# **BANK LOAN REPORT QUERY DOCUMENT**

## A. BANK LOAN REPORT | SUMMARY

### KPI's:

### **Total Loan Applications**

SELECT COUNT(id) AS Total\_Loan\_Applications FROM loan;

Total_Loan_Applications				
•	38576			

### MTD Loan Application (Month to Date Loan Application)

SELECT COUNT(id) AS MTD\_Total\_Loan\_Applications FROM loan

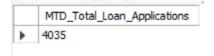
WHERE MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021;



### PMTD Loan Application (Previous Month to Date Loan Application)

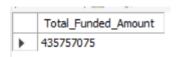
SELECT COUNT(id) AS PMTD\_Total\_Loan\_Applications FROM loan

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



#### **Total Funded Amount**

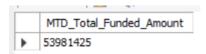
SELECT SUM(loan amount) AS Total Funded Amount FROM loan;



## **MTD Total Funded Amount**

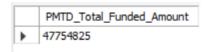
SELECT SUM(loan\_amount) AS MTD\_Total\_Funded\_Amount FROM loan

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



### **PMTD Total Funded Amount**

SELECT SUM(loan\_amount) AS PMTD\_Total\_Funded\_Amount FROM loan WHERE MONTH(issue\_date) = 11 AND YEAR(issue\_date) = 2021;



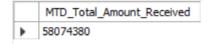
## **Total Amount Received**

SELECT SUM(total\_payment) AS Total\_Amount\_Received FROM loan;



### **MTD Total Amount Received**

SELECT SUM(total\_payment) AS MTD\_Total\_Amount\_Received FROM loan WHERE MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021;



#### **PMTD Total Amount Received**

SELECT SUM(total\_payment) AS PMTD\_Total\_Amount\_Received FROM loan WHERE MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021;



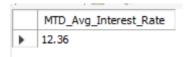
### **Average Interest Rate**

SELECT ROUND(AVG(int\_rate)\*100,2) AS Avg\_Interest\_Rate FROM loan;



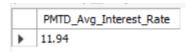
### **MTD Average Interest Rate**

SELECT ROUND(AVG(int\_rate)\*100,2) AS MTD\_Avg\_Interest\_Rate FROM loan WHERE MONTH(issue\_date) = 12 AND YEAR(issue\_date) = 2021;



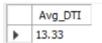
### **PMTD Average Interest Rate**

SELECT ROUND(AVG(int\_rate)\*100,2) AS PMTD\_Avg\_Interest\_Rate FROM loan WHERE MONTH(issue\_date) = 11 AND YEAR(issue\_date) = 2021;



### **Avg DTI (Average Debt to Income Percentage)**

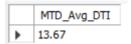
SELECT ROUND(AVG(dti)\*100,2) AS Avg\_DTI FROM loan;



### **MTD Avg DTI**

SELECT ROUND(AVG(dti)\*100,2) AS MTD\_Avg\_DTI FROM loan

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



### **PMTD Avg DTI**

SELECT ROUND(AVG(dti)\*100,2) AS PMTD\_Avg\_DTI FROM loan

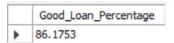
WHERE MONTH(issue\_date) = 11 AND YEAR(issue\_date) = 2021;



## **GOOD LOAN ISSUED**

### **Good Loan Percentage**

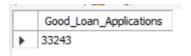
SELECT (COUNT(CASE WHEN loan\_status = "Fully Paid" OR loan\_status = "Current" THEN ID END)\*100) / COUNT(id) AS Good\_Loan\_Percentage FROM loan;



## **Good loan Applications**

SELECT COUNT(id) AS Good\_Loan\_Applications FROM loan

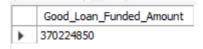
WHERE loan\_status = "Fully Paid" OR loan\_status = "Current";



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

SELECT SUM(loan\_amount) AS Good\_Loan\_Funded\_Amount FROM loan

WHERE loan\_status = "Fully Paid" OR loan\_status = "Current";



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

SELECT SUM(total\_payment) AS Good\_Loan\_Received\_Amount FROM loan

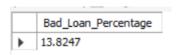
WHERE loan\_status = "Fully Paid" OR loan\_status = "Current";



## **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 loan;



**Bad loan Applications** 

SELECT COUNT(id) AS Bad\_Loan\_Applications FROM loan

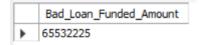
WHERE loan\_status = "Charged off";



**Bad Loan Funded Amount** 

SELECT SUM(loan\_amount) AS Bad\_Loan\_Funded\_Amount FROM loan

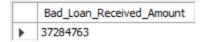
WHERE loan\_status = "Charged off";



**Bad Loan Received Amount** 

SELECT SUM(total\_payment) AS Bad\_Loan\_Received\_Amount FROM loan

WHERE loan\_status = "Charged off";



## **LOAN STATUS**

SELECT loan\_status,

COUNT(id) AS Total\_Applocations\_Count,

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

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

ROUND(AVG(int\_rate \* 100),2) AS Average\_Interest\_rate,

ROUND(AVG(dti \* 100),2) AS Average\_DTI

FROM loan

# GROUP BY loan\_status;

	loan_status	Total_Applocations_Count	Total_amount_Received	Total_Amount_Funded	Average_Interest_rate	Average_DTI
•	Charged Off	5333	37284763	65532225	13.88	14
	Fully Paid	32145	411586256	351358350	11.64	13.17
	Current	1098	24199914	18866500	15.1	14.72

# **B. BANK LOAN REPORT | OVERVIEW**

# **MONTH**

## **SELECT**

MONTH(issue\_date) AS Month\_Number,

MONTHNAME(issue\_date) AS Month\_Name,

COUNT(id) AS Total\_Loan\_Applications,

SUM(loan\_amount) AS Total\_Loan\_Funded,

SUM(total\_payment) AS Total\_Received\_Amount

### FROM loan

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

ORDER BY MONTH(issue\_date), MONTHNAME(issue\_date);

	Month_Number	Month_Name	Total_Loan_Applications	Total_Loan_Funded	Total_Received_Amount
•	1	January	2332	25031650	27578836
	2	February	2279	24647825	27717745
	3	March	2627	28875700	32264400
	4	April	2755	29800800	32495533
	5	May	2911	31738350	33750523
	6	June	3184	34161475	36164533
	7	July	3366	35813900	38827220
	8	August	3441	38149600	42682218
	9	September	3536	40907725	43983948
	10	October	3796	44893800	49399567
	11	November	4035	47754825	50132030
	12	December	4314	53981425	58074380

# **STATE**

## **SELECT**

address\_state,

COUNT(id) AS Total\_Loan\_Applications,

SUM(loan\_amount) AS Total\_Loan\_Funded,

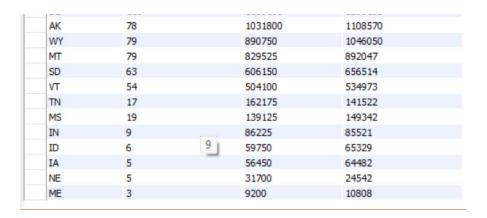
SUM(total\_payment) AS Total\_Received\_Amount

## FROM loan

GROUP BY address\_state

# ORDER BY SUM(loan\_amount) DESC;

	address_state	Total_Loan_Applications	Total_Loan_Funded	Total_Received_Amount
•	CA	6894	78484125	83901234
	NY	3701	42077050	46108181
	TX	2664	31236650	34392715
	FL	2773	30046125	31601905
	NJ	1822	21657475	23425159
	IL	1486	17124225	18875941
	VA	1375	15982650	17711 <del>44</del> 3
	PA	1482	15826525	17462908
	GA	1355	15480325	16728040
	MA	1310	15051000	16676279
	OH	1188	12991375	14330148
	MD	1027	11911400	12985170
	AZ	833	9206000	10041986
	CO	770	8976000	9845810
	WA	805	8855525	9531739
	NC	759	8787575	9534813
	CT	730	8435575	9357612
	MI	685	7829900	8543660
	MO	660	7151175	7692732
	MN	592	6302600	6750746
	NV	482	5307375	5451443
	SC	464	5080475	5462458
	WI	446	5070450	5485161
	AL	432	4949225	5492272
	OR	436	4720150	4966903
	LA	426 436	4498900	5001160
	KY	320	3504100	3792530
	OK	293	3365725	3712649
	KS	260	2872325	3247394
	UT	252	2849225	2952412
	DC	214	2652350	2921854
	AR	236	2529700	2777875
	NH	161	1917900	2101386
	NM	183	1916775	2084485
	RI	196	1883025	2001774
	HI	170	1850525	2080 184
	WV	167	1830525	1991936
	DE	110	1138100	1269136



# **TERM**

# **SELECT**

term,

COUNT(id) AS Total\_Loan\_Applications,

SUM(loan\_amount) AS Total\_Loan\_Funded,

SUM(total\_payment) AS Total\_Received\_Amount

### FROM loan

## **GROUP BY term**

# ORDER BY term;

	term	Total_Loan_Applications	Total_Loan_Funded	Total_Received_Amount
•	36 months	28237	273041225	294709458
	60 months	10339	162715850	178361475

## **EMPLOYEE LENGTH**

### SELECT

emp\_length,

COUNT(id) AS Total\_Loan\_Applications,

SUM(loan\_amount) AS Total\_Loan\_Funded,

SUM(total\_payment) AS Total\_Received\_Amount

FROM loan

GROUP BY emp\_length

ORDER BY emp\_length;

	emp_length	Total_Loan_Applications	Total_Loan_Funded	Total_Received_Amount
١	< 1 year	4575	44210625	47545011
	1 year	3229	32883125	35498348
	10+ years	8870	116115950	125871616
	2 years	4382	44967975	49206961
	3 years	4088	43937850	47551832
	4 years	3428	37600375	40964850
	5 years	3273	36973625	40397571
	6 years	2228	25612650	27908658
	7 years	1772	20811725	22584136
	8 years	1476	17558950	19025777
	9 years	1255	15084225	16516173

## **PURPOSE**

### **SELECT**

purpose,

COUNT(id) AS Total\_Loan\_Applications,

SUM(loan\_amount) AS Total\_Loan\_Funded,

SUM(total\_payment) AS Total\_Received\_Amount

FROM loan

**GROUP BY purpose** 

ORDER BY COUNT(id) DESC;



## **HOME OWNERSHIP**

### **SELECT**

home\_ownership,

COUNT(id) AS Total\_Loan\_Applications,

SUM(loan\_amount) AS Total\_Loan\_Funded,

SUM(total\_payment) AS Total\_Received\_Amount

### FROM loan

GROUP BY home\_ownership

## ORDER BY COUNT(id) DESC;

	home_ownership	Total_Loan_Applications	Total_Loan_Funded	Total_Received_Amount	
•	RENT	18439	185768475	201823056	
	MORTGAGE	17198	219329150	238474438	
	OWN	2838	29597675	31729129	
	OTHER	98	1044975	1025257	
	NONE	3	16800	19053	