**BANK LOAN REPORT QUERY DOCUMENT**

1. **BANK LOAN REPORT | SUMMARY**

**KPI’s:**

**Total Loan Applications**

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



**MTD Loan Applications**

SELECT count(id) FROM MTD\_bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

OR

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

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



**PMTD Loan Applications**

SELECT count(id) AS PMTD\_Total\_Applications FROM bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)-1) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

OR

SELECT COUNT(id) AS PMTD\_Total\_Applications FROM bank\_loan\_data

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



**Total Funded Amount**

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



**MTD Total Funded Amount**

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

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

**OR**

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

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



**PMTD Total Funded Amount**

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

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)-1) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

**OR**

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

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



**Total Amount Received**

SELECT SUM(total\_payment) AS Total\_Amount\_Collected FROM bank\_loan\_data



**MTD Total Amount Received**

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

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

**OR**

SELECT SUM(total\_payment) AS Total\_Amount\_Collected FROM bank\_loan\_data

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



**PMTD Total Amount Received**

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

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)-1) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

**OR**

SELECT SUM(total\_payment) AS Total\_Amount\_Collected FROM bank\_loan\_data

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



**Average Interest Rate**

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



**MTD Average Interest**

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

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

**OR**

SELECT AVG(int\_rate)\*100 AS MTD\_Avg\_Int\_Rate FROM bank\_loan\_data

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



**PMTD Average Interest**

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

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)-1) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

**OR**

SELECT AVG(int\_rate)\*100 AS PMTD\_Avg\_Int\_Rate FROM bank\_loan\_data

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



**Average DTI**

SELECT ROUND(AVG(dti),4) \*100 AS Avg\_dti FROM bank\_loan\_data



**MTD Avg DTI**

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

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

**OR**

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

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



**PMTD Avg DTI**

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

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)-1) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

**OR**

SELECT AVG(dti)\*100 AS PMTD\_Avg\_DTI FROM bank\_loan\_data

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



**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 bank\_loan\_data

****

**Good Loan Applications**

SELECT COUNT(id) AS Good\_Loan\_Applications 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 Amount Received**

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

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 bank\_loan\_data

****

**Bad Loan Applications**

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

WHERE loan\_status = 'Charged Off'

****

**Bad Loan Funded Amount**

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

WHERE loan\_status = 'Charged Off'

****

**Bad Loan Amount Received**

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

WHERE loan\_status = 'Charged Off'

****

**LOAN STATUS**

SELECT

loan\_status,

COUNT(id) AS Total\_applications,

SUM(total\_payment) as Total\_amount\_received,

SUM(loan\_amount) as Total\_amount\_funded,

avg(int\_rate)\*100.0 as IntRate,

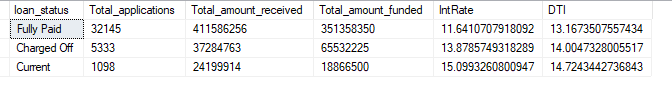
avg(dti)\*100.0 as DTI

from

bank\_loan\_data

group by

loan\_status



**MTD LOAN STATUS**

SELECT

loan\_status,

COUNT(id) AS MTD\_Total\_applications,

SUM(total\_payment) as MTD\_Total\_amount\_received,

SUM(loan\_amount) as MTD\_Total\_amount\_funded,

avg(int\_rate)\*100.0 as MTD\_IntRate,

avg(dti)\*100.0 as MTD\_DTI

from

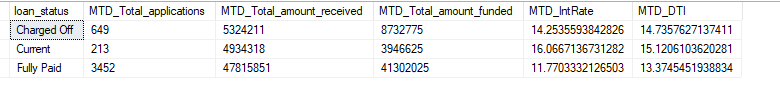
bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MAX(MONTH(issue\_date)) FROM bank\_loan\_data)

AND YEAR(issue\_date) = (SELECT MAX(YEAR(issue\_date)) FROM bank\_loan\_data)

group by

loan\_status;

****

1. **BANK LOAN REPORT | OVERVIEW**

**MONTHLY TREND:**

SELECT

MONTH(issue\_date) as Month\_Number,

DATENAME(MONTH, issue\_date) as Month\_Name,

COUNT(id) as Total\_applications,

SUM(total\_payment) as Total\_amount\_received,

SUM(loan\_amount as Total\_amount\_funded,

from

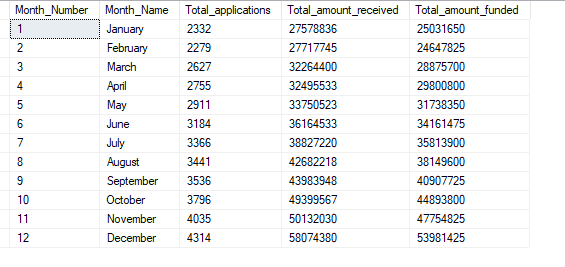
bank\_loan\_data

group by

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

order by

MONTH(issue\_date)

****

**REGIONAL ANALYSIS BY STATE**

SELECT

address\_state as State,

COUNT(id) as Total\_applications,

SUM(total\_payment) as Total\_amount\_received,

SUM(loan\_amount) as Total\_amount\_funded

from

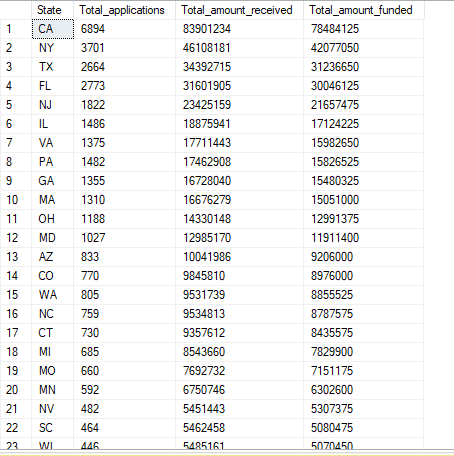
bank\_loan\_data

group by

address\_state

order by

SUM(loan\_amount) desc

****

**TERM ANALYSIS**

SELECT

term as Loan\_Term,

COUNT(id) as Total\_applications,

SUM(total\_payment) as Total\_amount\_received,

SUM(loan\_amount) as Total\_amount\_funded

from

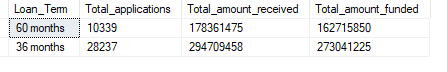
bank\_loan\_data

group by

term

order by

term DESC



**EMPLOYEE LENGTH**

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 bank\_loan\_data

GROUP BY emp\_length

ORDER BY emp\_length

****

**PURPOSE**

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

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\_data

GROUP BY home\_ownership

ORDER BY home\_ownership

****