



# Bank Loan Report Queries

This document contains all the SQL queries used for generating the **Bank Loan Report** with key KPIs and dashboards.

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## Summary KPIs

### Total Loan Applications

```
SELECT COUNT(id) AS Total_Applications  
FROM bank_loan_data;
```

### MTD Loan Applications

```
SELECT COUNT(id) AS Total_Applications  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 12;
```

### PMTD Loan Applications

```
SELECT COUNT(id) AS Total_Applications  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 11;
```

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### Total Funded Amount

```
SELECT SUM(loan_amount) AS Total_Funded_Amount  
FROM bank_loan_data;
```

### MTD Total Funded Amount

```
SELECT SUM(loan_amount) AS Total_Funded_Amount  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 12;
```

### **PMTD Total Funded Amount**

```
SELECT SUM(loan_amount) AS Total_Funded_Amount  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 11;
```

### **Total Amount Received**

```
SELECT SUM(total_payment) AS Total_Amount_Collected  
FROM bank_loan_data;
```

### **MTD Total Amount Received**

```
SELECT SUM(total_payment) AS Total_Amount_Collected  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 12;
```

### **PMTD Total Amount Received**

```
SELECT SUM(total_payment) AS Total_Amount_Collected  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 11;
```

### **Average Interest Rate**

```
SELECT AVG(int_rate) * 100 AS Avg_Int_Rate  
FROM bank_loan_data;
```

### **MTD Average Interest**

```
SELECT AVG(int_rate) * 100 AS MTD_Avg_Int_Rate  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 12;
```

### **PMTD Average Interest**

```
SELECT AVG(int_rate) * 100 AS PMTD_Avg_Int_Rate  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 11;
```

## Average DTI

```
SELECT AVG(dt) * 100 AS Avg_DTI  
FROM bank_loan_data;
```

## MTD Avg DTI

```
SELECT AVG(dt) * 100 AS MTD_Avg_DTI  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 12;
```

## PMTD Avg DTI

```
SELECT AVG(dt) * 100 AS PMTD_Avg_DTI  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 11;
```

## 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 bank_loan_data;
```

### Good Loan Applications

```
SELECT COUNT(id) AS Good_Loan_Applications  
FROM bank_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 bank_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 bank_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 bank_loan_data;
```

### Bad Loan Applications

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

### Bad Loan Funded Amount

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

### Bad Loan Amount Received

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

## Loan Status Report

```
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 bank_loan_data
GROUP BY loan_status;
```

## MTD Loan Status Report

```
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;
```

July  
17

## Overview Reports

### By 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 bank_loan_data
GROUP BY MONTH(issue_date), DATENAME(MONTH, issue_date)
ORDER BY MONTH(issue_date);
```

### By 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;
```

### By 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 bank_loan_data  
GROUP BY term  
ORDER BY term;
```

## By 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 bank_loan_data  
GROUP BY emp_length  
ORDER BY emp_length;
```

## By 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 bank_loan_data  
GROUP BY purpose  
ORDER BY purpose;
```

## By 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 bank_loan_data  
GROUP BY home_ownership  
ORDER BY home_ownership;
```



## Example with Filter (Grade A)

```
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;
```