BANK LOAN SQL+ POWER BI

**Total Loan Applications**

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



**MTD Loan Applications**

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

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



**PMTD Loan Applications : (MTD-PMTD)/PMTD**

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) = 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) = 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\_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\_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\_Interest\_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\_Interest\_Rate FROM bank\_loan\_data

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



**Avg 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) =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) =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)

/

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\_Recieved\_amount 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 LoanCount,

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

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

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

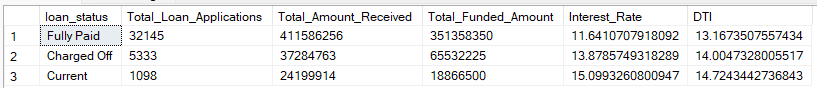
        AVG(dti \* 100) AS DTI

    FROM

        bank\_loan\_data

    GROUP BY

        loan\_status



SELECT

loan\_status,

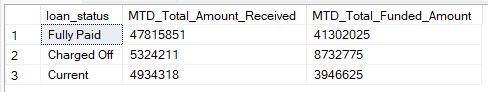
SUM(total\_payment) AS MTD\_Total\_Amount\_Received,

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

FROM bank\_loan\_data

WHERE MONTH(issue\_date) = 12

GROUP BY loan\_status



1. **BANK LOAN REPORT | OVERVIEW**

**MONTH**

SELECT

MONTH(issue\_date) AS Month\_Number,

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

COUNT(id) AS Total\_Loan\_Applications,

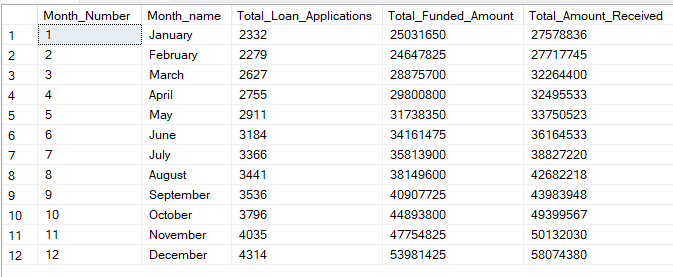
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

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

ORDER BY MONTH(issue\_date)



**STATE**

SELECT

address\_state AS State,

COUNT(id) AS Total\_Loan\_Applications,

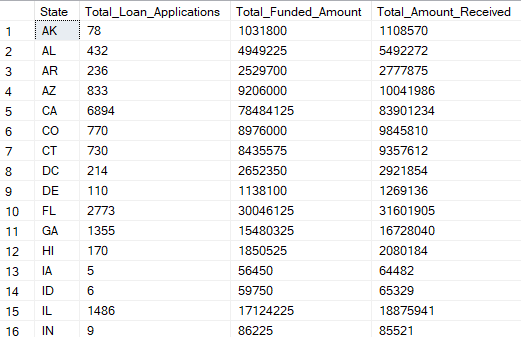
SUM(loan\_amount) AS Total\_Funded\_Amount,

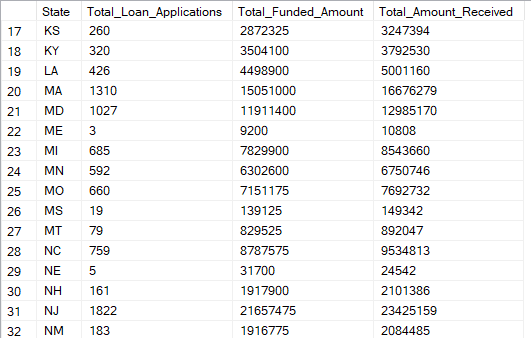
SUM(total\_payment) AS Total\_Amount\_Received

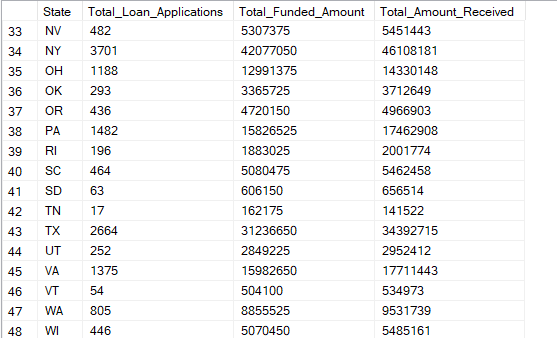
FROM bank\_loan\_data

GROUP BY address\_state

ORDER BY address\_state









SELECT

address\_state AS Max\_State,

COUNT(id) AS Total\_Loan\_Applications,

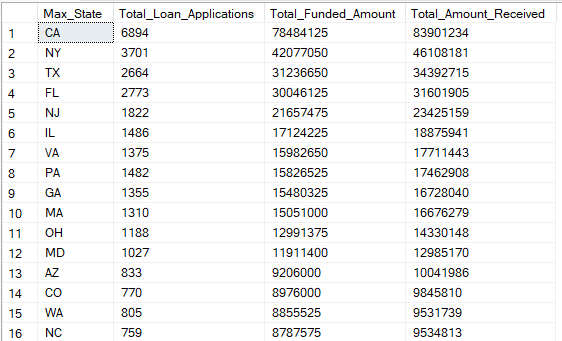
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY address\_state

ORDER BY SUM(loan\_amount) DESC



SELECT

address\_state AS Max\_Loan\_App,

COUNT(id) AS Total\_Loan\_Applications,

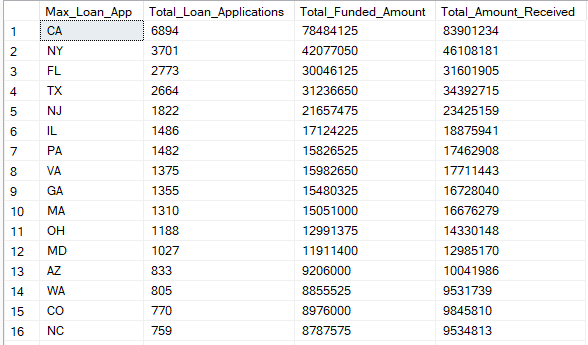
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY address\_state

ORDER BY COUNT(id) DESC



**TERM**

SELECT

term AS Term,

COUNT(id) AS Total\_Loan\_Applications,

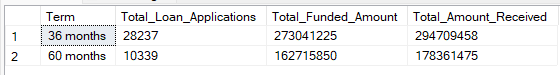
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY term

ORDER BY term



**EMPLOYEE LENGTH**

SELECT

emp\_length AS Employee\_Length,

COUNT(id) AS Total\_Loan\_Applications,

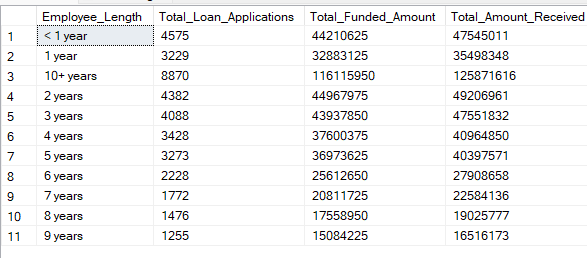
SUM(loan\_amount) AS Total\_Funded\_Amount,

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,

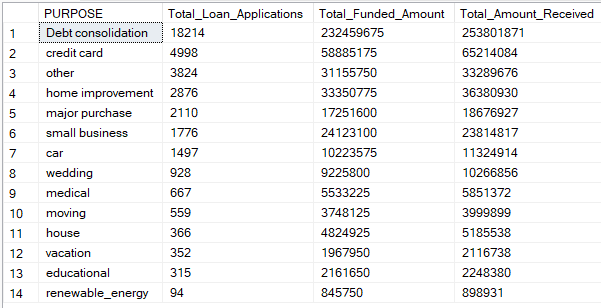
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY purpose

ORDER BY COUNT(id) DESC



**HOME OWNERSHIP**

SELECT

home\_ownership AS Home\_Ownership,

COUNT(id) AS Total\_Loan\_Applications,

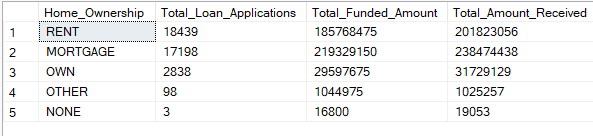
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY home\_ownership

ORDER BY COUNT(id) DESC



*Note: We have applied multiple Filters on all the dashboards. You can check the results for the filters as well by modifying the query and comparing the results.*

*For e.g*

*See the results when we hit the Grade A in the filters for dashboards.*

SELECT

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

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

GROUP BY home\_ownership

ORDER BY COUNT(id) DESC

