

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;

	MTD_Total_Loan_Applications
▶	4314

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;

	MTD_Total_Loan_Applications
▶	4035

Total Funded Amount

SELECT SUM(loan_amount) AS Total_Funded_Amount FROM loan;

	Total_Funded_Amount
▶	435757075

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;

	MTD_Total_Funded_Amount
▶	53981425

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;
```

	PMTD_Total_Funded_Amount
▶	47754825

Total Amount Received

```
SELECT SUM(total_payment) AS Total_Amount_Received FROM loan;
```

	Total_Amount_Received
▶	473070933

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;
```

	MTD_Total_Amount_Received
▶	58074380

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;
```

	PMTD_Total_Amount_Received
▶	50132030

Average Interest Rate

```
SELECT ROUND(AVG(int_rate)*100,2) AS Avg_Interest_Rate FROM loan;
```

	Avg_Interest_Rate
▶	12.05

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;
```

	MTD_Avg_Interest_Rate
▶	12.36

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;
```

	PMTD_Avg_Interest_Rate
▶	11.94

Avg DTI (Average Debt to Income Percentage)

```
SELECT ROUND(AVG(dti)*100,2) AS Avg_DTI FROM loan;
```

	Avg_DTI
▶	13.33

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;
```

	MTD_Avg_DTI
▶	13.67

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;
```

	PMTD_Avg_DTI
▶	13.3

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_Percentage
▶	86.1753

Good loan Applications

```
SELECT COUNT(id) AS Good_Loan_Applications FROM loan  
WHERE loan_status = "Fully Paid" OR loan_status = "Current";
```

	Good_Loan_Applications
▶	33243

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_Funded_Amount
▶	370224850

Good Loan Received Amount

```
SELECT SUM(total_payment) AS Good_Loan_Received_Amount FROM loan  
WHERE loan_status = "Fully Paid" OR loan_status = "Current";
```

	Good_Loan_Received_Amount
▶	435786170

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_Percentage
▶	13.8247

Bad loan Applications

```
SELECT COUNT(id) AS Bad_Loan_Applications FROM loan  
WHERE loan_status = "Charged off";
```

	Bad_Loan_Applications
▶	5333

Bad Loan Funded Amount

```
SELECT SUM(loan_amount) AS Bad_Loan_Funded_Amount FROM loan  
WHERE loan_status = "Charged off";
```

	Bad_Loan_Funded_Amount
▶	65532225

Bad Loan Received Amount

```
SELECT SUM(total_payment) AS Bad_Loan_Received_Amount FROM loan  
WHERE loan_status = "Charged off";
```

	Bad_Loan_Received_Amount
▶	37284763

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	17711443
	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	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	2080184
	WV	167	1830525	1991936
	DE	110	1138100	1269136

AK	78	1031800	1108570
WY	79	890750	1046050
MT	79	829525	892047
SD	63	606150	656514
VT	54	504100	534973
TN	17	162175	141522
MS	19	139125	149342
IN	9	86225	85521
ID	6	59750	65329
IA	5	56450	64482
NE	5	31700	24542
ME	3	9200	10808

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
▶	< 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;

	purpose	Total_Loan_Applications	Total_Loan_Funded	Total_Received_Amount
▶	Debt consolidation	18214	232459675	253801871
	credit card	4998	58885175	65214084
	other	3824	31155750	33289676
	home improvement	2876	33350775	36380930
	major purchase	2110	17251600	18676927
	small business	1776	24123100	23814817
	car	1497	10223575	11324914
	wedding	928	9225800	10266856
	medical	667	5533225	5851372
	moving	559	3748125	3999899
	house	366	4824925	5185538
	vacation	352	1967950	2116738
	educational	315	2161650	2248380
	renewable_energy	94	845750	898931

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