**BANK LOAN REPORT QUERY DOCUMENT**

1. **BANK LOAN REPORT | SUMMARY**

**KPI’s:**

**Total Loan Applications:**

select count(id) as Total\_Loan\_Application from financial\_loan



MTD Loan Applications:

select count(id) as MTD\_Total\_Loan\_Application from financial\_loan

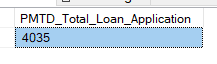
where month(issue\_date) = 12 AND year(issue\_date) = 2021



**PMTD Loan Applications:**

select count(id) as PMTD\_Total\_Loan\_Application from financial\_loan

where month(issue\_date) = 11 AND year(issue\_date) = 2021



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**Total Funded Amount:**

select sum(loan\_amount) as Total\_Funded\_Amount from financial\_loan



MTD Total funded Amount:

select sum(loan\_amount) as MTD\_Total\_Funded\_Application from financial\_loan

where month(issue\_date) = 12 AND year(issue\_date) = 2021



PMTD Total Funded Amount:

select sum(loan\_amount) as PMTD\_Total\_Funded\_Application from financial\_loan

where month(issue\_date) = 11 AND year(issue\_date) = 2021



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**Total Amount Received:**

select sum(total\_payment) as Total\_Amount\_Amount from financial\_loan

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MTD Total Amount:

select sum(total\_payment) as MTD\_Total\_Amount from financial\_loan

where month(issue\_date) = 12 AND year(issue\_date) = 2021

****

PMTD Total Amount:

select sum(total\_payment) as PMTD\_Total\_Amount from financial\_loan

where month(issue\_date) = 11 AND year(issue\_date) = 2021



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**Average Interest Rate:**

select avg(int\_rate)\*100 as Avg\_Int\_Rate from financial\_loan



MTD Avg\_Int\_Rate:

select avg(int\_rate)\*100 as MTD\_Total\_Amount from financial\_loan

where month(issue\_date) = 12 AND year(issue\_date) = 2021



PMTD Avg\_Int\_Rate:

select avg(int\_rate)\*100 as PMTD\_Total\_Amount from financial\_loan

where month(issue\_date) = 11 AND year(issue\_date) = 2021



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**Average Debt-to-Income Ratio (DTI):**

select avg(dti)\*100 as Avg\_DTI from financial\_loan

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MTD Avg\_DTI:

select avg(dti)\*100 as MTD\_Avg\_DTI from financial\_loan

where month(issue\_date) = 12



PMTD Avg\_DTI:

select avg(dti)\*100 as PMTD\_Avg\_DTI from financial\_loan

where month(issue\_date) = 11



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**GOOD LOAN ISSUED**

**Good Loan Percentage**

SELECT

(COUNT(CASE WHEN loan\_status IN ('fully paid', 'current') THEN id END) \* 100.0)

/ COUNT(\*) AS good\_loan\_percentage FROM financial\_loan;



**Good Loan Application:**

SELECT COUNT(id) AS good\_loan\_applications FROM financial\_loan

WHERE loan\_status IN ('fully paid', 'current');

****

**Good Loan Funded Amount:**

SELECT SUM(loan\_amount) AS good\_loan\_funded\_amount

FROM financial\_loan

WHERE loan\_status IN ('fully paid', 'current');



**Good Loan Total Received Amount:**

SELECT SUM(total\_payment) AS good\_loan\_received\_amount

FROM financial\_loan

WHERE loan\_status IN ('fully paid', 'current');

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**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 financial\_loan;

****

**Bad Loan Applications**

SELECT COUNT(id) AS bad\_loan\_applications

FROM financial\_loan

WHERE loan\_status = 'Charged off';

****

**Bad Loan Funded Amount**

SELECT SUM(loan\_amount) AS bad\_loan\_funded\_amount

FROM financial\_loan

WHERE loan\_status = 'Charged off';

****

**Bad Loan Amount Received**

SELECT SUM(total\_payment) AS bad\_loan\_funded\_amount

FROM financial\_loan

WHERE loan\_status = 'Charged off';

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**LOAN STATUS**

SELECT loan\_status AS Loan\_Status,

COUNT(id) AS Total\_Loan\_Applications,

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

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

AVG(int\_rate\*100) AS Average\_Interest\_Rate,

AVG(dti\*100) AS Average\_DTI\_Ratio

FROM financial\_loan

GROUP BY Loan\_Status;

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SELECT loan\_status,

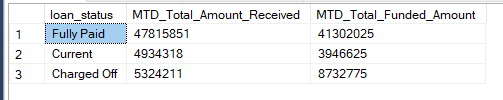
SUM(total\_payment) AS MTD\_Total\_Amount\_Received,

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

FROM financial\_loan

WHERE MONTH(issue\_date) = 12

GROUP BY loan\_status

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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,

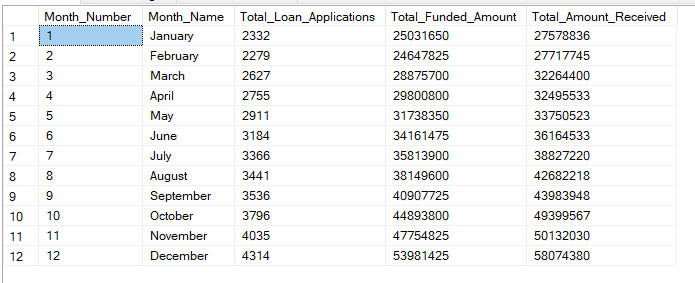
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM financial\_loan

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,

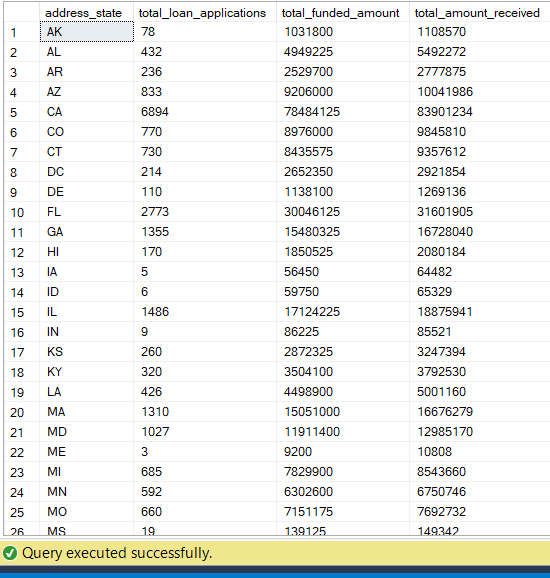
SUM(loan\_amount) AS Total\_Funded\_Amount,

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

FROM bank\_loan\_data

GROUP BY address\_state

ORDER BY address\_state

****

**TERM**

SELECT

term as Term,

COUNT(id) AS total\_loan\_applications,

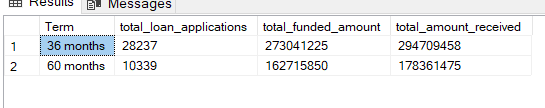
SUM(loan\_amount) AS total\_funded\_amount,

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

FROM financial\_loan

GROUP BY term

ORDER BY term;



**EMPLOYEE LENGTH**

SELECT

emp\_length,

COUNT(id) AS total\_loan\_applications,

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

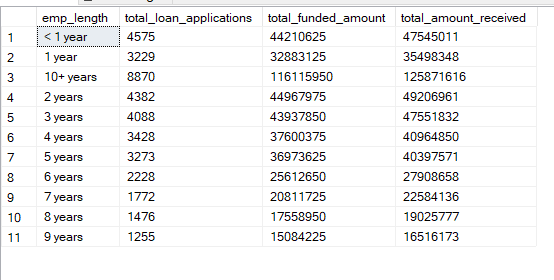
SUM(total\_payment) AS total\_amount\_received

FROM

financial\_loan

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,

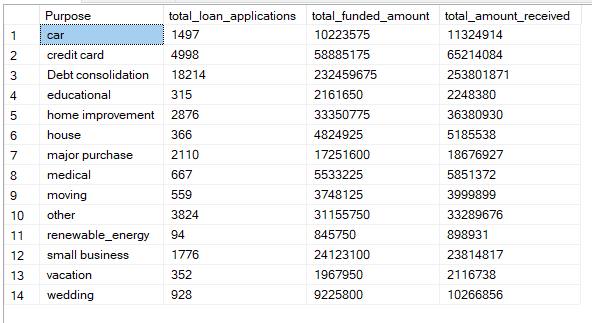
SUM(total\_payment) AS total\_amount\_received

FROM

financial\_loan

GROUP BY purpose

ORDER BY purpose;

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**HOME OWNERSHIP**

SELECT

home\_ownership as Home\_OwnerShip,

COUNT(id) AS total\_loan\_applications,

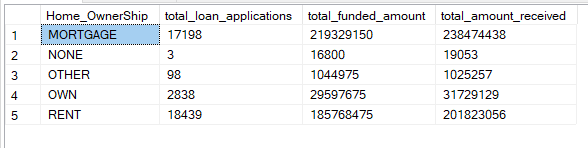
SUM(loan\_amount) AS total\_funded\_amount,

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

FROM financial\_loan

GROUP BY home\_ownership

ORDER BY home\_ownership;

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*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*

*purpose AS PURPOSE,*

*COUNT(id) AS Total\_Loan\_Applications,*

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

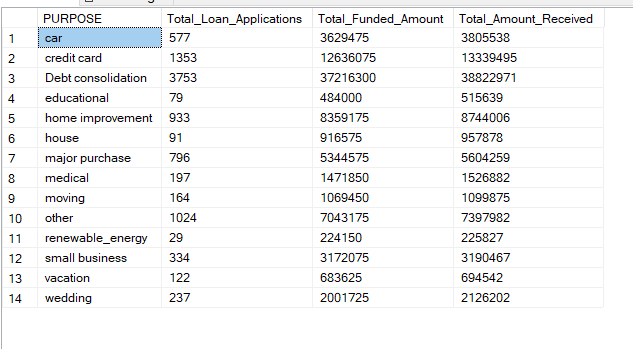
*SUM(total\_payment) AS Total\_Amount\_Received*

*FROM bank\_loan\_data*

*WHERE grade = 'A'*

*GROUP BY purpose*

*ORDER BY purpose*



MTD:

MTD Amount Received = CALCULATE(TOTALMTD([Total Amount Received],'Date Table'[Date]))

PMTD:

PMTD Total Funded Amount = CALCULATE([Total Funded Amount],DATESMTD(DATEADD('Date Table'[Date],-1,MONTH)))

MOM:

MOM Loan Application = ([MTD Loan Applications]-[PMTD Loan Applications])/[PMTD Loan Applications]

Total:

Total Funded Amount = SUM(financial\_loan[loan\_amount])