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**BANK LOAN REPORT QUERY DOCUMENT**

**A: BANK LOAN REPORT | SUMMARY**

**KPI’s:**

KPI1

1. **Total Loan Applications**

SELECT COUNT(id) AS 'Total\_Loan\_applications'

FROM dbo.bank\_loan\_data;



1. **MTD Loan Applications:**

**MTD** stands for **Month-to-Date**. It refers to the period starting from the beginning of the current month up to the current date. In the context of your loan analysis project, MTD would represent all loan applications that have been submitted from the **first day of the current month** until **today**.

SELECT COUNT(id) AS MTD\_Loan\_Applications

FROM dbo.bank\_loan\_data

WHERE Month(issue\_date) = (SELECT MONTH(MAX(issue\_date)) FROM dbo.bank\_loan\_data)

AND

YEAR(issue\_date) = (SELECT YEAR(MAX(issue\_date)) FROM dbo.bank\_loan\_data);



1. PMTD Loan Applications:

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

FROM dbo.bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MONTH(MAX(issue\_date)) FROM dbo.bank\_loan\_data) - 1

AND

YEAR(issue\_date) = (SELECT YEAR(MAX(issue\_date)) FROM dbo.bank\_loan\_data);



KPI2

1. **Total Funded Amount:**

SELECT SUM(loan\_amount) as Total\_Funded\_Amount

FROM dbo.bank\_loan\_data;



1. **MTD Funded Amount:**

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

FROM dbo.bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MONTH(MAX(issue\_date)) FROM dbo.bank\_loan\_data)

AND

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

****

1. **PMTD Funded Amount:**

SELECT SUM(loan\_amount) AS PMTD\_Funded\_Amount

FROM dbo.bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MONTH(MAX(issue\_date)) FROM dbo.bank\_loan\_data) - 1

AND

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

****

KPI3

1. **Total Amount Received:**

SELECT SUM(total\_payment) as Total\_Amount\_Received

FROM dbo.bank\_loan\_data;

****

1. **MTD Amount Received..**

SELECT SUM(total\_payment) as MTD\_Amount

FROM dbo.bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MONTH(MAX(issue\_date)) FROM dbo.bank\_loan\_data)

AND

YEAR(issue\_date) = (SELECT YEAR(MAX(issue\_date)) FROM dbo.bank\_loan\_data);

****

1. **PMTD Amount Received…**

SELECT SUM(total\_payment) as PMTD\_Amount\_Received

FROM dbo.bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MONTH(MAX(issue\_date)) FROM dbo.bank\_loan\_data) - 1

AND

YEAR(issue\_date) = (SELECT YEAR(MAX(issue\_date)) FROM dbo.bank\_loan\_data);

****

KPI4

1. **AVG Interest Rate:**

SELECT AVG(int\_rate)\*100 AS AVG\_interest\_rate

FROM dbo.bank\_loan\_data;

****

1. **MTD Avg Interest Rate:**

SELECT AVG(int\_rate)\*100 AS AVG\_MTD\_interest\_rate

FROM dbo.bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MONTH(MAX(issue\_date)) FROM dbo.bank\_loan\_data)

AND

YEAR(issue\_date) = (SELECT YEAR(MAX(issue\_date)) FROM dbo.bank\_loan\_data);

****

1. **PMTD Avg Interest Rate:**

SELECT AVG(int\_rate)\*100 AS AVG\_PMTD\_interest\_rate

FROM dbo.bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MONTH(MAX(issue\_date)) FROM dbo.bank\_loan\_data) - 1

AND

YEAR(issue\_date) = (SELECT YEAR(MAX(issue\_date)) FROM dbo.bank\_loan\_data);

****

KPI5

1. **AVG DTI:**

SELECT AVG(dti)\*100 AS AVG\_dti

FROM dbo.bank\_loan\_data;

****

1. **MTD DTI:**

SELECT AVG(dti)\*100 AS AVG\_MTD\_dti

FROM dbo.bank\_loan\_data

WHERE MONTH(issue\_date) = 12;

****

1. **PMTD DTI:**

SELECT AVG(dti)\*100 AS AVG\_PMTD\_dti

FROM dbo.bank\_loan\_data

WHERE MONTH(issue\_date) = (SELECT MONTH(MAX(issue\_date)) FROM dbo.bank\_loan\_data) - 1

AND

YEAR(issue\_date) = (SELECT YEAR(MAX(issue\_date)) FROM dbo.bank\_loan\_data);

****

GOOD LOAN vs BAD LOAN

1. **Good Loan Percentage:**

SELECT(COUNT(

CASE WHEN loan\_status = 'Fully Paid' OR loan\_status = 'Current' THEN id END)\*100.0)/

COUNT(id) AS good\_loan\_percentage

FROM dbo.bank\_loan\_data;



1. **Good Loan Applications:**

SELECT(

COUNT( CASE WHEN loan\_status = 'Fully Paid' OR loan\_status = 'Current' THEN id END)) AS good\_loan\_applications

FROM dbo.bank\_loan\_data;



1. **Good Loan Funded Amount**:

SELECT

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

FROM dbo.bank\_loan\_data

WHERE loan\_status IN ('Fully Paid', 'Current');



1. **Good Loan Amount Received..**

SELECT

SUM(total\_payment) AS 'Good\_Loan\_Amount\_Received'

FROM dbo.bank\_loan\_data

WHERE loan\_status IN ('Fully Paid', 'Current');



1. **Bad Loan Percentage:**

SELECT (

COUNT(

CASE WHEN loan\_status='Charged Off' THEN id END

)\*100.0 / COUNT(id)) as 'Bad\_Loan\_Percentage'

FROM dbo.bank\_loan\_data;



1. **Bad Loan Applications:**

SELECT

COUNT(id) as 'Bad\_Loan\_Applications'

FROM dbo.bank\_loan\_data

WHERE loan\_status='Charged Off';



1. **Bad Loan Funded Amount:**

SELECT

SUM(loan\_amount) AS 'Bad\_loan\_funded\_Amount'

FROM dbo.bank\_loan\_data

WHERE loan\_status='Charged Off';



1. **Bad Loan Amount Received:**

SELECT SUM(total\_payment) Bad\_Loan\_Amount\_Received

FROM dbo.bank\_loan\_data

WHERE loan\_status='Charged Off';



Loan Status

1. **Loan Status:**

SELECT loan\_status, COUNT(id) LoanCount,

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

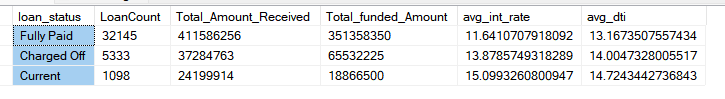
SUM(loan\_amount) Total\_funded\_Amount,

AVG(int\_rate)\*100 avg\_int\_rate,

AVG(dti)\*100 avg\_dti

FROM dbo.bank\_loan\_data

GROUP BY loan\_status;



1. **Loan status:**

SELECT loan\_status,

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

SUM(loan\_amount) MTD\_funded\_amount

FROM dbo.bank\_loan\_data

WHERE

MONTH(issue\_date) = (SELECT MONTH(MAX(issue\_date)) FROM dbo.bank\_loan\_data)

AND

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

GROUP BY loan\_status;



1. **BANK LOAN REPORT | OVERVIEW**

**Month**

SELECT

MONTH(issue\_date) as Month\_Number,

DATENAME(mm, issue\_date) AS Month\_Name,

COUNT(id) AS total\_loan\_applications,

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

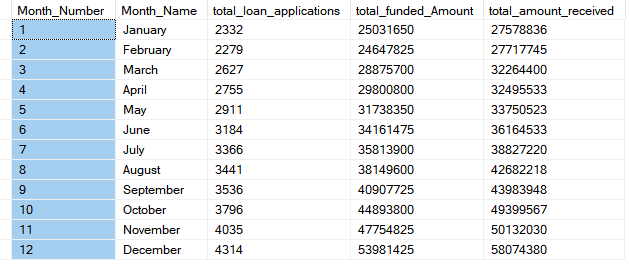
SUM(total\_payment) AS total\_amount\_received

FROM dbo.bank\_loan\_data

GROUP BY MONTH(issue\_date),

DATENAME(mm,issue\_date)

ORDER BY MONTH(issue\_date);



STATE:

SELECT address\_state AS State,

count(id) as total\_loan\_applications,

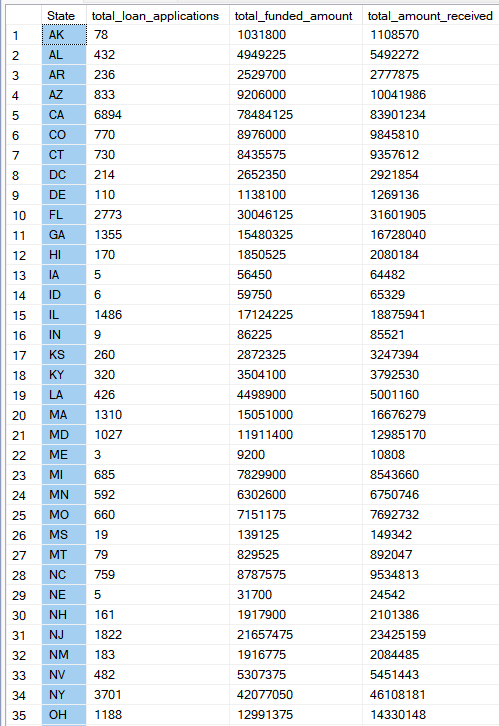
SUM(loan\_amount) as total\_funded\_amount,

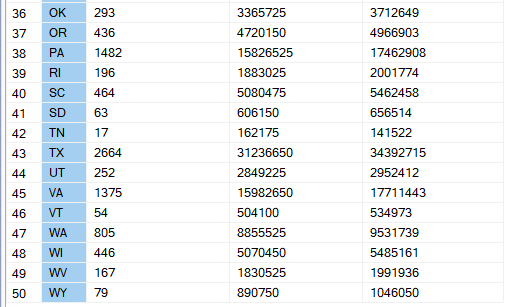
SUM(total\_payment) as total\_amount\_received

FROM dbo.bank\_loan\_data

GROUP BY address\_state

ORDER BY address\_state;





Term:

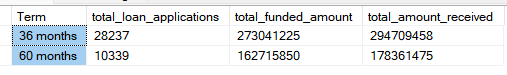
SELECT term as Term, COUNT(id) AS total\_loan\_applications,

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

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

FROM dbo.bank\_loan\_data

GROUP BY term;



**EMPLOYEE LENGTH:**

SELECT emp\_length AS Employee\_Length,

COUNT(id) as Total\_loan\_applications,

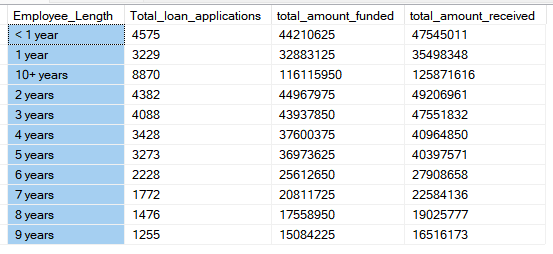
SUM(loan\_amount) AS total\_amount\_funded,

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

FROM dbo.bank\_loan\_data

GROUP BY emp\_length

ORDER BY emp\_length;



PURPOSE:

SELECT purpose,

COUNT(id) AS total\_loan\_Applications,

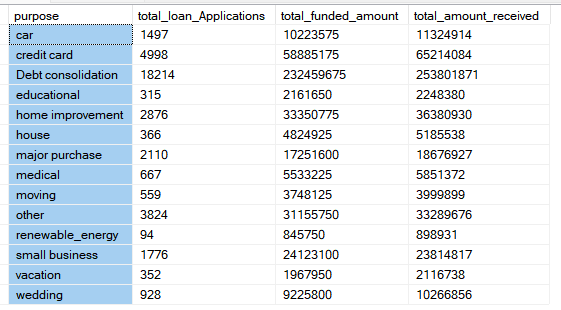
SUM(loan\_amount) as total\_funded\_amount,

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

FROM dbo.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 dbo.bank\_loan\_data

GROUP BY home\_ownership

ORDER BY home\_ownership;

