SQL CODES AND OUTPUT

KPI's

Total loan Applications

SELECT COUNT(id) AS Total_Loan_Applications FROM financial_loan;

	total_loan_applications 🔒 bigint
1	38576

MTD Total loan application

SELECT COUNT(id) AS MTD_Total_Loan_Applications FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date) = 12 ;

	mtd_total_loan_applications 🔒 bigint
1	4314

PMTD Total loan application

SELECT COUNT(id) AS PMTD_Total_Loan_Applications FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date) = 11 ;

	pmtd_total_loan_applications 🔒 bigint
1	4035

MoM Growth Total loan application

select

(a.MTD_Total_Loan_Applications - b.PMTD_Total_Loan_Applications)*100.0/b.PMTD_Total_Loan_Applications AS MoM

FROM

(SELECT COUNT(id) AS MTD_Total_Loan_Applications FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date) = 12) AS a

cross join

(SELECT COUNT(id) AS PMTD_Total_Loan_Applications FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date) = 11) AS b

mom 🔒 numeric
1	6.9144981412639405

Total Funded Amount

SELECT SUM(loan_amount)AS Total_Funded_Amount FROM financial_loan;

total_funded_amount 🔒 numeric
1	435757075

MTD Total Funded Amount

SELECT SUM(loan_amount)AS MTD_Total_Funded_Amount FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=12;

mtd_total_funded_amount 🔒 numeric
1	53981425

PMTD Total Funded Amount

SELECT SUM(loan_amount)AS PMTD_Total_Funded_Amount FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=11;

	pmtd_total_funded_amount 🔒 numeric
1	47754825

MoM Growth Total Funded Amount

SELECT

(a.MTD_Total_Funded_Amount - b.PMTD_Total_Funded_Amount)*100/b.PMTD_Total_Funded_Amount AS MoM

FROM

(SELECT SUM(loan_amount)AS MTD_Total_Funded_Amount FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=12) AS a

CROSS JOIN

(SELECT SUM(loan_amount)AS PMTD_Total_Funded_Amount FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=11) AS b

	mom 🔒 numeric
1	13.0386824786814735

Total Amount Received

SELECT SUM(total_payment) AS Total_Received_Amount FROM financial_loan;

	total_recieved_amount 🔒 numeric
1	473070933

Total MTD Amount Received

SELECT SUM(total_payment) AS MTD_Total_Received_Amount FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=12;

	mtd_total_received_amount 🔒 numeric
1	58074380

Total PMTD Amount Received

SELECT SUM(total_payment) AS PMTD_Total_Received_Amount FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=11;

	pmtd_total_received_amount numeric 🔒
1	50132030

Average Interest Rate

SELECT ROUND(AVG(int_rate)*100,2)AS Avg_interest_rate

FROM financial_loan;

	avg_interest_rate numeric 🔒
1	12.05

MTD Average Interest Rate

SELECT ROUND(AVG(int_rate)*100,2)AS MTD_Avg_interest_rate

FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=12;

	mtd_avg_interest_rate numeric 🔒
1	12.36

PMTD Average Interest Rate

SELECT ROUND(AVG(int_rate)*100,2)AS PMTD_Avg_interest_rate

FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=11;

	pmtd_avg_interest_rate numeric 🔒
1	11.94

Average DTI

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

FROM financial_loan

	avg_dti numeric
1	13.33

MTD Average DTI

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

FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=12;

	avg_mtd_dti numeric
1	13.67

PMTD Average DTI

SELECT ROUND(AVG(dti)*100,2)AS Avg_PDTI

FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=11;

	avg_pmdt_dti numeric
1	13.30

GOOD LOAN ISSUED

Good loan percent

SELECT ROUND(SUM(CASE WHEN loan_status='Fully Paid' OR loan_status='Current' THEN 1 END)*100.0/COUNT(*),2) AS Good_Loan_Percent

 FROM Financial_loan;

	good_loan_percent numeric
1	86.18

Good Loan Applications

SELECT COUNT(*) AS Good_Loan_Application

FROM financial_loan

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

good_loan_application bigint 🔒
1	33243

Good Loan Funded Amount

SELECT SUM(loan_amount)AS Good_loan_Funded_Amount

FROM financial_loan

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

good_loan_funded_amount numeric 🔒
1	370224850

Good Loan Amount Received

SELECT SUM(total_payment)AS Good_loan_Amount_Received

FROM financial_loan

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

good_loan_amount_received numeric 🔒
1	435786170

BAD LOAN ISSUED

Bad Loan Percent

SELECT SUM(CASE WHEN loan_status = 'Charged Off' THEN 1 END)*100.0/COUNT(*) AS Bad_Loan_Percent FROM Financial_loan;

bad_loan_percent numeric 🔒
1	13.82

Bad Loan Application

SELECT COUNT(*) AS Bad_Loan_Application

FROM financial_loan WHERE loan_status = 'Charged Off';

	bad_loan_application bigint 🔒
1	5333

Bad Loan Funded Amount

SELECT SUM(loan_amount)AS Bad_loan_Funded_Amount

FROM financial_loan WHERE loan_status = 'Charged Off';

	bad_loan_funded_amount numeric 🔒
1	65532225

Bad Loan Amount Received

SELECT SUM(total_payment)AS Bad_loan_Amount_Received

FROM financial_loan WHERE loan_status ='Charged Off';

	bad_loan_amount_received numeric 🔒
1	37284763

LOAN STATUS

SELECT loan_status,

        COUNT(id)AS loan_Count,

        SUM(loan_amount)AS Total_Amount_Funded,

        SUM(total_payment)AS Total_Amount_Received,

        ROUND(AVG(int_rate)*100.0,2)AS Interest_Rate,

        ROUND(AVG(dti)*100.0,2)AS DTI

FROM financial_loan

GROUP BY loan_status;

	loan_status character varying (50)	loan_count bigint	total_amount_funded numeric	total_amount_received numeric	interest_rate numeric	dti numeric
1	Current	1098	18866500	24199914	15.10	14.72
2	Fully Paid	32145	351358350	411586256	11.64	13.17
3	Charged Off	5333	65532225	37284763	13.88	14.00

SELECT loan_status,

        SUM(loan_amount)AS MTD_Total_Amount_Funded,

        SUM(total_payment)AS MTD_Total_Amount_Received

FROM financial_loan

WHERE EXTRACT (MONTH FROM issue_date)=12

GROUP BY loan_status;

	loan_status character varying (50)	mtd_total_amount_funded numeric	mtd_total_amount_received numeric
1	Charged Off	8732775	5324211
2	Current	3946625	4934318
3	Fully Paid	41302025	47815851

BANK LOAN REPORT | OVERVIEW

MONTH

SELECT

      EXTRACT(MONTH FROM issue_date) AS Month,

      TO_CHAR(issue_date,'month'),

      COUNT(id) AS Total_Loan_Application,

      SUM(loan_amount)AS Total_Amount_Funded,

      SUM(total_payment)AS Total_Amount_Received

FROM financial_loan

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

ORDER BY EXTRACT(MONTH FROM issue_date);

	month_number numeric	month text	total_loan_application bigint	total_amount_funded numeric	total_amount_received numeric
1	1	january	2332	25031650	27578836
2	2	february	2279	24647825	27717745
3	3	march	2627	28875700	32264400
4	4	april	2755	29800800	32495533
5	5	may	2911	31738350	33750523
6	6	june	3184	34161475	36164533
7	7	july	3366	35813900	38827220
8	8	august	3441	38149600	42682218
9	9	septem...	3536	40907725	43983948
10	10	october	3796	44893800	49399567
11	11	novemb...	4035	47754825	50132030
12	12	decemb...	4314	53981425	58074380

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SELECT

    address_state AS State,

    COUNT(id) AS Total_Loan_Application,

    SUM(loan_amount)AS Total_Amount_Funded,

    SUM(total_payment)AS Total_Amount_Received

FROM financial_loan

GROUP BY address_state

ORDER BY address_state;
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	state character varying (50) 🔒	total_loan_application 🔒 bigint	total_amount_funded 🔒 numeric	total_amount_received 🔒 numeric
1	AK	78	1031800	1108570
2	AL	432	4949225	5492272
3	AR	236	2529700	2777875
4	AZ	833	9206000	10041986
5	CA	6894	78484125	83901234
6	CO	770	8976000	9845810
7	CT	730	8435575	9357612
8	DC	214	2652350	2921854
9	DE	110	1138100	1269136
10	FL	2773	30046125	31601905
11	GA	1355	15480325	16728040
12	HI	170	1850525	2080184
13	IA	5	56450	64482
14	ID	6	59750	65329
15	IL	1486	17124225	18875941
16	IN	9	86225	85521
17	KS	260	2872325	3247394
18	KY	320	3504100	3792530
19	LA	426	4498900	5001160
20	MA	1310	15051000	16676279
21	MD	1027	11911400	12985170
22	ME	3	9200	10808
23	MI	685	7829900	8543660
24	MN	592	6302600	6750746
25	MO	660	7151175	7692732

26	MS	19	139125	149342
27	MT	79	829525	892047
28	NC	759	8787575	9534813
29	NE	5	31700	24542
30	NH	161	1917900	2101386
31	NJ	1822	21657475	23425159
32	NM	183	1916775	2084485
33	NV	482	5307375	5451443
34	NY	3701	42077050	46108181
35	OH	1188	12991375	14330148
36	OK	293	3365725	3712649
37	OR	436	4720150	4966903
38	PA	1482	15826525	17462908
39	RI	196	1883025	2001774
40	SC	464	5080475	5462458
41	SD	63	606150	656514
42	TN	17	162175	141522
43	TX	2664	31236650	34392715
44	UT	252	2849225	2952412
45	VA	1375	15982650	17711443
46	VT	54	504100	534973
47	WA	805	8855525	9531739
48	WI	446	5070450	5485161
49	WV	167	1830525	1991936
50	WY	79	890750	1046050

SELECT

    term AS Term,

    COUNT(id) AS Total_Loan_Application,

    SUM(loan_amount)AS Total_Amount_Funded,

    SUM(total_payment)AS Total_Amount_Received

FROM financial_loan

GROUP BY term;

	term character varying (20)	total_loan_application bigint	total_amount_funded numeric	total_amount_received numeric
1	36 months	28237	273041225	294709458
2	60 months	10339	162715850	178361475

EMPLOYEE LENGTH

SELECT

      emp_length,

      COUNT(id) AS Total_Loan_Application,

      SUM(loan_amount)AS Total_Amount_Funded,

      SUM(total_payment)AS Total_Amount_Received

FROM financial_loan

GROUP BY emp_length

ORDER BY emp_length;

	emp_length character varying (50) 🔒	total_loan_application 🔒 bigint	total_amount_funded 🔒 numeric	total_amount_received 🔒 numeric
1	< 1 year	4575	44210625	47545011
2	1 year	3229	32883125	35498348
3	10+ years	8870	116115950	125871616
4	2 years	4382	44967975	49206961
5	3 years	4088	43937850	47551832
6	4 years	3428	37600375	40964850
7	5 years	3273	36973625	40397571
8	6 years	2228	25612650	27908658
9	7 years	1772	20811725	22584136
10	8 years	1476	17558950	19025777
11	9 years	1255	15084225	16516173

PURPOSE

SELECT

      purpose,

      COUNT(id) AS Total_Loan_Application,

      SUM(loan_amount)AS Total_Amount_Funded,

      SUM(total_payment)AS Total_Amount_Received

FROM financial_loan

GROUP BY purpose

ORDER BY purpose;

	purpose character varying (100)	total_loan_application bigint	total_amount_funded 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
14	wedding	928	9225800	10266856

HOME OWNERSHIP

SELECT

      home_ownership,

      COUNT(id) AS Total_Loan_Application,

      SUM(loan_amount)AS Total_Amount_Funded,

      SUM(total_payment)AS Total_Amount_Received

FROM financial_loan

GROUP BY home_ownership

ORDER BY home_ownership;

	home_ownership character varying (20)	total_loan_application bigint	total_amount_funded numeric	total_amount_received numeric
1	MORTGAGE	17198	219329150	238474438
2	NONE	3	16800	19053
3	OTHER	98	1044975	1025257
4	OWN	2838	29597675	31729129
5	RENT	18439	185768475	201823056