**Bank\_loan report**

create database bank

use bank

select\* from bank\_loan

Key Performance Indicators (KPIs) Requirements:

Total Loan Applications:

select count(id)total\_loan\_count from bank\_loan



The Month-to-Date (MTD) Loan Applications

select count(id)MTD\_total\_loan\_count from bank\_loan

where month(issue\_date)=12 and year(issue\_date)=2021



PMTD Loan Applications

select count(id)PMTD\_total\_loan\_count from bank\_loan

where month(issue\_date)=11 and year(issue\_date)=2021



Total Funded Amount:

SELECT SUM(loan\_amount) Total\_Funded\_Amnt FROM bank\_loan



MTD Total Funded Amount

SELECT SUM(loan\_amount) AS Total\_Funded\_Amount FROM bank\_loan

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



PMTD Total Funded Amount

SELECT SUM(loan\_amount) AS Total\_Funded\_Amount FROM bank\_loan

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



Total Amount Received

SELECT SUM(total\_payment)Total\_Amount\_Collection FROM bank\_loan



Average Interest Rate

SELECT AVG(int\_rate)\*100 as Avg\_Int\_Rate FROM bank\_loan



Average Debt-to-Income Ratio (DTI):

SELECT AVG(dti)\*100 as DTI\_avg FROM bank\_loan



**Good Loan KPIs:**

Good Loan Application Percentage:

SELECT

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

COUNT(id) AS Good\_Loan\_app\_Percentage

FROM bank\_loan



-Good Loan Applications:

SELECT COUNT(id) AS Good\_Loan\_Applications FROM bank\_loan

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

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



Good Loan Total Received Amount:

SELECT SUM(total\_payment) AS Good\_Loan\_amount\_received FROM bank\_loan

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



Bad Loan Percentage

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

COUNT(id) Bad\_Loan\_Percent

FROM bank\_loan



Bad Loan Applications

SELECT COUNT(id) BadLoan\_Applications FROM bank\_loan

WHERE loan\_status = 'Charged Off'



-- Bad Loan Funded Amount

SELECT SUM(loan\_amount) Bad\_Loan\_Fund\_amnt FROM bank\_loan

WHERE loan\_status = 'Charged Off'



-- Bad Loan Amount Received

SELECT SUM(total\_payment)BadLoan\_amnt\_received FROM bank\_loan

WHERE loan\_status = 'Charged Off'



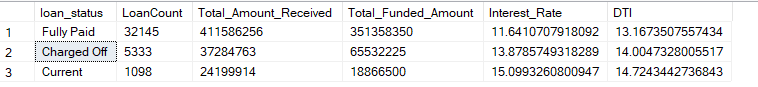
-- LOAN STATUS

SELECT loan\_status, COUNT(id)LoanCount, SUM(total\_payment)Total\_Amount\_Received,

SUM(loan\_amount)Total\_Funded\_Amount, AVG( int\_rate \* 100)Interest\_Rate,

AVG(dti \* 100) DTI

FROM bank\_loan

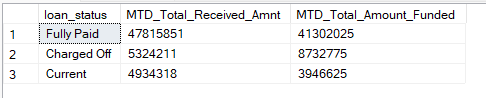
 GROUP BY loan\_status

-- 'Month-to-Date (MTD) Funded Amount,' 'MTD Amount Received,'

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

FROM bank\_loan

WHERE MONTH(issue\_date) = 12

GROUP BY loan\_status

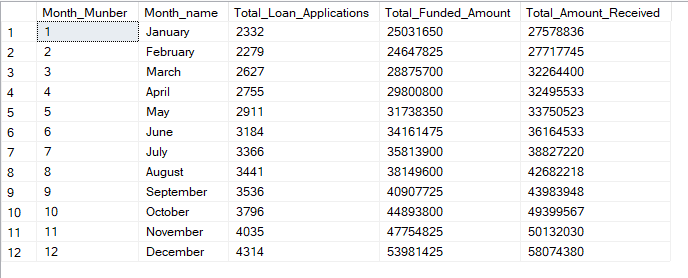
-- BANK LOAN REPORT | MONTH

SELECT MONTH(issue\_date)Month\_Munber, DATENAME(MONTH, issue\_date)Month\_name, COUNT(id)Total\_Loan\_Applications, SUM(loan\_amount) AS Total\_Funded\_Amount, SUM(total\_payment) AS Total\_Amount\_Received

FROM bank\_loan

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

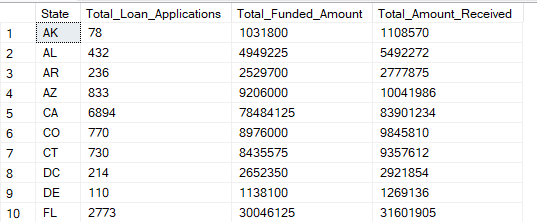
ORDER BY MONTH(issue\_date)



--STATE

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

FROM bank\_loan

GROUP BY address\_state

ORDER BY address\_state

-- TERM

SELECT term AS Term, COUNT(id)Total\_Loan\_Applications, SUM(loan\_amount)Total\_Funded\_Amount,

SUM(total\_payment)Total\_Amount\_Received

FROM bank\_loan

GROUP BY term

ORDER BY term

-- EMPLOYEE LENGTH

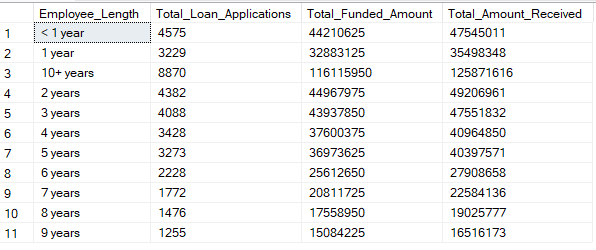
SELECT emp\_length as Employee\_Length, COUNT(id)Total\_Loan\_Applications, SUM(loan\_amount)Total\_Funded\_Amount,

SUM(total\_payment)Total\_Amount\_Received

FROM bank\_loan

GROUP BY emp\_length

ORDER BY emp\_length



-- PURPOSE

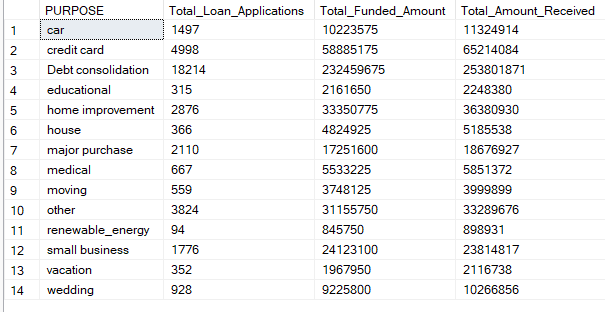
SELECT purpose AS PURPOSE, COUNT(id)Total\_Loan\_Applications, SUM(loan\_amount)Total\_Funded\_Amount,

SUM(total\_payment)Total\_Amount\_Received

FROM bank\_loan

GROUP BY purpose

ORDER BY purpose



-- HOME OWNERSHIP

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 bank\_loan

GROUP BY home\_ownership

ORDER BY home\_ownership

