

## BANK LOAN REPORT QUERY DOCUMENT

### A. BANK LOAN REPORT | SUMMARY

#### KPI's:

##### Total Loan Application

```
SELECT COUNT(id) AS Total_Loan_Applications FROM bank_loan_data
```

Total_Loan_Applications
38576

##### MTD Loan Applications

```
SELECT COUNT(id) AS MTD_Total_Loan_Applications FROM bank_loan_data  
WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021
```

MTD_Total_Loan_Applications
4314

##### PMTD Loan Applications

```
SELECT COUNT(id) AS PMTD_Total_Loan_Applications FROM bank_loan_data  
WHERE MONTH(issue_date) = 11 AND YEAR(issue_date) = 2021
```

PMTD_Total_Loan_Applications
4035

##### Total Funded Amount

```
SELECT SUM(loan_amount) AS Total_Funded_Amount FROM bank_loan_data
```

Total_Funded_Amount
435757075

##### MTD Total Funded Amount

```
SELECT SUM(loan_amount) AS Total_Funded_Amount FROM bank_loan_data  
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 bank_loan_data  
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 bank_loan_data
```

Total_Amount_Received
473070933

### MTD Total Amount Received

```
SELECT SUM(total_payment) AS MTD_Total_Amount_Received FROM bank_loan_data  
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 bank_loan_data  
WHERE MONTH(issue_date) = 11 AND YEAR(issue_date) = 2021
```

PMTD_Total_Amount_Received
50132030

### Average Interest Rate

```
SELECT AVG(int_rate) * 100 AS Avg_Interest_Rate FROM bank_loan_data
```

Avg_Interest_Rate
12.0488314172048

### MTD Average Interest

```
SELECT ROUND(AVG(int_rate),4) * 100 AS MTD_Avg_Interest_Rate FROM bank_loan_data  
WHERE MONTH(issue_date) = 12 AND YEAR(issue_date)=2021
```

MTD_Avg_Interest_Rate
12.36

### PMTD Average Interest

```
SELECT ROUND(AVG(int_rate),4) * 100 AS PMTD_Avg_Interest_Rate FROM bank_loan_data
```

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

PMTD_Avg_Interest_Rate
11.94

### Avg DTI

SELECT ROUND(AVG(dti),4) \*100 AS Avg\_DTI FROM bank\_loan\_data

Avg_DTI
13.33

### MTD Avg DTI

SELECT ROUND(AVG(dti),4) \*100 AS MTD\_Avg\_DTI FROM bank\_loan\_data

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

MTD_Avg_DTI
13.67

### PMTD Avg DTI

SELECT ROUND(AVG(dti),4) \*100 AS PMTD\_Avg\_DTI FROM bank\_loan\_data

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 bank\_loan\_data

Good_loan_percentage
86

### 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_Applications
33243

### 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_Funded_Amount
370224850

### Good Loan Amount Received

```
SELECT SUM(total_payment) AS Good_Loan_Amount_Recieved FROM bank_loan_data
WHERE loan_status = 'Fully Paid' OR loan_status = 'Current'
```

Good_Loan_Amount_Recieved
435786170

## 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 bank_loan_data
```

Bad_loan_Percentage
13.824657818332

### Bad Loan Applications

```
SELECT COUNT(id) AS Bad_Loan_Applications FROM bank_loan_data
WHERE loan_status = 'Charged Off'
```

Bad_Loan_Applications
5333

### Bad Loan Funded Amount

```
SELECT SUM(loan_amount) AS Bad_Loan_Funded_Amount FROM bank_loan_data
WHERE loan_status = 'Charged Off'
```

Bad_Loan_Funded_Amount
65532225

### Bad Loan Amount Received

```
SELECT SUM(total_payment) AS Bad_Loan_Amount_Recieved FROM bank_loan_data  
WHERE loan_status = 'Charged Off'
```

Bad_Loan_Amount_Recieved
37284763

### 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	LoanCount	Total_Amount_Received	Total_Funded_Amount	Interest_Rate	DTI
1	Fully Paid	32145	411586256	351358350	11.6410707918092	13.1673507557434
2	Charged Off	5333	37284763	65532225	13.8785749318289	14.0047328005517
3	Current	1098	24199914	18866500	15.0993260800947	14.7243442736843

```
SELECT  
    loan_status,  
    SUM(total_payment) AS MTD_Total_Amount_Received,  
    SUM(loan_amount) AS MTD_Total_Funded_Amount  
FROM bank_loan_data  
WHERE MONTH(issue_date) = 12  
GROUP BY loan_status
```

	loan_status	MTD_Total_Amount_Received	MTD_Total_Funded_Amount
1	Fully Paid	47815851	41302025
2	Charged Off	5324211	8732775
3	Current	4934318	3946625

## B. BANK LOAN REPORT | OVERVIEW

### MONTH

SELECT

MONTH(issue\_date) AS Month\_Number,  
 DATENAME(MONTH, issue\_date) AS Month\_Name,  
 COUNT(id) AS Total\_Loan\_Applications,  
 SUM(loan\_amount) AS Total\_Funded\_Amount,  
 SUM(total\_payment) AS Total\_Received\_Amount

FROM bank\_loan\_data

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

ORDER BY MONTH(issue\_date)

	Month_Number	Month_Name	Total_Loan_Applications	Total_Funded_Amount	Total_Received_Amount
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	September	3536	40907725	43983948
10	10	October	3796	44893800	49399567
11	11	November	4035	47754825	50132030
12	12	December	4314	53981425	58074380

### STATE

SELECT

address\_state,  
 COUNT(id) AS Total\_Loan\_Applications,  
 SUM(loan\_amount) AS Total\_Funded\_Amount,

```

SUM(total_payment) AS Total_Received_Amount

FROM bank_loan_data

GROUP BY address_state

ORDER BY address_state

```

	address_state	Total_Loan_Applications	Total_Funded_Amount	Total_Received_Amount
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

## TERM

SELECT

```

term,
COUNT(id) AS Total_Loan_Applications,
SUM(loan_amount) AS Total_Funded_Amount,
SUM(total_payment) AS Total_Received_Amount

```

FROM bank\_loan\_data

GROUP BY term

ORDER BY term

	term	Total_Loan_Applications	Total_Funded_Amount	Total_Received_Amount
1	36 months	28237	273041225	294709458
2	60 months	10339	162715850	178361475

## EMPLOYEE LENGTH

SELECT

emp\_length,

COUNT(id) AS Total\_Loan\_Applications,

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

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

FROM bank\_loan\_data

GROUP BY emp\_length

ORDER BY emp\_length

	emp_length	Total_Loan_Applications	Total_Funded_Amount	Total_Received_Amount
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\_Applications,

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



```

SUM(total_payment) AS Total_Received_Amount

FROM bank_loan_data

GROUP BY purpose

ORDER BY purpose

```

	purpose	Total_Loan_Applications	Total_Funded_Amount	Total_Received_Amount
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_Applications,

    SUM(loan_amount) AS Total_Funded_Amount,

    SUM(total_payment) AS Total_Received_Amount

FROM bank_loan_data

GROUP BY home_ownership

ORDER BY home_ownership

```

	home_ownership	Total_Loan_Applications	Total_Funded_Amount	Total_Received_Amount
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