Bank Loan Report Query Document

1. Bank Loan Report

KPI's:

Total Loan Applications

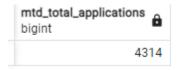
SELECT COUNT(id) AS Total_Applications FROM loans



MTD Loan Applications

SELECT COUNT(id) AS MTD_Total_Applications FROM loans

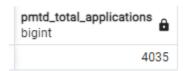
WHERE EXTRACT(MONTH FROM issue_date) = 12 AND EXTRACT(YEAR FROM issue_date) = 2021;



PMTD Loan Applications

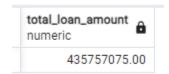
SELECT COUNT(id) AS PMTD_Total_Applications FROM loans

WHERE EXTRACT(MONTH FROM issue_date) = 11 AND EXTRACT(YEAR FROM issue_date) = 2021;



Total Loan Amount

SELECT SUM(loan amount) AS Total Loan Amount FROM loans



MTD Loan Amount

SELECT SUM(loan_amount) AS Total_Loan_Amount FROM loans

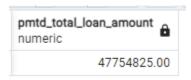
WHERE EXTRACT(MONTH FROM issue_date) = 12 AND EXTRACT(YEAR FROM issue_date) = 2021;



PMTD Loan Amount

SELECT SUM(loan amount) AS Total Loan Amount FROM loans

WHERE EXTRACT(MONTH FROM issue_date) = 11 AND EXTRACT(YEAR FROM issue_date) = 2021;



Total Amount Received

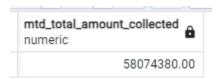
SELECT SUM(total_payment) AS Total_Amount_Collected FROM loans



MTD Total Amount Received

SELECT SUM(total_payment) AS MTD_Total_Amount_Collected FROM loans

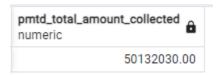
WHERE EXTRACT(MONTH FROM issue_date) = 12 AND EXTRACT(YEAR FROM issue_date) = 2021;



PMTD Total Amount Received

SELECT SUM(total_payment) AS PMTD_Total_Amount_Collected FROM loans

WHERE EXTRACT(MONTH FROM issue_date) = 12 AND EXTRACT(YEAR FROM issue_date) = 2021;



Average Interest Rate

SELECT AVG(int_rate)*100 AS Avg_Int_Rate FROM loans



DTM Average Interest Rate

SELECT AVG(int rate)*100 AS DTM Avg Int Rate FROM loans

WHERE EXTRACT(MONTH FROM issue_date) = 12;



PDTM Average Interest Rate

SELECT AVG(int_rate)*100 AS PDTM_Avg_Int_Rate FROM loans
WHERE EXTRACT(MONTH FROM issue_date) = 12;



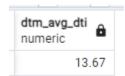
Average DTI

SELECT ROUND(AVG(dti),2)*100 AS Avg_DTI FROM loans



DTM Average DTI

SELECT ROUND(AVG(dti),2)*100 AS DTM_Avg_DTI FROM loans
WHERE EXTRACT(MONTH FROM issue_date) = 12;



PDTM Average DTI

SELECT ROUND(AVG(dti),2)*100 AS PDTM_Avg_DTI FROM loans
WHERE EXTRACT(MONTH FROM 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) /

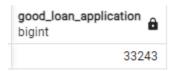
COUNT(id) AS Good_Loan_Percentage

FROM loans



Good Loan Applications

SELECT COUNT(id) AS Good_Loan_Applications FROM loans WHERE loan status = 'Fully Paid' OR loan status = 'Current';



Good Loan Funded Amount

SELECT SUM(loan_amount) AS Good_Loan_Funded_amount FROM loans WHERE loan status = 'Fully Paid' OR loan status = 'Current';



Good Loan Amount Received

SELECT SUM(total_payment) AS Good_Loan_amount_received FROM loans WHERE loan status = 'Fully Paid' OR loan status = 'Current';



BAD LOAN ISSUED

Bad Loan Percentage

SELECT

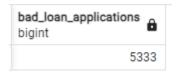
(COUNT(CASE WHEN loan_status = 'Charged Off' THEN id END) * 100.0) / COUNT(id) AS Bad_Loan_Percentage

FROM loans;



Bad Loan Applications

SELECT COUNT(id) AS Bad_Loan_Applications FROM loans WHERE loan_status = "Charged Off";



Bad Loan Funded Amount

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



Bad Loan Amount Received

SELECT SUM(total_payment) AS Bad_Loan_amount_received FROM loans WHERE loan status = 'Charged Off';



LOAN STATUS

SELECT

loan_status,

COUNT(id) AS Total_loan_application,

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

loans

GROUP BY

Loan_status;

loan_status character varying (50)	total_loan_application bigint	total_amount_received numeric	total_funded_amount numeric	interest_rate numeric	dti numeric
Current	1098	24199914.00	18866500.00	15.0993260473588342	14.7243442622950820
Fully Paid	32145	411586256.00	351358350.00	11.6410707730595738	13.1673507543941515
Charged Off	5333	37284763.00	65532225.00	13.8785749109319332	14.0047327957997375

SELECT

loan status,

SUM(total_payment) AS MTD_Total_Amount_Received,

SUM(loan_amount) AS MTD_Total_Funded_Amount

FROM loans

WHERE MONTH(issue date) = 12

GROUP BY loan_status;

loan_status character varying (50)	mtd_total_amount_received numeric	mtd_total_funded_amount numeric
Charged Off	5324211.00	8732775.00
Current	4934318.00	3946625.00
Fully Paid	47815851.00	41302025.00

BANK LOAN REPORT | OVERVIEW

MONTH

```
SELECT
```

EXTRACT(MONTH FROM issue_date) AS Month_Number,

TO_CHAR(issue_date, 'Month') AS Month_Name,

COUNT(id) AS Total_Loan_Applications,

SUM(loan_amount) AS Total_Funded_Amount,

SUM(total_payment) AS Total_Amount_Received

FROM loans

GROUP BY EXTRACT(MONTH FROM issue_date), TO_CHAR(issue_date, 'Month')

ORDER BY Month_Number;

month_number numeric	â	month_name text	total_loan_applications bigint	total_funded_amount numeric	total_amount_received numeric
	1	January	2332	25031650.00	27578836.00
	2	February	2279	24647825.00	27717745.00
	3	March	2627	28875700.00	32264400.00
	4	April	2755	29800800.00	32495533.00
	5	May	2911	31738350.00	33750523.00
	6	June	3184	34161475.00	36164533.00
	7	July	3366	35813900.00	38827220.00
	8	August	3441	38149600.00	42682218.00
	9	September	3536	40907725.00	43983948.00
	10	October	3796	44893800.00	49399567.00
	11	November	4035	47754825.00	50132030.00
	12	December	4314	53981425.00	58074380.00

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 loans

GROUP BY address_state ORDER BY address_state;

	state character varying (2)	total_loan_applications bigint	total_funded_amount numeric	total_amount_received numeric
1	AK	78	1031800.00	1108570.00
2	AL	432	4949225.00	5492272.00
3	AR	236	2529700.00	2777875.00
4	AZ	833	9206000.00	10041986.00
5	CA	6894	78484125.00	83901234.00
6	CO	770	8976000.00	9845810.00
7	СТ	730	8435575.00	9357612.00
8	DC	214	2652350.00	2921854.00
9	DE	110	1138100.00	1269136.00
10	FL	2773	30046125.00	31601905.00
11	GA	1355	15480325.00	16728040.00
12	HI	170	1850525.00	2080184.00
13	IA	5	56450.00	64482.00
14	ID	6	59750.00	65329.00
15	IL	1486	17124225.00	18875941.00

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 loans

GROUP BY term

ORDER BY term;

	term character varying (20)	total_loan_applications bigint	total_funded_amount numeric	total_amount_received numeric
1	36 months	28237	273041225.00	294709458.00
2	60 months	10339	162715850.00	178361475.00

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 loans

GROUP BY emp_length

ORDER BY emp_length;

	employee_length character varying (20)	total_loan_applications bigint	total_funded_amount numeric	total_amount_received numeric
1	< 1 year	4575	44210625.00	47545011.00
2	1 year	3229	32883125.00	35498348.00
3	10+ years	8870	116115950.00	125871616.00
4	2 years	4382	44967975.00	49206961.00
5	3 years	4088	43937850.00	47551832.00
6	4 years	3428	37600375.00	40964850.00
7	5 years	3273	36973625.00	40397571.00
8	6 years	2228	25612650.00	27908658.00
9	7 years	1772	20811725.00	22584136.00
10	8 years	1476	17558950.00	19025777.00
11	9 years	1255	15084225.00	16516173.00

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 loans

GROUP BY purpose

ORDER BY purpose;

	purpose character varying (50) €	total_loan_applications bigint	total_funded_amount numeric	total_amount_received numeric
1	car	1497	10223575.00	11324914.00
2	credit card	4998	58885175.00	65214084.00
3	Debt consolidation	18214	232459675.00	253801871.00
4	educational	315	2161650.00	2248380.00
5	home improvement	2876	33350775.00	36380930.00
6	house	366	4824925.00	5185538.00
7	major purchase	2110	17251600.00	18676927.00
8	medical	667	5533225.00	5851372.00
9	moving	559	3748125.00	3999899.00
10	other	3824	31155750.00	33289676.00
11	renewable_energy	94	845750.00	898931.00
12	small business	1776	24123100.00	23814817.00
13	vacation	352	1967950.00	2116738.00
14	wedding	928	9225800.00	10266856.00

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 loans
GROUP BY home_ownership
ORDER BY home_ownership;

	home_ownership character varying (20)	total_loan_applications bigint	total_funded_amount numeric	total_amount_received numeric
1	MORTGAGE	17198	219329150.00	238474438.00
2	NONE	3	16800.00	19053.00
3	OTHER	98	1044975.00	1025257.00
4	OWN	2838	29597675.00	31729129.00
5	RENT	18439	185768475.00	201823056.00

Note: We have applied multiple Filters on all the dashboards. You can check the results for the filters as well by modifying the query and comparing the results.

For e.g

See the results when we hit the Grade A in the filters for dashboards.

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 loans
WHERE grade = 'A'
GROUP BY purpose
ORDER BY purpose;
```