**BANK LOAN REPORT - SQL Queries**

1. **Summary Dashboard:**

**Key Performance Indicators (KPIs):**

**Total Loan Applications**

select COUNT(id) as Total\_Loan\_Applications from bank\_loan\_data



**MTD Loan Applications**

SELECT COUNT(id) AS MTD\_Total\_Loan\_Applications

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

)



**PMTD Loan Applications**

SELECT COUNT(id) AS PMTD\_Total\_Loan\_Applications

FROM bank\_loan\_data

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

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



**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\_Received from bank\_loan\_data



**MTD Total Amount Received**

select sum(total\_payment) as MTD\_Total\_Amount\_Received from bank\_loan\_data

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



**PMTD Total Amount Received**

select sum(total\_payment) as MTD\_Total\_Amount\_Received from bank\_loan\_data

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



**Average Interest Rate**

select Round(AVG(int\_rate) \*100 , 2) as Avg\_Interest\_Rate

from bank\_loan\_data



**MTD Average Interest**

select Round(AVG(int\_rate) \*100 , 2) 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) \*100 , 2) as MTD\_Avg\_Interest\_Rate

from bank\_loan\_data

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



**Avg DTI**

select Round(AVG(dti)\*100,2) as Avg\_DTI from bank\_loan\_data



**MTD Avg DTI**

select Round(AVG(dti)\*100,2) 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)\*100,2) 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(CASE WHEN loan\_status = 'Fully Paid' OR

loan\_status = 'Current' THEN id END)

AS Good\_Loan\_Applications

FROM bank\_loan\_data



**Good Loan Funded Amount**

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

where loan\_status IN ('Fully Paid','Current')



**Good Loan Amount Received**

select sum(total\_payment) as Good\_Loan\_Amount\_Received from bank\_loan\_data

where loan\_status IN ('Fully Paid','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\_Loan\_Applications,

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

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

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

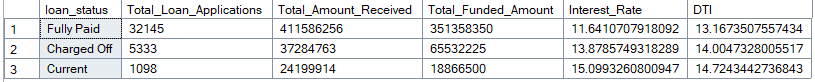
AVG(dti \* 100) AS DTI

FROM

bank\_loan\_data

GROUP BY

loan\_status



SELECT

loan\_status,

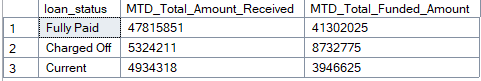
SUM(total\_payment) AS MTD\_Total\_Amount\_Received,

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

FROM bank\_loan\_data

WHERE MONTH(issue\_date) = 12

GROUP BY loan\_status



1. **Overview Dashboard:**

**MONTH**

SELECT

MONTH(issue\_date) AS Month\_Munber,

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

COUNT(id) AS Total\_Loan\_Applications,

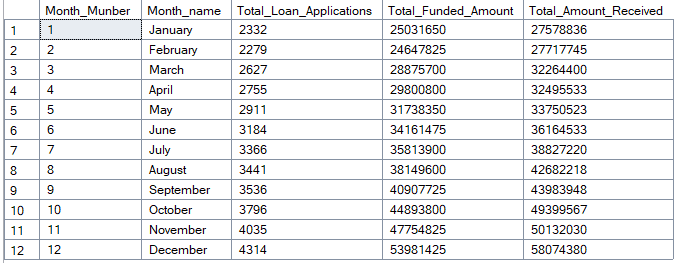
SUM(loan\_amount) AS Total\_Funded\_Amount,

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\_Applications,

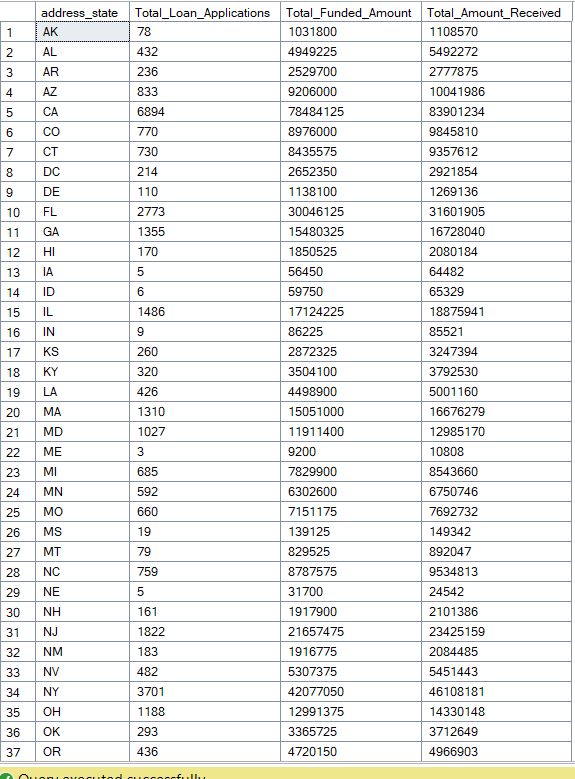
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY address\_state

ORDER BY address\_state



**TERM**

SELECT

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,

COUNT(id) AS Total\_Loan\_Applications,

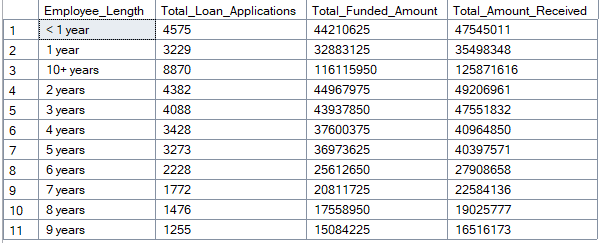
SUM(loan\_amount) AS Total\_Funded\_Amount,

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,

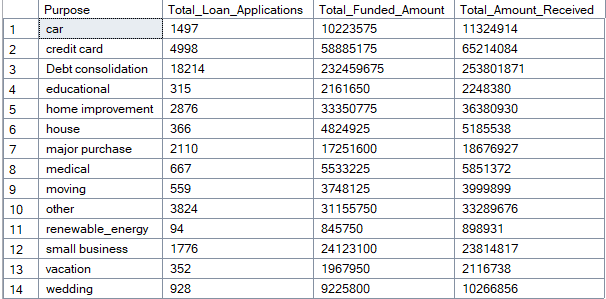
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY purpose

ORDER BY purpose



**HOME OWNERSHIP**

SELECT

home\_ownership,

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

