Bank Loan Report Query Document

1. Bank Loan Report | Summary

KPI's:

38576

Total Loan Application

SELECT COUNT(id) AS Total_Applications FROM Bank_loan_data;

Total_Applications

MTD Total Loan Application

SELECT COUNT(id) AS MTD_Total_Applications FROM Bank_loan_data WHERE MONTH(issue_date) =12;



PMTD Total Loan Application

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

PMTD_Total_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 MTD_Total_Funded_Amount FROM Bank_loan_data WHERE MONTH(issue_date) =12;

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;

```
PMTD_Total_Funded_Amount
47754825
```

Total Amount received

SELECT SUM(total_payment) AS Total_Amount Received FROM Bank_loan data;



MTD Total Amount received

SELECT SUM(total_payment) AS MTD_Total_Amount_Received FROM Bank_loan_data WHERE MONTH(issue_date) =12;

```
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;

```
PMTD_Total_Amount_Received
50132030
```

Average Interest Rate

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

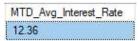


MTD Average Interest Rate

SELECT ROUND(AVG(int_rate) *100, 2) AS MTD_Avg_Interest_Rate FROM

Bank_loan_data

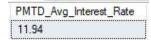
WHERE MONTH(issue date) =12;



PMTD Average Interest Rate

SELECT ROUND(AVG(int_rate) *100, 2) AS PMTD_Avg_Interest_Rate FROM Bank_loan_data

WHERE MONTH(issue date) =11;



Average Debt-to-Income Ratio (DTI)

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



MTD Average Debt-to-Income Ratio (DTI)

SELECT ROUND(AVG(dti) *100, 2) AS MTD_Avg_DTI FROM Bank_loan_data WHERE MONTH(issue_date) =12;



PMTD Average Debt-to-Income Ratio (DTI)

SELECT ROUND(AVG(dti) *100, 2) AS PMTD_Avg_DTI FROM Bank_loan_data WHERE MONTH(issue_date) =11;



GOOD LOAN ISSUED;

Good Loan Application 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_data;

```
Good_Loan_Percentage
86.175342181667
```

Good Loan Application

```
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_Amout FROM Bank_loan_data
WHERE loan_status = 'Fully Paid' or loan_status = 'Current';

Good_Loan_Funded_Amout
370224850
```

Good Loan Total Received Amount

```
SELECT SUM(total_payment) As Good_Loan_Received_Amout FROM Bank_loan_data
WHERE loan_status = 'Fully Paid' or loan_status = 'Current';

Good_Loan_Received_Amout
435786170
```

BAD LOAN ISSUED

Bad Loan Application 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 Application

```
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_Amout FROM Bank_loan_data WHERE loan_status = 'Charged Off';



Bad Loan Total Received Amount

SELECT SUM(total_payment) As Bad_Loan_Received_Amout FROM Bank_loan_data WHERE loan_status = 'Charged Off';



LOAN STATUS

Loan Status Grid View

```
SELECT loan_status,
```

COUNT(id) AS Total_Loan_Applications,

SUM(loan amount) AS Total_Funded account,

SUM(total payment) AS Total Amount Received,

AVG(int_rate) AS Avg_Interest_Rate,

AVG(dti) AS Avg_DTI

FROM Bank_loan_data
GROUP BY Loan status;

loan_status	Total_Loan_Applications	Total_Funded_account	Total_Amount_Received	Avg_Interest_Rate	Avg_DTI
Fully Paid	32145	351358350	411586256	0.116410707918092	0.131673507557434
Charged Off	5333	65532225	37284763	0.138785749318289	0.140047328005517
Current	1098	18866500	24199914	0.150993260800947	0.147243442736843

MTD

SELECT loan_status,

SUM(loan_amount) AS MTD_Total_Funded_account,

SUM(total payment) AS MTD Total Amount Received

FROM Bank_loan_data

WHERE MONTH(issue date) = 12

GROUP BY Loan status;

loan_status	MTD_Total_Funded_account	MTD_Total_Amount_Received
Fully Paid	41302025	47815851
Charged Off	8732775	5324211
Current	3946625	4934318

1. Bank Loan Report | Overview

MONTH

Monthly trends by Issue Date

```
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_account,

SUM(total_payment) AS Total_Amount_Received

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_account	Total_Amount_Received
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

Regional Analysis by State

```
SELECT
address_state,
COUNT(id) AS Total_Loan_Applications,
SUM(loan_amount) AS Total_Funded_account,
SUM(total_payment) AS Total_Amount_Received
FROM Bank_loan_data
GROUP BY address_state
ORDER BY COUNT(id) DESC
```

address_state	Total_Loan_Applications	Total_Funded_account	Total_Amount_Received
CA	6894	78484125	83901234
NY	3701	42077050	46108181
FL	2773	30046125	31601905
TX	2664	31236650	34392715
NJ	1822	21657475	23425159
IL	1486	17124225	18875941
PA	1482	15826525	17462908
VA	1375	15982650	17711443
GA	1355	15480325	16728040
MA	1310	15051000	16676279
ОН	1188	12991375	14330148
MD	1027	11911400	12985170
AZ	833	9206000	10041986
WA	805	8855525	9531739
CO	770	8976000	9845810
NC	759	8787575	9534813
CT	730	8435575	9357612
MI	685	7829900	8543660
МО	660	7151175	7692732
MN	592	6302600	6750746
NV	482	5307375	5451443
SC	464	5080475	5462458
WI	446	5070450	5485161
OR	436	4720150	4966903
Al	432	4949225	5492272

TERM

Term Loan Analysis

SELECT

term,

COUNT(id) AS Total_Loan_Applications, SUM(loan_amount) AS Total_Funded_account, SUM(total_payment) AS Total_Amount_Received

FROM Bank_loan_data

GROUP BY term

ORDER BY COUNT(id) DESC

term	Total_Loan_Applications	Total_Funded_account	Total_Amount_Received
36 months	28237	273041225	294709458
60 months	10339	162715850	178361475

EMPLOYEE LENGTH

Employee Length Analysis

```
SELECT
```

emp_length	Total_Loan_Applications	Total_Funded_account	Total_Amount_Received
10+ years	8870	116115950	125871616
< 1 year	4575	44210625	47545011
2 years	4382	44967975	49206961
3 years	4088	43937850	47551832
4 years	3428	37600375	40964850
5 years	3273	36973625	40397571
1 year	3229	32883125	35498348
6 years	2228	25612650	27908658
7 years	1772	20811725	22584136
8 years	1476	17558950	19025777
9 years	1255	15084225	16516173

PURPOSE

Loan Purpose Breakdown

SELECT

```
purpose,
```

```
COUNT(id) AS Total_Loan_Applications,
SUM(loan_amount) AS Total_Funded_account,
SUM(total_payment) AS Total_Amount_Received
FROM Bank_loan_data
GROUP BY purpose
ORDER BY COUNT(id) DESC
```

purpose	Total_Loan_Applications	Total_Funded_account	Total_Amount_Received
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

Home Ownership Analysis

SELECT

home_ownership,

COUNT(id) AS Total_Loan_Applications,

SUM(loan amount) AS Total_Funded account,

SUM(total_payment) AS Total_Amount_Received

FROM Bank_loan_data

GROUP BY home_ownership

ORDER BY COUNT(id) DESC

home_ownership	Total_Loan_Applications	Total_Funded_account	Total_Amount_Received
RENT	18439	185768475	201823056
MORTGAGE	17198	219329150	238474438
OWN	2838	29597675	31729129
OTHER	98	1044975	1025257
NONE	3	16800	19053