

Comprehensive Loan Summary SQL Query Document

A. Loan Report | Summary.

- Total Loan Applications

```
SELECT COUNT(id) AS Total_Applications FROM financial_loan_data
```

- Month To Date Total Applications

```
SELECT COUNT(id) AS MTD_Total_Loan_Applications FROM financial_loan_data  
WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021
```

- Previous Month to Date Applications

```
SELECT COUNT(id) AS PTMD_Total_Applications FROM financial_loan_data  
WHERE MONTH(issue_date) = 11 AND YEAR(issue_date) = 2021
```

- Total Funded Amount

```
SELECT SUM(loan_amount) AS Total_Funded_Amount FROM financial_loan_data
```

- Month to Date Total Funded Amount

```
SELECT SUM(loan_amount) AS MTD_Total_Funded_Amount FROM financial_loan_data  
WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021
```

- Previous Month to Date Total Funded Amount

```
SELECT SUM(loan_amount) AS PTMD_Total_Funded_Amount FROM financial_loan_data  
WHERE MONTH(issue_date) = 11 AND YEAR(issue_date) = 2021
```

- Total Amount Received

```
SELECT SUM(total_payment) AS Total_Amount_Collected FROM financial_loan_data
```

- Month to Date Total Amount Received

```
SELECT SUM(total_payment) AS MTD_Total_Amount_Collected FROM financial_loan_data  
WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021
```

- **Previous Month to Date Total Amount Received**

```
SELECT SUM(total_payment) AS PTMD_Total_Amount_Collected FROM financial_loan_data
WHERE MONTH(issue_date) = 11 AND YEAR(issue_date) = 2021
```

- **Average Interest Rate**

```
SELECT AVG(int_rate)*100 AS Avg_Int_Rate FROM financial_loan_data
```

- **Month to Date Average Interest**

```
SELECT AVG(int_rate)*100 AS MTD_Avg_Int_Rate FROM financial_loan_data
WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021
```

- **Previous Month to Date Average Interest**

```
SELECT AVG(int_rate)*100 AS PMTD_Avg_Int_Rate FROM financial_loan_data
WHERE MONTH(issue_date) = 11 AND YEAR(issue_date) = 2021
```

- **Avg DTI**

```
SELECT AVG(dti)*100 AS Avg_DTI FROM financial_loan_data
```

- **Month to Date Avg DTI**

```
SELECT AVG(dti)*100 AS MTD_Avg_DTI FROM financial_loan_data
WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021
```

- **Previous Month to Date Avg DTI**

```
SELECT AVG(dti)*100 AS PMTD_Avg_DTI FROM financial_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) * 100.0) / COUNT(id) AS Good_Loan_Percentage
FROM financial_loan_data
```

- **Good Loan Applications**

```
SELECT COUNT(id) AS Good_Loan_Applications FROM financial_loan_data
WHERE loan_status = 'Fully Paid' OR loan_status = 'Current'
```

- **Good Loan Funded Amount**

```
SELECT SUM(loan_amount) AS Good_Loan_Funded_amount FROM financial_loan_data
WHERE loan_status = 'Fully Paid' OR loan_status = 'Current'
```

- **Good Loan Amount Received**

```
SELECT SUM(total_payment) AS Good_Loan_amount_received FROM financial_loan_data
WHERE loan_status = 'Fully Paid' OR loan_status = '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 financial_loan_data
```

- **Loan Applications**

```
SELECT COUNT(id) AS Bad_Loan_Applications FROM financial_loan_data
WHERE loan_status = 'Charged Off'
```

- **Bad Loan Funded Amount**

```
SELECT SUM(loan_amount) AS Bad_Loan_Funded_amount FROM financial_loan_data
WHERE loan_status = 'Charged Off'
```

- **Bad Loan Amount Received**

```
SELECT SUM(total_payment) AS Bad_Loan_amount_received FROM financial_loan_data
WHERE loan_status = 'Charged Off'
```

LOAN STATUS

- **Loan Status by Grouped Loan Status**

```
SELECT
loan_status,
COUNT(id) AS LoanCount,
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
financial_loan_data
GROUP BY
loan_status
```

- MTD and Previous MTD Loans by Loan Status

```
SELECT
    loan_status,
    SUM(total_payment) AS MTD_Total_Amount_Received,
    SUM(loan_amount) AS MTD_Total_Funded_Amount
FROM financial_loan_data
WHERE MONTH(issue_date) = 12
GROUP BY loan_status
```

BANK LOAN REPORT | OVERVIEW.

- 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 financial_loan_data
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 financial_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_data
GROUP BY term
ORDER BY term
```

- EMPLOYEE LENGTH

```
SELECT
    emp_length AS Employee_Length,
    COUNT(id) AS Total_Loan_Applications,
    SUM(loan_amount) AS Total_Funded_Amount,
```

```

        SUM(total_payment) AS Total_Amount_Received
FROM financial_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 financial_loan_data
GROUP BY purpose
ORDER BY purpose

```

- 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_data
GROUP BY home_ownership
ORDER BY home_ownership

```

```

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_data
WHERE grade = 'A'
GROUP BY purpose
ORDER BY purpose

```