**BANK LOAN REPORT QUERY DOCUMENT**

**DASHBOARD 1**

KPI’s(Key Performance Indicators)

**1. Calculate the total loan applications received**

SELECT

COUNT(id) AS Total\_loan\_applications\_received

FROM bank\_loan\_data;

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**2. Calculate the MTD (month-to-date) loan applications for December 2021**

SELECT

COUNT(id) AS MTD\_Total\_loan\_applications\_received\_december

FROM bank\_loan\_data

WHERE

MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021;



**3. Calculate the (MOM -month over the month) PMTD (Previous-month-to-date) loan applications for November 2021**

SELECT

COUNT(id) AS PMTD\_total\_loan\_applications\_received\_november

FROM bank\_loan\_data

WHERE

MONTH(issue\_date) = 11 AND YEAR(issue\_date)= 2021;

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**4. Total Funded Amount by Bank**

SELECT

SUM(loan\_amount) AS Total\_funded\_Amount

FROM bank\_loan\_data;

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**5. Total Funded Amount by Bank in December 2021 (MTD)**

SELECT

SUM(loan\_amount) AS Total\_funded\_Amount\_Dec\_2021

FROM bank\_loan\_data

WHERE

MONTH(issue\_date) = 12

AND

YEAR(issue\_date) = 2021;



**6. Total Funded Amount by Bank in November 2021 (PMTD)**

SELECT

SUM(loan\_amount) AS Total\_funded\_Amount\_Nov\_2021

FROM bank\_loan\_data

WHERE

MONTH(issue\_date) = 11

AND

YEAR(issue\_date) = 2021;

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**7. Calculate the total loan amount received by the Bank**

SELECT

SUM(total\_payment) As total\_amount\_collected\_by\_bank

FROM bank\_loan\_data;



**8. Calculate the total loan amount received by the Bank in the month of December (MTD)**

SELECT

SUM(total\_payment) As total\_amount\_collected\_by\_bank\_MTD

FROM bank\_loan\_data

WHERE

MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021;

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**9. Calculate the total loan amount received by Bank in November (PMTD)**

SELECT

SUM(total\_payment) As total\_amount\_collected\_by\_bank\_PMTD

FROM bank\_loan\_data

WHERE

MONTH(issue\_date) = 11 AND YEAR(issue\_date) = 2021;



**10. Calculate the Average Interest rate for all the loans**

SELECT

ROUND(AVG(int\_rate),4)\*100 AS Average\_Bank\_intrest\_rate

FROM bank\_loan\_data;



**11. Calculate the Average Interest rate for all the loans in the month of December 2021 (MTD)**

SELECT

ROUND(AVG(int\_rate), 4)\*100 AS MTD\_Average\_Bank\_intrest\_rate\_Dec

FROM bank\_loan\_data

WHERE

MONTH(issue\_date) = 12 AND YEAR(issue\_date) =2021;

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**12. Calculate the Average Interest rate for all the loans in November 2021 (PMTD)**

SELECT

ROUND(AVG(int\_rate), 4)\*100 AS PMTD\_Average\_Bank\_intrest\_rate\_Nov

FROM bank\_loan\_data

WHERE

MONTH(issue\_date) = 11 AND YEAR(issue\_date) =2021;

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**13. Calculate the Average DTI-(Dept-to-Income) ratio of customers**

SELECT

ROUND(AVG(dti),4)\*100 AS Avg\_DTI\_of\_customers

FROM bank\_loan\_data;

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**14. Calculate the Average MTD-DTI-(Dept-to-Income) ratio of customers in the month of December 2021**

SELECT

ROUND(AVG(dti),4)\*100 AS Avg\_MTD\_DTI\_of\_customers

FROM bank\_loan\_data

WHERE

MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021

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**15. Calculate the Average PMTD-DTI-(Dept-to-Income) ratio of customers in the month of November 2021**

SELECT

ROUND(AVG(dti),4)\*100 AS Avg\_PMTD\_DTI\_of\_customers

FROM bank\_loan\_data

WHERE

MONTH(issue\_date) = 11 AND YEAR(issue\_date) = 2021



**Good Loan KPI’s**

**1. Find the total number of application percentages for Good loans.**

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;

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**2. Find the total number of good loan applications?**

SELECT

COUNT(id) AS good\_loanapplications

FROM bank\_loan\_data

WHERE

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

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**3. Find the total Good loan funded amount/sanctioned amount**

SELECT

SUM(loan\_amount) AS Good\_loan\_funded\_amount

FROM bank\_loan\_data

WHERE

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

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**4. Find the Total amount received from customers for the Good loan funded amount/sanctioned amount**

SELECT

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

FROM bank\_loan\_data

WHERE

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

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**Bad Loan KPI’s**

**1. Find the total number of application percentages for bad loans.**

SELECT

(COUNT(CASE WHEN loan\_status = 'Charged Off' THEN id END)\*100)

/

COUNT(ID) AS Good\_loan\_percentage

FROM bank\_loan\_data

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**2. Find the total number of bad loan applications.**

SELECT

COUNT(id) AS bad\_loan\_applications

FROM bank\_loan\_data

WHERE

loan\_status = 'Charged Off';

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**3. Find the total Bank Bad loan funded amount/sanctioned amount**

SELECT

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

FROM bank\_loan\_data

WHERE

loan\_status = 'Charged Off';

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**4. Find the Total amount received from customers for the Bad loan funded amount/sanctioned amount**

SELECT

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

FROM bank\_loan\_data

WHERE

loan\_status = 'Charged Off' ;

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# LOAN STATUS

**1. Calculate the overall Bank 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 Avg\_intrest,

AVG(dti\*100) AS DTI

FROM bank\_loan\_data

GROUP BY

loan\_status;

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**2. Find the loan status for December MTD in the year 2021**

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 AND YEAR(issue\_date) = 2021

GROUP BY

loan\_status;

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