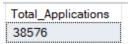
BANK LOAN REPORT QUERY DOCUMENT

A. BANK LOAN REPORT | SUMMARY

KPI's:

Total Loan Applications

SELECT COUNT(id) AS Total_Applications FROM bank_loan_db



MTD Loan Applications- MTM = month to date

SELECT COUNT(id) AS MTM_Total_Applications FROM bank_loan_db
WHERE MONTH(issue_date) = 12



PMTD Loan Applications = previous month to date

SELECT COUNT(id) AS PMTD_Total_Applications FROM bank_loan_db
WHERE MONTH(issue_date) = 11



Formula = (MTD-PMTD)/PMTD

Total Funded Amount

SELECT SUM(loan_amount) AS Total_Funded_Amount FROM bank_loan_db

```
Total_Funded_Amount
435757075
```

MTD Total Funded Amount

SELECT SUM(loan_amount) AS MTD_Total_Funded_Amount FROM bank_loan_db
WHERE MONTH(issue_date) = 12

```
Total_Funded_Amount
53981425
```

PMTD Total Funded Amount

SELECT SUM(loan_amount) AS PMTD_Total_Funded_Amount FROM bank_loan_db
WHERE MONTH(issue_date) = 11

```
Total_Funded_Amount
47754825
```

Total Amount Received

```
SELECT SUM(total_payment) AS Total_Amount_Collected FROM bank_loan_db
```

```
Total_Amount_Collected
473070933
```

MTD Total Amount Received

```
SELECT SUM(total_payment) AS MTD_Total_Amount_Collected FROM bank_loan_db
WHERE MONTH(issue_date) = 12
```

58 MILLION DOLLARS

```
Total_Amount_Collected 58074380
```

PMTD Total Amount Received

```
SELECT SUM(total_payment) AS PMTD_Total_Amount_Collected FROM bank_loan_db
WHERE MONTH(issue_date) = 11
```

50 MILLION

```
Total_Amount_Collected 50132030
```

Average Interest Rate

```
SELECT AVG(int_rate)*100 AS Avg_Int_Rate FROM bank_loan_db
```

*100 TO GET PERCENTAGE SO ITS 12.04 PERCENT

```
Avg_Int_Rate
12.0488314172048
```

MTD Average Interest

```
SELECT AVG(int_rate)*100 AS MTD_Avg_Int_Rate FROM bank_loan_db
WHERE MONTH(issue_date) = 12
```

```
MTD_Avg_Int_Rate
12.3560408676042
```

PMTD Average Interest

```
SELECT AVG(int_rate)*100 AS PMTD_Avg_Int_Rate FROM bank_loan_db
WHERE MONTH(issue_date) = 11
```

```
PMTD_Avg_Int_Rate
11.9417175498261
```

IF YOU WANT FOR TWO DECIMALS YOU CAN USE THE ROUND FUNCTION

Eg. ROUND(AVG(dti),2) 100

```
SELECT AVG(dti)*100 AS Avg_DTI FROM bank_loan_db
```

```
Avg_DTI
13.3274331211432
```

MTD Avg DTI

```
SELECT AVG(dti)*100 AS MTD_Avg_DTI FROM bank_loan_db
WHERE MONTH(issue_date) = 12
```

```
MTD_Avg_DTI
13.6655377880425
```

PMTD Avg DTI

```
SELECT AVG(dti)*100 AS PMTD_Avg_DTI FROM bank_loan_db
WHERE MONTH(issue_date) = 11
```

```
PMTD_Avg_DTI
13.3027335836364
```

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 bank_loan_db
```

86% of the good loan has been disbursed

```
Good_Loan_Percentage
86.175342181667
```

Good Loan Applications

```
SELECT COUNT(id) AS Good_Loan_Applications FROM bank_loan_db
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_db
WHERE loan status = 'Fully Paid' OR loan status = 'Current'
```

```
Good_Loan_Funded_amount
370224850
```

370 million

Good Loan Amount Received

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

Good_Loan_amount_received
435786170
```

435 million

So in return bank is getting a profit of 5 million

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_db

Bad_Loan_Percentage
13.824657818332

13%

Bad Loan Applications

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

Bad_Loan_Applications
5333
```

In this year bank has give 5.3k applications which are not good for the banks

Bad Loan Funded Amount

```
SELECT SUM(loan_amount) AS Bad_Loan_Funded_amount FROM bank_loan_db
WHERE loan_status = 'Charged Off'

Bad_Loan_Funded_amount
65532225
```

65 million

Bad Loan Amount Received

```
SELECT SUM(total_payment) AS Bad_Loan_amount_received FROM bank_loan_db
WHERE loan_status = 'Charged Off'

Bad_Loan_amount_received
37284763
```

37 million received

Bad for banks losing their money...investigate .. that's when the banks see the cibil score so based on that they should give the loan. If the credit score is correct or good then they will understand whether a person will able to give their money back or not

LOAN STATUS

```
SELECT
loan_status,
COUNT(id) AS Total_Loan_applications,
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_db
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 |

| loan_status | MTD_Total_Amount_Received | MTD_Total_Funded_Amount |
|-------------|---------------------------|-------------------------|
| Fully Paid | 47815851 | 41302025 |
| Charged Off | 5324211 | 8732775 |
| Current | 4934318 | 3946625 |

B. BANK LOAN REPORT | OVERVIEW

MONTH

```
SELECT

MONTH(issue_date) AS Month_Munber,

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_Amount_Received

FROM bank_loan_db

GROUP BY MONTH(issue_date), DATENAME(MONTH, issue_date)

ORDER BY MONTH(issue_date)
```

| | Month_Munber | Month_name | Total_Loan_Applications | Total_Funded_Amount | Total_Amount_Received |
|----|--------------|------------|-------------------------|---------------------|-----------------------|
| 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 AS State,

COUNT(id) AS Total_Loan_Applications,

SUM(loan_amount) AS Total_Funded_Amount,

SUM(total_payment) AS Total_Amount_Received

FROM bank_loan_db

GROUP BY address_state

ORDER BY address_state
```

| | State | Total_Loan_Applications | Total_Funded_Amount | Total_Amount_Received |
|----|-------|-------------------------|---------------------|-----------------------|
| 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 | ОН | 1188 | 12991375 | 14330148 |
| 36 | ок | 293 | 3365725 | 3712649 |
| 37 | OR | 436 | 4720150 | 4966903 |
| 38 | PA | 1482 | 15826525 | 17462908 |
| 39 | RI | 196 | 1883025 | 2001774 |

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 bank_loan_db

GROUP BY term

ORDER BY term
```

| | Term | Total_Loan_Applications | Total_Funded_Amount | Total_Amount_Received |
|---|-----------|-------------------------|---------------------|-----------------------|
| 1 | 36 months | 28237 | 273041225 | 294709458 |
| 2 | 60 months | 10339 | 162715850 | 178361475 |

EMPLOYEE LENGTH

SELECT

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

HOME OWNERSHIP

SELECT

| Home_Ownership | Total_Loan_Applications | Total_Funded_Amount | Total_Amount_Received |
|----------------|-------------------------|---------------------|-----------------------|
| MORTGAGE | 17198 | 219329150 | 238474438 |
| NONE | 3 | 16800 | 19053 |
| OTHER | 98 | 1044975 | 1025257 |
| OWN | 2838 | 29597675 | 31729129 |
| RENT | 18439 | 185768475 | 201823056 |

SELECT