# **BANK LOAN ANALYSIS QUERIES**

## **Total Loan Applications**

```
SELECT COUNT(id) AS Total_Loan_Application FROM bank_loan_data

100 % 

Results Messages

Total_Loan_Application
1 38576
```

## **MTD Loan Applications**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* 

SELECT COUNT(id) AS MTD_Total_Loan_Application FROM bank_loan_data
WHERE MONTH(issue_date) = 12

100 % 

Results Messages

MTD_Total_Loan_Application
1 4314
```

## **PMTD Loan Applications**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* ** X

SELECT COUNT(id) AS PMTD_Total_Loan_Application FROM bank_loan_data

WHERE MONTH(issue_date) = 11

100 % 
Results Messages

PMTD_Total_Loan_Application
1 4035
```

#### **Total Funded Amount**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))*  

SELECT SUM(loan_amount) AS Total_Funded_Amount
FROM bank_loan_data

100 %  

Results Messages

Total_Funded_Amount
1  435757075
```

#### **MTD Total Funded Amount**

#### **PMTD Total Funded Amount**

#### **Total Amount Received**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* + ×

SELECT SUM(total_payment) AS Total_Amount_Receieved

FROM bank_loan_data

100 % 
Results Messages

Total_Amount_Receieved

1 473070933
```

#### **MTD Total Amount Received**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))*  

SELECT SUM(total_payment) AS MTD_Total_Amount_Receieved FROM bank_loan_data

WHERE MONTH(issue_date) = 12

100 %  

MTD_Total_Amount_Receieved

1  

S8074380
```

## **PMTD Total Amount Received**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))*  

SELECT SUM(total_payment) AS PMTD_Total_Amount_Receieved FROM bank_loan_data

WHERE MONTH(issue_date) = 11

100 %  

Results  Messages

PMTD_Total_Amount_Receieved
1  

50132030
```

### **Average Interest Rate**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* 

SELECT ROUND(AVG(int_rate) * 100, 2) AS Average_Interest_Rate FROM bank_loan_data

100 % 

Results 
Messages

Average_Interest_Rate
1 12.05
```

## **MTD** Average Interest Rate

## **PMTD Average Interest Rate**

### **Average DTI**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* + ×

SELECT ROUND(AVG(dti) * 100, 2) AS Average_DTI FROM bank_loan_data

100 % 
Results Messages

Average_DTI
1 13.33
```

### MTD Average DTI

### **PMTD Average DTI**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* + X

SELECT ROUND(AVG(dti) * 100, 2) AS PMTD_Average_DTI FROM bank_loan_data

WHERE MONTH(issue_date) = 11

100 % 
Results Messages

PMTD_Average_DTI
1 13.3
```

## **Good Loans Issued**

#### **Good Loan Percentage**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* 

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

100 % 

Results Messages

Good_Loan_percentage

1 86.175342181667
```

## **Good Loan Applications**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* ** X

SELECT COUNT(id) AS Good_Loan_Applications FROM bank_loan_data

WHERE loan_status = 'Fully Paid' OR loan_status = 'Current'

100 % 

Results Messages

Good_Loan_Applications
1 33243
```

### **Good Loan Founded Amount**

#### **Good Loan Amount Received**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))*  

SELECT SUM(total_payment) AS Good_Loan_Received_Amount FROM bank_loan_data

WHERE loan_status = 'Fully Paid' OR loan_status = 'Current'

100 % 

Messages

Good_Loan_Received_Amount

1  435786170
```

## **Bad Loans Issued**

### **Bad Loan Percentage**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* ** X

SELECT
(COUNT(CASE WHEN loan_status = 'Charged Off' THEN id END) * 100.0)

/
COUNT(id) AS Bad_Loan_percentage
FROM bank_loan_data

100 % * 

Bad_Loan_percentage

1 13.824657818332
```

## **Bad Loan Applications**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* 
SELECT COUNT(id) AS Bad_Loan_Applications FROM bank_loan_data

WHERE loan_status = 'Charged Off'

100 % 
Results Messages

Bad_Loan_Applications
1 5333
```

#### **Bad Loan Founded Amount**

#### **Bad Loan Amount Received**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* 
SELECT SUM(total_payment) AS Bad_Loan_Received_Amount FROM bank_loan_data

WHERE loan_status = 'Charged Off'

100 % 
Results Messages

Bad_Loan_Received_Amount
1 37284763
```

## **LOAN STATUS**

```
SQLQuery1.sql - A...P2OA2\Aditya (82))* 😕 🗙

□ SELECT

          loan_status AS Loan_Status, COUNT(id) AS Total_Applications,
          SUM(total_payment) AS Total_Amount_Recieved,
          SUM(loan_amount) AS Total_Funded_Amount, AVG(int_rate * 100) AS Interest_Rate,
          AVG(dti * 100) AS DTI
          from bank_loan_data
125 % ▼ ◀
■ Results ■ Messages

        Loan_Status
        Total_Applications
        Total_Amount_Recieved
        Total_Funded_Amount
        Interest_Rate
        DTI

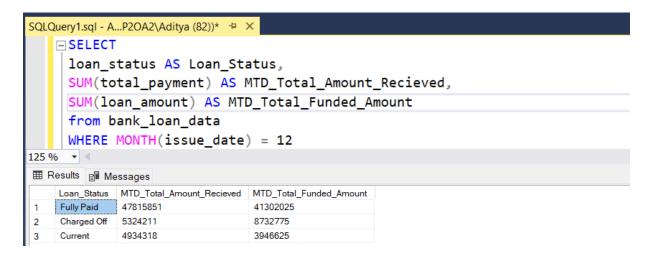
        Fully Paid
        32145
        411586256
        351358350
        11.6410707918092
        13.1673507557434

        Charged Off
        5333
        37284763
        65532225
        13.8785749318289
        14.0047328005517

        Current
        1098
        24199914
        18866500
        15.093268009047
        14.734242736843

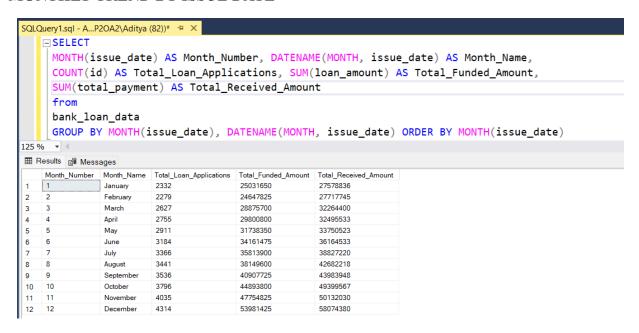
                                    37284763
24199914
                                                                           18866500
                                                                                                      15.0993260800947 14.7243442736843
                       1098
       Current
3
```

#### **MTD Loan Status**

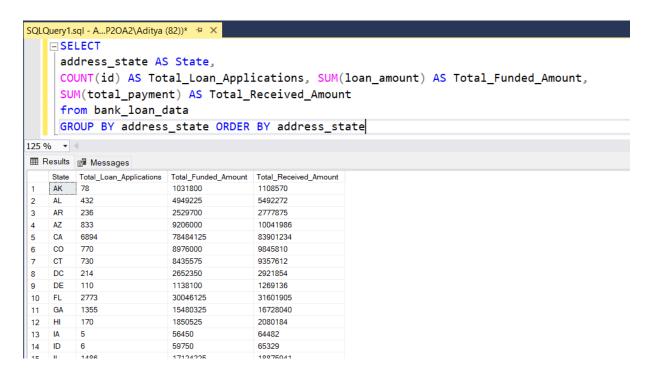


#### **OVERVIEW**

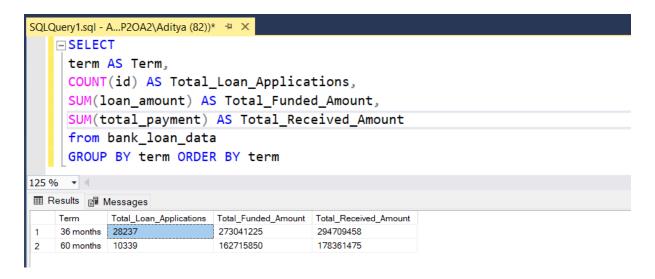
#### MONTHLY TREND BY ISSUE DATE



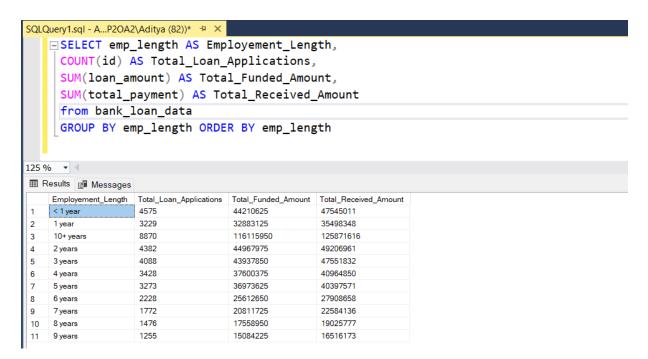
## REGIONAL ANALYSIS BY STATE



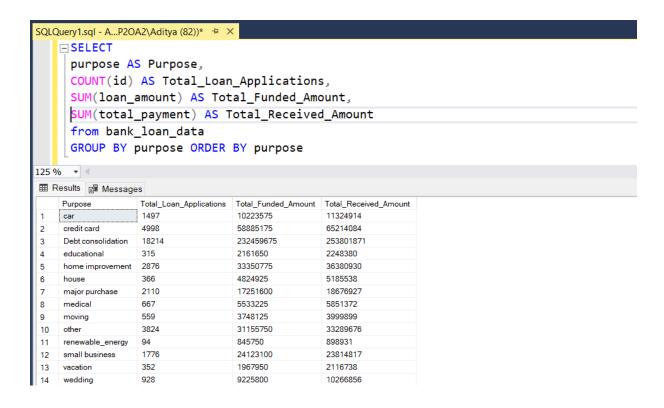
### LOAN TERM ANALYSIS



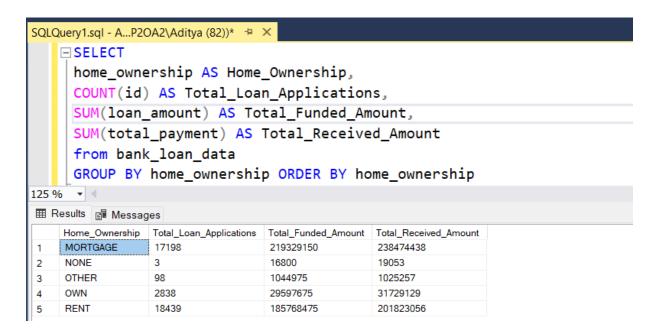
### **EMPLOYEE LENGTH ANALYSIS**

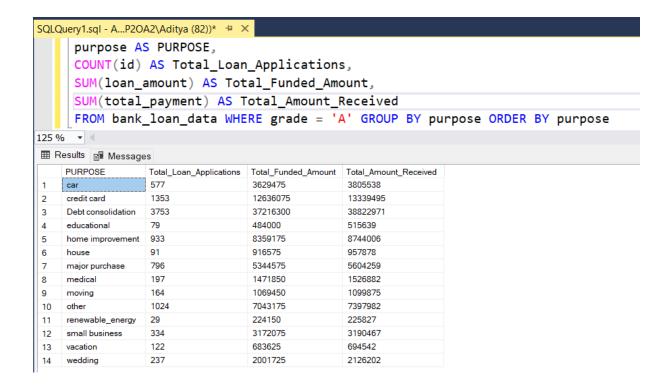


### LOAN PURPOSE ANALYSIS



#### **HOME OWNERSHIP ANALYSIS**





## **Keywords** -

MTD – Month-to-Date PMTD – Previous Month-to-Date

Note: PMTD is used to determine the MoM (Month Over Month) trend change Month to month(MoM) = (MTD - PMTD) / PMTD