**BANK LOAN REPORT QUERY DOCUMENT**

1. **BANK LOAN REPORT | SUMMARY**

**KPI:**

--TotalLoanApplications

SELECT \* FROM BankLoanData

SELECT COUNT(ID) AS TotalLoanApplications FROM BankLoanData

--MTD\_Total\_Loan\_Applications

SELECT COUNT(ID) AS MTD\_Total\_Loan\_Applications FROM BankLoanData

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

--(MTD-PMTD)/PMTD = MONTH OVER MONTH

--PMTD\_Total\_Loan\_Applications

SELECT COUNT(ID) AS PMTD\_Total\_Loan\_Applications FROM BankLoanData

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

--TOTAL\_FUNDED\_AMOUNT

SELECT SUM(loan\_amount) AS TOTAL\_FUNDED\_AMOUNT FROM BankLoanData

--MTD\_Total\_Funded\_Amount

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

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

--PMTD\_Total\_Funded\_Amount

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

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

--Total\_Amount\_Received

SELECT SUM(total\_payment) AS Total\_Amount\_Received FROM BankLoanData

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

--MTD\_Total\_Amount\_Received

SELECT SUM(total\_payment) AS MTD\_Total\_Amount\_Received FROM BankLoanData

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

--PMTD\_Total\_Amount\_Received

SELECT SUM(total\_payment) AS PMTD\_Total\_Amount\_Received FROM BankLoanData

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

--Average\_Interest\_Rate

SELECT ROUND(AVG(int\_rate),4)\*100 AS Average\_Interest\_Rate FROM BankLoanData

--MTD\_Average\_Interest\_Rate

SELECT ROUND(AVG(int\_rate),4)\*100 AS MTD\_Average\_Interest\_Rate FROM BankLoanData

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

--PMTD\_Average\_Interest\_Rate

SELECT ROUND(AVG(int\_rate),4)\*100 AS PMTD\_Average\_Interest\_Rate FROM BankLoanData

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

--Average\_DTI

SELECT ROUND(AVG(dti),4)\*100 AS Average\_DTI FROM BankLoanData

--MTD\_Average\_DTI

SELECT ROUND(AVG(dti),4)\*100 AS Average\_DTI FROM BankLoanData

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

--PMTD\_Average\_DTI

SELECT ROUND(AVG(dti),5)\*100 AS Average\_DTI FROM BankLoanData

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

--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\_Percentage

From BankLoanData

--Good\_Loan\_Applications

select count(id) as Good\_Loan\_Applications from BankLoanData

where loan\_status = 'Fully Paid' or loan\_status = 'Current'

--Good\_Loan\_Funded\_Amount

select SUM(loan\_amount) as Good\_Loan\_Funded\_Amount from BankLoanData

where loan\_status = 'Fully Paid' or loan\_status = 'Current'

--Good\_Loan\_Received\_Amount

select SUM(total\_payment) as Good\_Loan\_Received\_Amount from BankLoanData

where loan\_status = 'Fully Paid' or loan\_status = 'Current'

--BAD\_Loan\_Application\_Percentage

SELECT (COUNT(CASE

when loan\_status = 'Charged Off' then id

end)\*100.0)/count(id) as BAD\_Loan\_Application\_Percentage

From BankLoanData

--Bad\_Loan\_Applications

select count(id) as Bad\_Loan\_Applications from BankLoanData

where loan\_status = 'Charged Off'

--Bad\_Loan\_Funded\_Amount

select SUM(loan\_amount) as Bad\_Loan\_Funded\_Amount from BankLoanData

where loan\_status = 'Charged Off'

--Bad\_Loan\_Received\_Amount

select SUM(total\_payment) as Bad\_Loan\_Received\_Amount from BankLoanData

where loan\_status = 'Charged Off'

--LOAN\_STATUS

SELECT Loan\_status,

count(id) as Total\_Applications,

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

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

ROUND(AVG(int\_rate),6)\*100 as Average\_Interest\_Rate,

ROUND(AVG(dti),6)\*100 as Average\_DTI

FROM BankLoanData

GROUP BY Loan\_status

--MTD\_AMOUNT

SELECT

Loan\_status,

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

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

FROM BankLoanData

WHERE MONTH(issue\_date) = 12

GROUP BY loan\_status

--Monthly Trends by Issue Date (Line Chart)

SELECT

MONTH(issue\_date)as Number\_of\_Months,

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

COUNT(id) AS Total\_Applications,

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

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

FROM BankLoanData

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

order by Number\_of\_Months

--Regional Analysis by State (Filled Map):

SELECT

address\_state as state,

COUNT(id) AS Total\_Applications,

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

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

FROM BankLoanData

GROUP BY address\_state

order by state

--Loan Term Analysis (Donut Chart)

SELECT

term as Loan\_Term,

COUNT(id) AS Total\_Applications,

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

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

FROM BankLoanData

GROUP BY term

--Employee Length Analysis (Bar Chart):

SELECT

emp\_length as Employee\_Length,

COUNT(id) AS Total\_Applications,

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

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

FROM BankLoanData

GROUP BY emp\_length

order by Employee\_Length

--Loan Purpose Breakdown (Bar Chart):

SELECT

purpose as Purpose,

COUNT(id) AS Total\_Applications,

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

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

FROM BankLoanData

GROUP BY purpose

order by Total\_Applications desc

--Home Ownership Analysis (Tree Map):

SELECT

home\_ownership as OwnerShip,

COUNT(id) AS Total\_Applications,

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

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

FROM BankLoanData

GROUP BY home\_ownership

order by Total\_Applications desc