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**Problem Statement**

1. **Total loan amount**

SELECT COUNT(id) AS Total\_Loan\_Application FROM bank\_loan\_data



1. **Month to Date Loan Application**

SELECT COUNT(id) AS MTD\_Total\_Loan\_Application FROM bank\_loan\_data

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



1. **Total Funded Amount**

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



1. **Month to date 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



1. **Previous month to date 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



1. **Total amount received**

SELECT SUM(total\_payment) AS Total\_amount\_received FROM bank\_loan\_data



**Total Month to date amount received**

SELECT SUM(total\_payment) AS MTD\_Total\_amount\_received FROM bank\_loan\_data

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

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**Total Previous Month To Date amount received**

SELECT SUM(total\_payment) AS PMTD\_Total\_amount\_received FROM bank\_loan\_data

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



**Average Interest rate**

SELECT AVG(int\_rate) \* 100 AS Avg\_Interest\_Rate FROM bank\_loan\_data



**Month to date average interest rate**

SELECT ROUND(AVG(int\_rate),4) \* 100 AS MTD\_Avg\_Interest\_Rate FROM bank\_loan\_data

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



**Last month to date average interest rate**

SELECT ROUND(AVG(int\_rate),4) \* 100 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),4) \* 100 AS Avg\_DTI FROM bank\_loan\_data

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**Month to date average debt to income ratio**

SELECT ROUND(AVG(dti),4) \* 100 AS MTD\_Avg\_DTI FROM bank\_loan\_data

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



**Total Good loan application**

SELECT

(COUNT(CASE WHEN loan\_status = 'Fully Paid' or loan\_status ='Current' THEN id END) \* 100)

/

COUNT(id) As Good\_loan\_percentage

FROM bank\_loan\_data



**Good loan Application**

SELECT COUNT(id) AS Good\_loan\_application 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 parcentage**

SELECT

(COUNT(CASE WHEN loan\_status = 'Charged off' THEN id END) \* 100)

/

COUNT(id) As bad\_loan\_percentage

FROM bank\_loan\_data



**total bad loan application**

SELECT COUNT(id) AS Bad\_Loan\_Application FROM bank\_loan\_data

WHERE loan\_status ='Charged off'



**Total BAd loan amount**

SELECT SUM(loan\_amount) AS Bad\_Loan\_Amount FROM bank\_loan\_data

WHERE loan\_status ='Charged off’



**Total bad loan amount received**

SELECT SUM(total\_payment) AS Bad\_Loan\_received FROM bank\_loan\_data

WHERE loan\_status ='Charged off'



Loan Status

SELECT

loan\_status,

COUNT(id) AS Total\_Loan\_Application,,

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

bank\_loan\_data

GROUP BY

loan\_status

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Month to date Loan Status

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

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**Monthly trend by issue date**

SELECT

MONTH(issue\_date) AS Month\_number,

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

COUNT(id) AS Total\_Application,

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

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

FROM bank\_loan\_data

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

ORDER BY MONTH(issue\_date)

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**Regional analysis by state**

SELECT

address\_state AS State,

COUNT(id) AS Total\_Application,

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

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

FROM bank\_loan\_data

GROUP BY address\_state

ORDER BY COUNT(id) DESC

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**Loan Term Analysis**

SELECT

term,

COUNT(id) AS Total\_Application,

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

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

FROM bank\_loan\_data

GROUP BY term

ORDER BY term

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**Employee Length**

SELECT

emp\_length,

COUNT(id) AS Total\_Application,

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

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

FROM bank\_loan\_data

GROUP BY emp\_length

ORDER BY emp\_length

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**Loan Purpose Breakdown**

SELECT

purpose,

COUNT(id) AS Total\_Application,

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

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

FROM bank\_loan\_data

GROUP BY purpose

ORDER BY COUNT(id) DESC

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**Home ownership Breakdown**

SELECT

home\_ownership,

COUNT(id) AS Total\_Application,

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

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

FROM bank\_loan\_data

GROUP BY home\_ownership

ORDER BY COUNT(id) DESC

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#07575B

#61A4AD

#C0DEE5

#ee6c4d

#F2B418

#FEEDE7

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