**BANK LOAN REPORT QUERY DOCUMENT**

1. **BANK LOAN REPORT | SUMMARY**

create database bank;

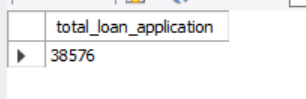
use bank;

rename table financial\_loan to loan;

**KPI’s:**

Total Loan Application

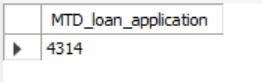
select count(ID) as total\_loan\_application from loan;



MTD Loan Application (Month to date application)

select count(issue\_date) as MTD\_loan\_application from loan

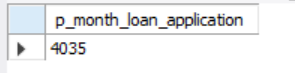
where issue\_date like ("%-12-2021");



PMTD Loan Application (Previouse month application)

select count(issue\_date) as p\_month\_loan\_application from loan

where issue\_date like ("%-11-2021");

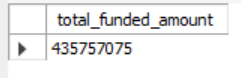


**(mtd - pmtd / pmtd) =mom**

Funded amount

Total Funded Amount

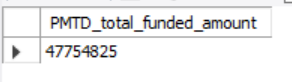
select SUM(loan\_amount) AS total\_funded\_amount from loan;



PMTD Funded Amount (Previouse Funded Amount)

select sum(loan\_amount) as PMTD\_total\_funded\_amount from loan

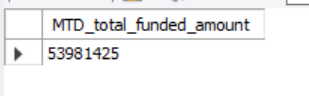
where issue\_date like ("%-11-2021");



MTD Funded Amount (Month to date Funded Amount)

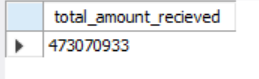
select sum(loan\_amount) as MTD\_total\_funded\_amount from loan

where issue\_date like ("%-12-2021");



**Total Amount Received**

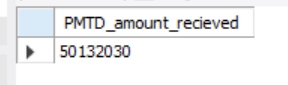
selecT SUM(total\_payment) AS total\_amount\_recieved from loan;



**PMTD** **Amount Received**

select sum(total\_payment) as PMTD\_amount\_recieved from loan

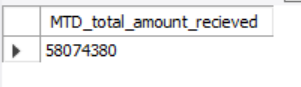
where issue\_date like ("%-11-2021");



MTD **Total Amount**

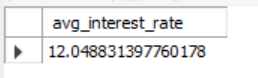
select sum(total\_payment) as MTD\_total\_amount\_recieved from loan

where issue\_date like ("%-12-2021");



**Average Interest Rate**

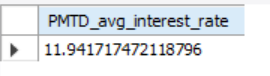
select avg(int\_rate) \* 100 AS avg\_interest\_rate from loan;



PMTD **Average Interest Rate**

select avg(int\_rate) \* 100 as PMTD\_avg\_interest\_rate from loan

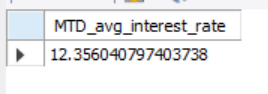
where issue\_date like ("%-11-2021");



MTD **Average Interest Rate**

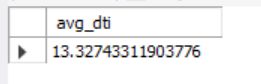
select avg(int\_rate) \* 100 as MTD\_avg\_interest\_rate from loan

where issue\_date like ("%-12-2021");



**Avg DTI**

select avg(dti) \* 100 AS avg\_interest\_rate from loan;



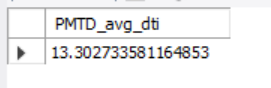
PMTD **Avg DTI**

SELECT

AVG(dti) \* 100 AS PMTD\_avg\_dti

FROM loan

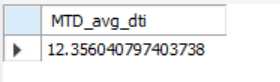
WHERE issue\_date LIKE ('%-11-2021');



**MTD Avg DTI**

select avg(int\_rate) \* 100 as MTD\_avg\_dti from loan

where issue\_date like ("%-12-2021");



**Good Loan Issued**

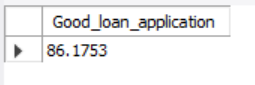
**Good Loan Percentage**

select

count(case when

loan\_status in ("Fully Paid" , "Current" ) then id end) \* 100 /

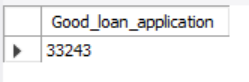
count(id) as Good\_loan\_application from loan;



**Good Loan Applications**

select count(id) from loan

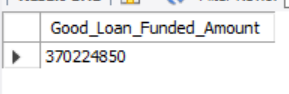
where loan\_status="Fully Paid" or loan\_status="Current";



**Good Loan Funded Amount**

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

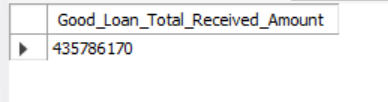
where loan\_status="Fully Paid" or loan\_status="Current";



**Good Loan Amount Received**

select sum(total\_payment) as Good\_Loan\_Total\_Received\_Amount from loan

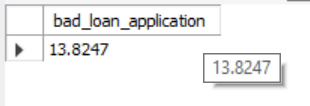
where loan\_status="Fully Paid" or loan\_status="Current";



**Bad Loan Issued:**

**Bad Loan Percentage**

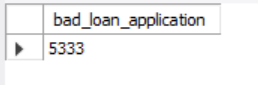
select count(case when loan\_status ='Charged Off' then id end) \* 100 / count(id) as bad\_loan\_application from loan;



**Bad Loan Applications**

select count(id) as bad\_loan\_application from loan

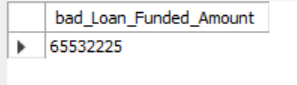
where loan\_status='Charged Off';



**Bad Loan Funded Amount**

select sum(loan\_amount) as bad\_Loan\_Funded\_Amount from loan

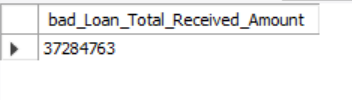
where loan\_status='Charged Off';



**Bad Loan Amount Received**

select sum(total\_payment) as bad\_Loan\_Total\_Received\_Amount from loan

where loan\_status='Charged Off';



**LOAN STATUS**

SELECT

loan\_status,

COUNT(id) AS LoanCount,

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

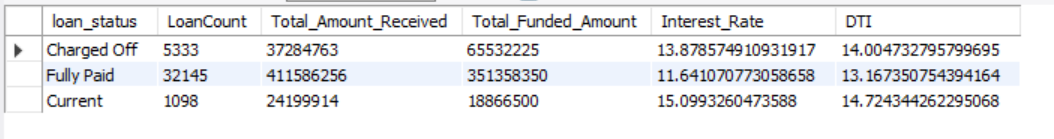
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

AVG(dti \* 100) AS DTI

FROM bank\_loan\_data

GROUP BY loan\_status

****

select loan\_status,

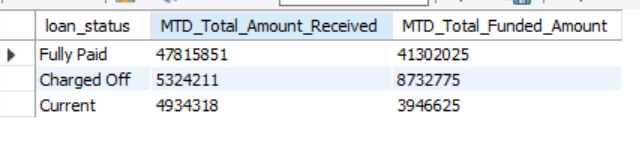
sum(total\_payment) as MTD\_Total\_Amount\_Received,

sum(loan\_amount) as MTD\_Total\_Funded\_Amount

from loan

where issue\_date like ("%-12-2021")

group by loan\_status;



select loan\_status,

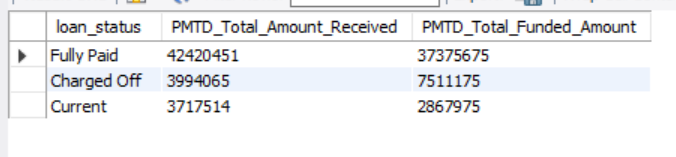
sum(total\_payment) as PMTD\_Total\_Amount\_Received,

sum(loan\_amount) as PMTD\_Total\_Funded\_Amount

from loan

where issue\_date like ("%-11-2021")

group by loan\_status;



Dashboard – 2

1. **BANK LOAN REPORT | OVERVIEW**

**MONTH**

SELECT

MONTH(issue\_date) AS Month\_Munber,

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,

COUNT(id) AS total\_loan\_application,

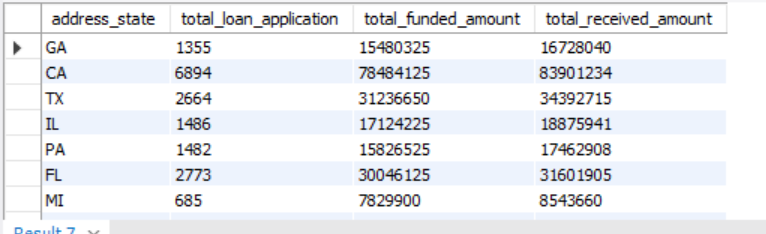
SUM(loan\_amount) AS total\_funded\_amount,

SUM(total\_payment) AS total\_received\_amount

FROM loan

GROUP BY address\_state

ORDER BY sum(address\_state) desc;



**EMPLOYEE LENGTH**

SELECT

emp\_length,

COUNT(id) AS total\_loan\_application,

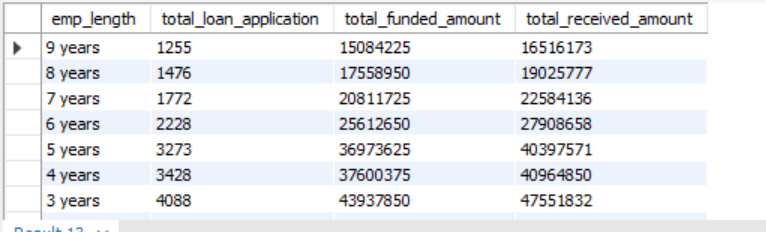
SUM(loan\_amount) AS total\_funded\_amount,

SUM(total\_payment) AS total\_received\_amount

FROM loan

GROUP BY emp\_length

ORDER BY emp\_length desc;



**Purpose**

SELECT

purpose,

COUNT(id) AS total\_loan\_application,

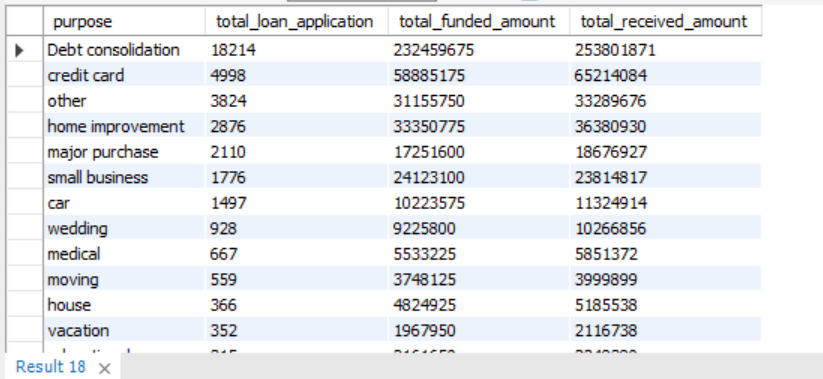
SUM(loan\_amount) AS total\_funded\_amount,

SUM(total\_payment) AS total\_received\_amount

FROM loan

GROUP BY purpose

ORDER BY count(id) desc;



**Home Ownership:**

SELECT

home\_ownership,

COUNT(id) AS total\_loan\_application,

SUM(loan\_amount) AS total\_funded\_amount,

SUM(total\_payment) AS total\_received\_amount

FROM loan

GROUP BY home\_ownership

ORDER BY count(id) desc;

