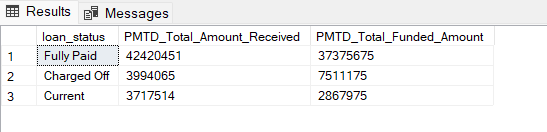
SUM(loan\_amount) AS PMTD\_Total\_Funded\_Amount

FROM bank\_loan\_data

WHERE MONTH(issue\_date) = 11

GROUP BY loan\_status

**OUTPUT:**

****

--Monthly Trends

SELECT

MONTH(issue\_date) AS Month\_Munber,

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

COUNT(id) AS Total\_Loan\_Applications,

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

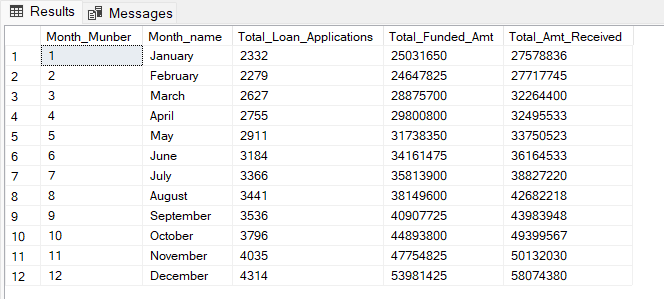
SUM(total\_payment) AS Total\_Amt\_Received

FROM bank\_loan\_data

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

ORDER BY MONTH(issue\_date);

**OUTPUT:**

****

--STATE

SELECT

address\_state As State,

COUNT(id) AS Total\_Loan\_Applications,

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

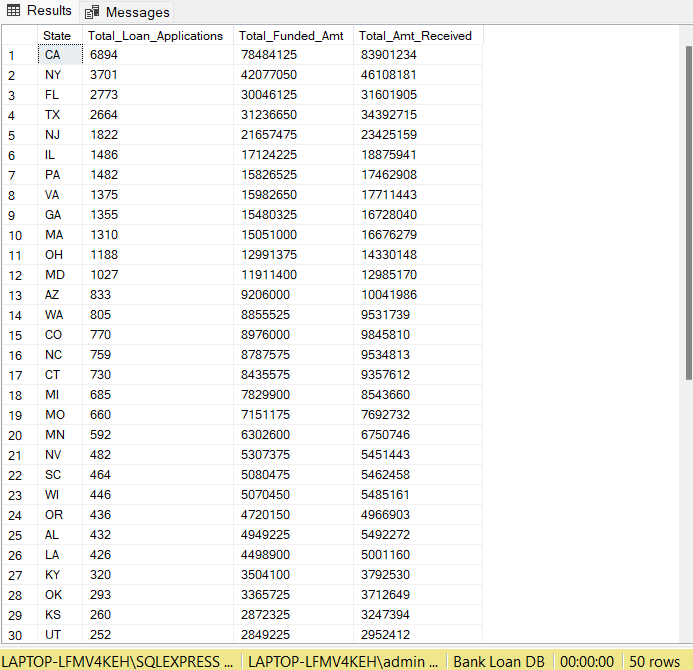
SUM(total\_payment) AS Total\_Amt\_Received

FROM bank\_loan\_data

GROUP BY address\_state

ORDER By COUNT(id) DESC;

**OUTPUT:**



--TERM

SELECT

term,

COUNT(id) AS Total\_Loan\_Applications,

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

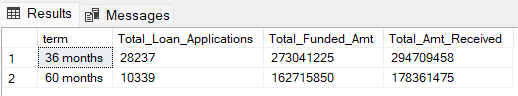
SUM(total\_payment) AS Total\_Amt\_Received

FROM bank\_loan\_data

GROUP BY term

ORDER By term ;

**OUTPUT:**



--EMPLOYEE LENGTH

SELECT

emp\_length,

COUNT(id) AS Total\_Loan\_Applications,

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

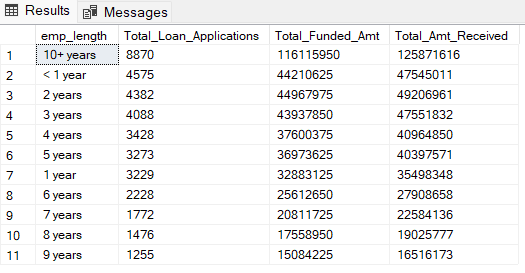
SUM(total\_payment) AS Total\_Amt\_Received

FROM bank\_loan\_data

GROUP BY emp\_length

ORDER By COUNT(id) DESC;

**OUTPUT:**



--PURPOSE

SELECT

purpose,

COUNT(id) AS Total\_Loan\_Applications,

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

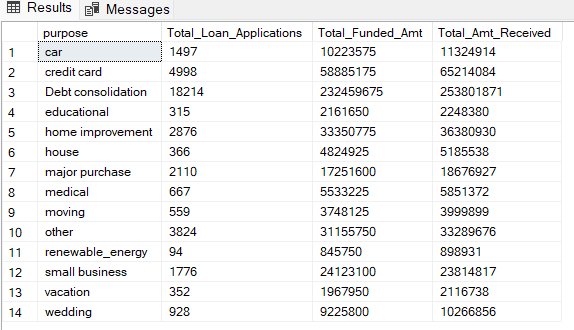
SUM(total\_payment) AS Total\_Amt\_Received

FROM bank\_loan\_data

GROUP BY purpose

ORDER By purpose;

**OUTPUT:**



--Home Ownership

SELECT

home\_ownership,

COUNT(id) AS Total\_Loan\_Applications,

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

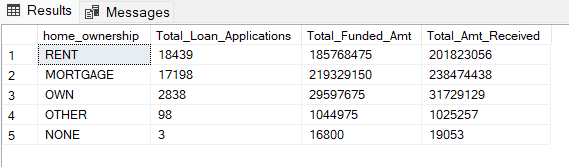
SUM(total\_payment) AS Total\_Amt\_Received

FROM bank\_loan\_data

GROUP BY home\_ownership

ORDER By COUNT(id) DESC;

**OUTPUT:**



--Applying Filters on different Column

SELECT

home\_ownership,

COUNT(id) AS Total\_Loan\_Applications,

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

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

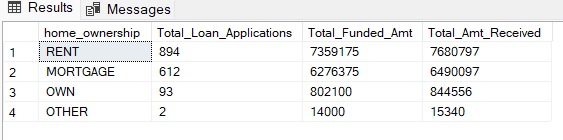
FROM bank\_loan\_data

WHERE grade ='A' AND address\_state = 'CA'

GROUP BY home\_ownership

ORDER By COUNT(id) DESC;

**OUTPUT:**

****