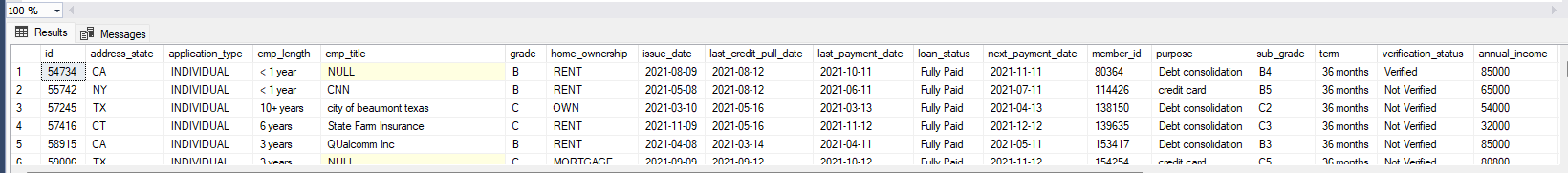
**BANK LOAN REPORT SQL Queries(using SQL Server) for results check in Power BI report**

**DASHBOARD 1 :**

SELECT \* FROM bank\_loan\_data



**Total Loan Applications**

SELECT COUNT(id) AS Total\_Loan\_Applications FROM bank\_loan\_data

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**MTD Loan Applications**

SELECT COUNT(id) AS MTD\_Applications FROM bank\_loan\_data

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



**MoM applications**

(MTD-PMTD)/PMTD = (4314-4035)/4035 = 0.0691449814126394





**Total Funded Amount**

SELECT SUM(loan\_amount) AS Total\_Funded\_Amount FROM bank\_loan\_data



**MTD Funded Amount**

SELECT SUM(loan\_amount) AS MTD\_loan\_amount FROM bank\_loan\_data

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

MTD (12 Dec)



SELECT SUM(loan\_amount) AS MTD\_loan\_amount FROM bank\_loan\_data

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

MTD (11 Nov)



From above results we can calculate MoM funded amount difference

**Total payments made by customers**

SELECT SUM(total\_payment) FROM bank\_loan\_data



**MTD payments made by customers**

SELECT SUM(total\_payment) AS MTD\_total\_amount\_received FROM bank\_loan\_data

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

****

**Average interest rate**

SELECT AVG(int\_rate)\*100 AS AVG\_int\_rate FROM bank\_loan\_data

****

**MTD\_Average interest rate**

SELECT ROUND(AVG(int\_rate)\*100,2) AS AVG\_int\_rate FROM bank\_loan\_data

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

****

**DTI debt to income ratio - average**

SELECT AVG(dti)\*100 AS avg\_dti FROM bank\_loan\_data



**MTD average DTI**



**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

****

SELECT COUNT(id) AS Good\_loan\_applications FROM bank\_loan\_data

WHERE loan\_status = 'Fully Paid' OR loan\_status = 'Current'



SELECT SUM(loan\_amount) AS Good\_loan\_funded\_amount FROM bank\_loan\_data

WHERE loan\_status = 'Fully Paid' OR loan\_status = 'Current'



SELECT SUM(total\_payment) AS Good\_loan\_funds\_received FROM bank\_loan\_data

WHERE loan\_status = 'Fully Paid' OR loan\_status = 'Current'



**Bad Loans**

SELECT

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

/COUNT(id) AS Bad\_loan\_percentage

FROM bank\_loan\_data

SELECT COUNT(id) AS Bad\_loan\_applications FROM bank\_loan\_data

WHERE loan\_status = 'Charged Off'

SELECT SUM(loan\_amount) AS Bad\_loan\_funded\_amount FROM bank\_loan\_data

WHERE loan\_status = 'Charged Off'

SELECT SUM(total\_payment) AS Bad\_loan\_funds\_received FROM bank\_loan\_data

WHERE loan\_status = 'Charged Off'

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**LOAN STATUS**

SELECT

loan\_status,

COUNT(id) AS Total\_loan\_apps,

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

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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

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**DASHBOARD 2 : OVERVIEW**

SELECT

MONTH(issue\_date),

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\_Received\_amount

FROM bank\_loan\_data

GROUP BY MONTH(issue\_date), Datename(MONTH, issue\_date)

ORDER BY MONTH(issue\_date)

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SELECT

address\_state,

COUNT(id) AS Total\_loan\_apps,

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

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

FROM bank\_loan\_data

GROUP BY address\_state

ORDER BY COUNT(id) DESC

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SELECT

term,

COUNT(id) AS Total\_loan\_apps,

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

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

FROM bank\_loan\_data

GROUP BY term

ORDER BY COUNT(id) DESC

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SELECT

emp\_length,

COUNT(id) AS Total\_loan\_apps,

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

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

FROM bank\_loan\_data

GROUP BY emp\_length

ORDER BY COUNT(id) DESC

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SELECT

purpose,

COUNT(id) AS Total\_loan\_apps,

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

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

FROM bank\_loan\_data

GROUP BY purpose

ORDER BY COUNT(id) DESC

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SELECT

home\_ownership,

COUNT(id) AS Total\_loan\_apps,

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

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

FROM bank\_loan\_data

GROUP BY home\_ownership

ORDER BY COUNT(id) DESC

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SELECT

home\_ownership,

COUNT(id) AS Total\_loan\_apps,

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

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

FROM bank\_loan\_data

WHERE Grade = 'A'

GROUP BY home\_ownership

ORDER BY COUNT(id) DESC

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