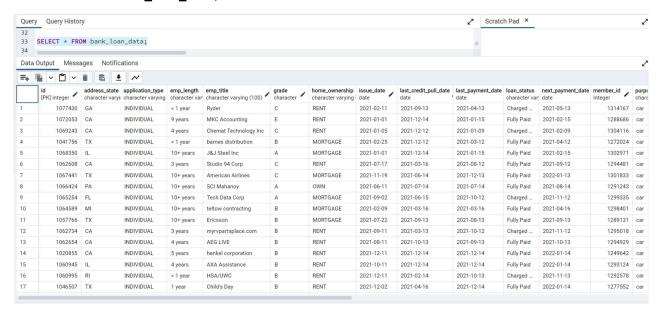
# **BANK LOAN ANALYSIS**

Bank loans are a crucial financial tool that enables individuals and businesses to achieve their goals and manage financial needs. However, it's essential for borrowers to understand the terms, costs, and responsibilities associated with loans to make informed financial decisions.

SELECT \* FROM bank\_loan\_data;



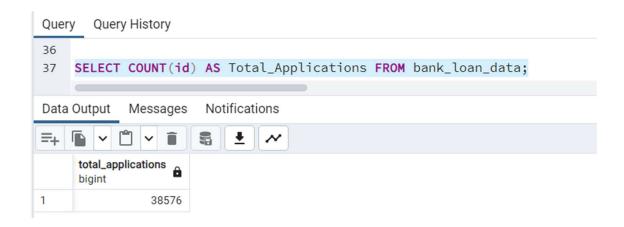
## **Check missing value**

#### SELECT \* FROM bank\_loan\_data WHERE id IS NULL;



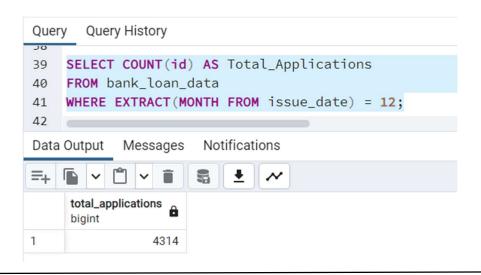
#### **Total Loan Applications**

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



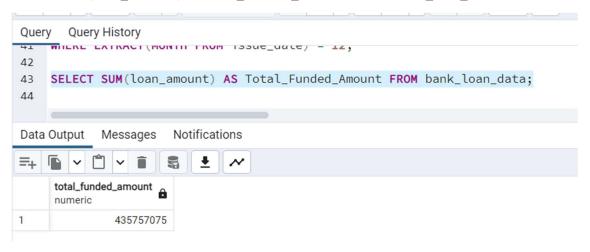
#### MTD Loan Applications:-

SELECT COUNT(id) AS Total\_Applications FROM bank\_loan\_data WHERE EXTRACT(MONTH FROM issue\_date) = 12;



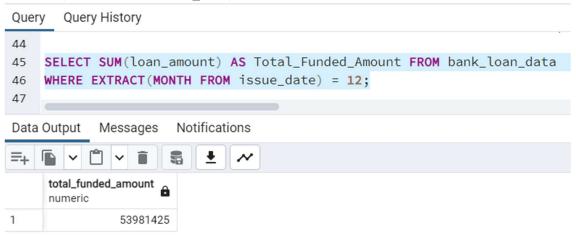
#### **Total Funded Amount**

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



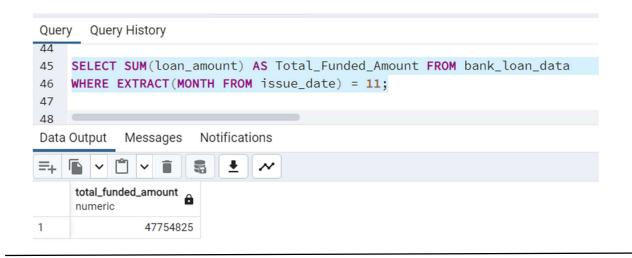
#### **MTD Total Funded Amount**

SELECT SUM(loan\_amount) AS Total\_Funded\_Amount FROM bank\_loan\_data WHERE EXTRACT(MONTH FROM issue\_date) = 12;



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

SELECT SUM(loan\_amount) AS Total\_Funded\_Amount FROM bank\_loan\_data WHERE EXTRACT(MONTH FROM issue\_date) = 11;



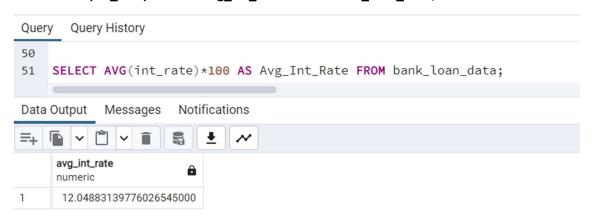
#### **Total Amount Received**

SELECT SUM(total\_payment) AS Total\_Amount\_Collected FROM bank\_loan\_data;



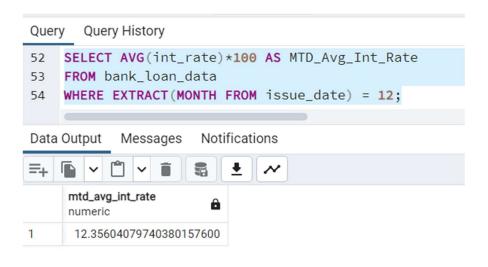
#### **Average Interest Rate**

SELECT AVG(int\_rate)\*100 AS Avg\_Int\_Rate FROM bank\_loan\_data;



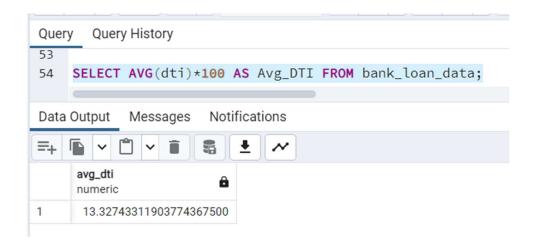
#### **MTD** Average Interest

SELECT AVG(int\_rate)\*100 AS MTD\_Avg\_Int\_Rate FROM bank\_loan\_data WHERE EXTRACT(MONTH FROM issue\_date) = 12;



#### **Avg DTI**

SELECT AVG(dti)\*100 AS Avg\_DTI FROM bank\_loan\_data;



## **MTD Avg DTI**

SELECT AVG(dti)\*100 AS MTD\_Avg\_DTI FROM bank\_loan\_data WHERE MONTH(issue\_date) = 12;



#### **GOOD LOAN ISSUED**

#### **Good Loan Percentage**

**SELECT** 

(COUNT(CASE WHEN loan\_status = 'Fully Paid' OR loan\_status = 'Current' THEN id END)
\* 100) /

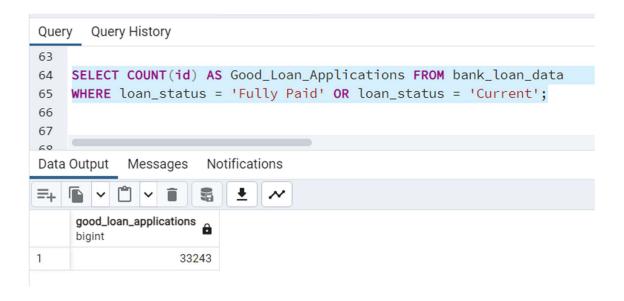
COUNT(id) AS Good\_Loan\_Percentage

FROM bank\_loan\_data;



## **Good Loan Applications**

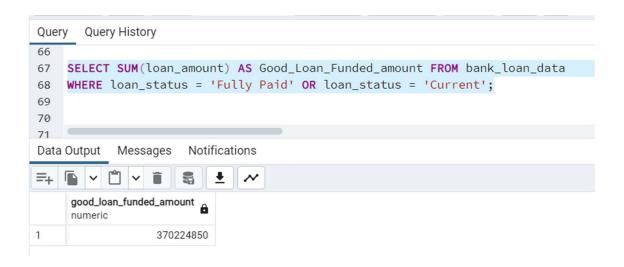
SELECT COUNT(id) AS Good\_Loan\_Applications FROM bank\_loan\_data
WHERE loan\_status = 'Fully Paid' OR loan\_status = 'Current';



#### **Good Loan Funded Amount**

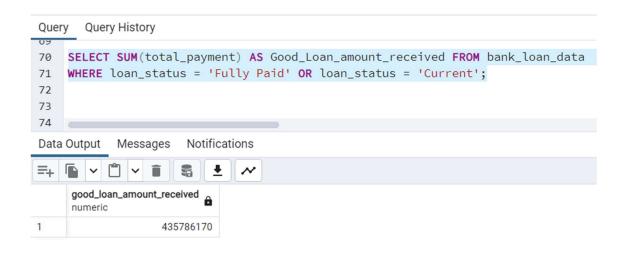
SELECT SUM(loan\_amount) AS Good\_Loan\_Funded\_amount FROM bank\_loan\_data

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';



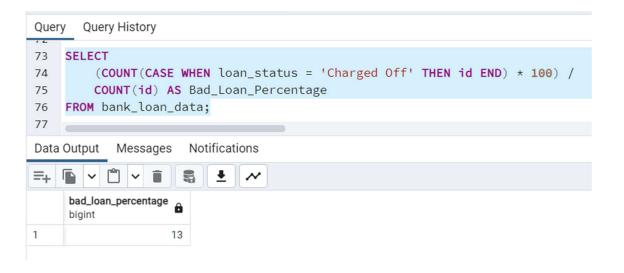
#### **BAD LOAN ISSUED**

#### **Bad Loan Percentage**

#### **SELECT**

```
(COUNT(CASE WHEN loan_status = 'Charged Off' THEN id END) * 100) /
COUNT(id) AS Bad_Loan_Percentage
```

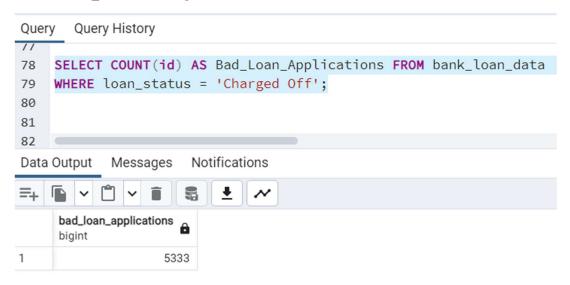
FROM bank\_loan\_data;



### **Bad Loan Applications**

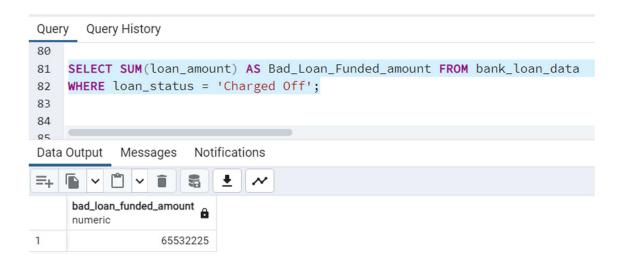
SELECT COUNT(id) AS Bad\_Loan\_Applications FROM bank\_loan\_data

WHERE loan\_status = 'Charged Off';



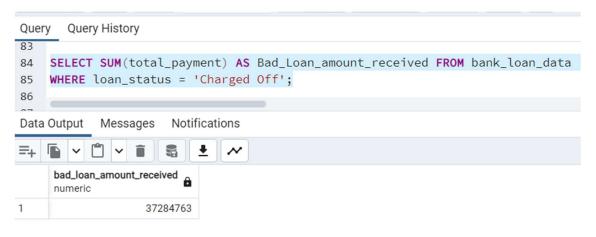
#### **Bad Loan Funded Amount**

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**

```
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,

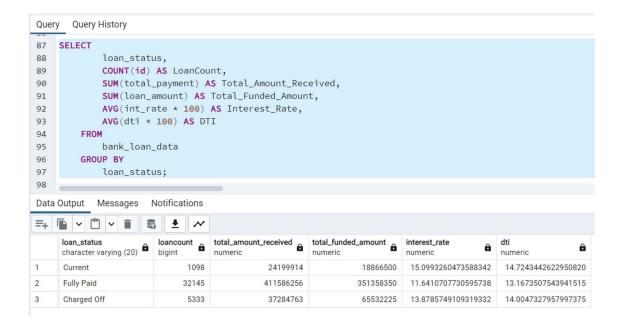
AVG(dti * 100) AS DTI

FROM

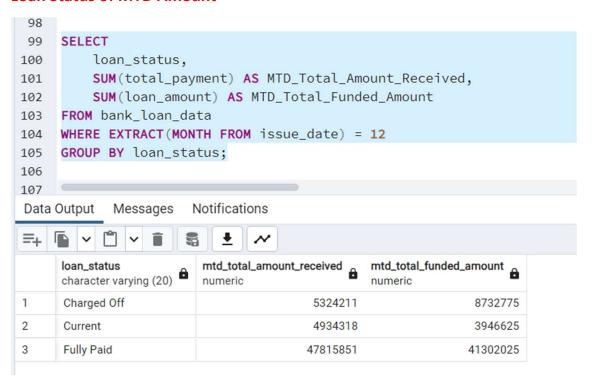
bank_loan_data

GROUP BY

loan_status;
```

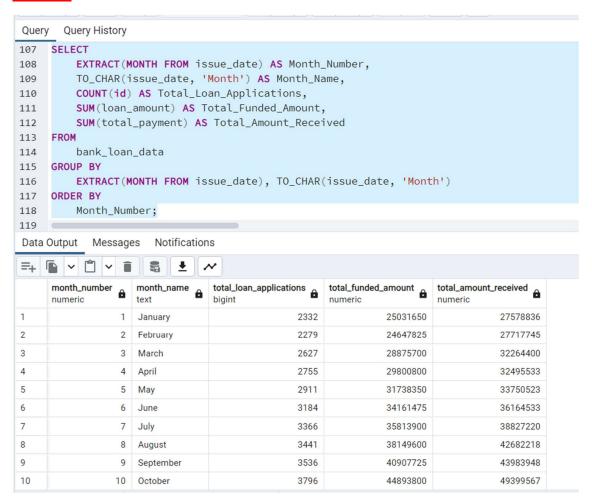


#### **Loan Status of MTD Amount**



## **BANK LOAN REPORT | OVERVIEW**

### **MONTH**

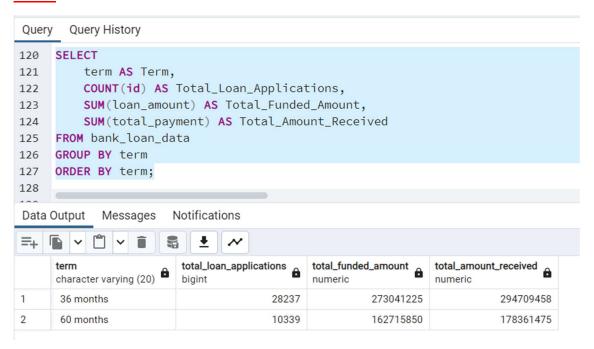


## **STATE**

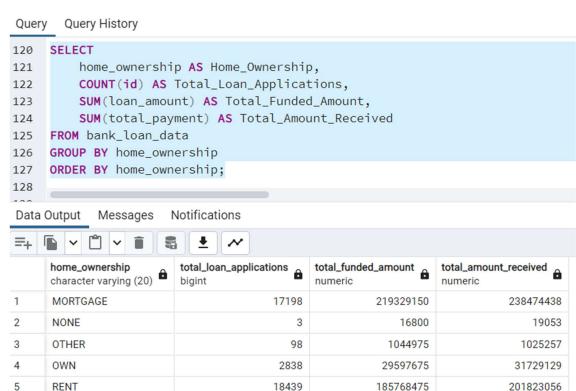
IA

#### **Query History** Query 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; Data Output Messages Notifications <u>\*</u> =+ total\_funded\_amount total\_loan\_applications total\_amount\_received state character varying (2) bigint numeric numeric AK AL AR AZ CA CO CT DC DE FL GA HI

#### **TERM**



## **HOME\_OWNERSHIP**



# **PURPOSE**

### Query Query History

```
120
     SELECT
121
         purpose AS PURPOSE,
         COUNT(id) AS Total_Loan_Applications,
122
         SUM(loan_amount) AS Total_Funded_Amount,
123
         SUM(total_payment) AS Total_Amount_Received
124
125
     FROM bank_loan_data
     GROUP BY purpose
126
127
     ORDER BY purpose;
128
```

Data Output Messages Notifications

	purpose character varying (50)	total_loan_applications bigint	total_funded_amount numeric	total_amount_received numeric
1	car	1497	10223575	11324914
2	credit card	4998	58885175	65214084
3	Debt consolidation	18214	232459675	253801871
4	educational	315	2161650	2248380
5	home improvement	2876	33350775	36380930
6	house	366	4824925	5185538
7	major purchase	2110	17251600	18676927
8	medical	667	5533225	5851372
9	moving	559	3748125	3999899
10	other	3824	31155750	33289676
11	renewable_energy	94	845750	898931
12	small business	1776	24123100	23814817
13	vacation	352	1967950	2116738