BANK LOAN REPORT QUERY DOCUMENT

1. BANK REPORT|SUMMARY

KPI’S:

Total loan applications

select count(id) AS Total\_loan\_applications from bank\_loan\_data



Month to date total loan applications

select count(id) AS MTD\_Total\_loan\_applications from bank\_loan\_data

where month(issue\_date)=12



Previous month to date total loan applications

select count(id) AS PMTD\_Total\_loan\_applications from bank\_loan\_data

where month(issue\_date)=11



2.

Total funded amount

select sum(loan\_amount) AS Total\_funded\_amount from bank\_loan\_data



Month to date total funded amount

select sum(loan\_amount) AS MTD\_Total\_funded\_amount from bank\_loan\_data

where month(issue\_date)=12



Previous month to date total funded amount

select sum(loan\_amount) AS PMTD\_Total\_funded\_amount from bank\_loan\_data

where month(issue\_date)=11



3.Total amount received

select sum(total\_payment) AS Total\_amount\_received from bank\_loan\_data



Month to date total amount received

select sum(total\_payment) AS MTD\_Total\_amount\_received from bank\_loan\_data

where month(issue\_date)=12



Previous month to date total amount received

select sum(total\_payment) AS PMTD\_Total\_amount\_received from bank\_loan\_data

where month(issue\_date)=11



4. Average interest rate

select Round(avg(int\_rate), 4)\*100 AS Average\_interest\_rate from bank\_loan\_data



Month to date average interest rate

select Round(avg(int\_rate), 4)\*100 AS MTD\_Average\_interest\_rate from bank\_loan\_data

where month(issue\_date)=12



Previous month to date average interest rate

select Round(avg(int\_rate), 4)\*100 AS PMTD\_Average\_interest\_rate from bank\_loan\_data

where month(issue\_date)=11



5. Average debt to income ratio

select Round(avg(dti), 4)\*100 AS Average\_DTI from bank\_loan\_data



Month to date average DTI

select Round(avg(dti), 4)\*100 AS MTD\_Average\_DTI from bank\_loan\_data

where month(issue\_date)=12



Previous month to date DTI

select Round(avg(dti), 4)\*100 AS PMTD\_Average\_DTI from bank\_loan\_data

where month(issue\_date)=11



Secondary KPI

Good loan application 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 total 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

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 total received amount

select sum(total\_payment) AS Bad\_loan\_received\_amount from bank\_loan\_data

where loan\_status='Charged off'



Loan status grid view: - with respect to the loan status instead of looking good loan and bad loan for all the loan status how the bank is performing

select

loan\_status,

count(id) AS Total\_loan\_applications,

sum(total\_payment) AS Total\_amount\_received,

sum(loan\_amount) AS Total\_funded\_amount,

Avg(int\_rate\*100) AS Interest\_rate,

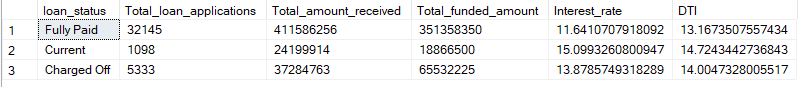
Avg(dti\*100) AS DTI

FROM

bank\_loan\_data

group by

loan\_status



with respect to the loan status instead of looking good loan and bad loan for all the loan status how the bank is performing in month to date

select

loan\_status,

sum(loan\_amount) AS MTD\_Total\_funded\_amount,

sum(total\_payment) AS MTD\_Total\_amount\_received

from bank\_loan\_data

where month(issue\_date)=12

group by loan\_status



DASHBOARD 2:Overveiw

CHARTS

1. Monthly trends by issue date

select month(issue\_date) AS Month\_number,

datename(month, issue\_date)AS Month\_name,

count(id) AS Total\_loan\_applications,

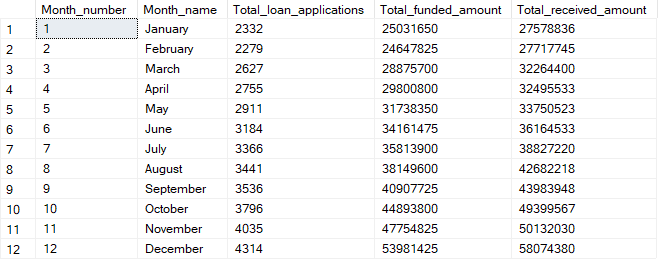
sum(loan\_amount) AS Total\_funded\_amount,

sum(total\_payment) AS Total\_received\_amount

from bank\_loan\_data

group by month(issue\_date), datename(month,issue\_date)

order by month(issue\_date)



1. Regional analysis by state

select address\_state,

count(id) AS Total\_loan\_applications,

sum(loan\_amount) AS Total\_funded\_amount,

sum(total\_payment) AS Total\_received\_amount

from bank\_loan\_data

group by address\_state

order by sum(loan\_amount) desc

1. Long term analysis

select term,

count(id) AS Total\_loan\_applications,

sum(loan\_amount) AS Total\_funded\_amount,

sum(total\_payment) AS Total\_received\_amount

from bank\_loan\_data

group by term

order by term



1. Employee length analysis

select emp\_length,

count(id) AS Total\_loan\_applications,

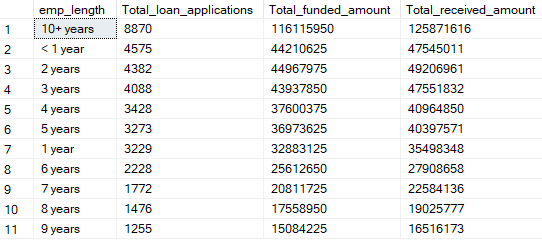
sum(loan\_amount) AS Total\_funded\_amount,

sum(total\_payment) AS Total\_received\_amount

from bank\_loan\_data

group by emp\_length

order by count(id) desc



5.Loan purpose breakdown

select purpose,

count(id) AS Total\_loan\_applications,

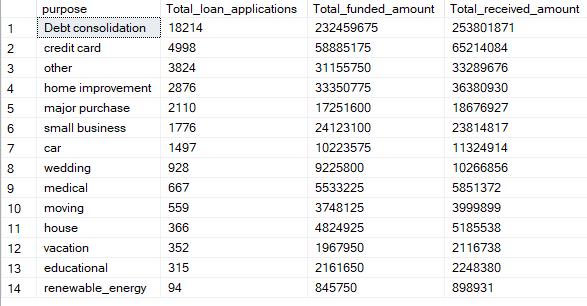
sum(loan\_amount) AS Total\_funded\_amount,

sum(total\_payment) AS Total\_received\_amount

from bank\_loan\_data

group by purpose

order by count(id) desc



1. Home ownership analysis

select home\_ownership,

count(id) AS Total\_loan\_applications,

sum(loan\_amount) AS Total\_funded\_amount,

sum(total\_payment) AS Total\_received\_amount

from bank\_loan\_data

group by home\_ownership

order by count(id) desc

