

PROJECT REPORT FOR BANK LOAN By

Tableau and SQL



Lets start.



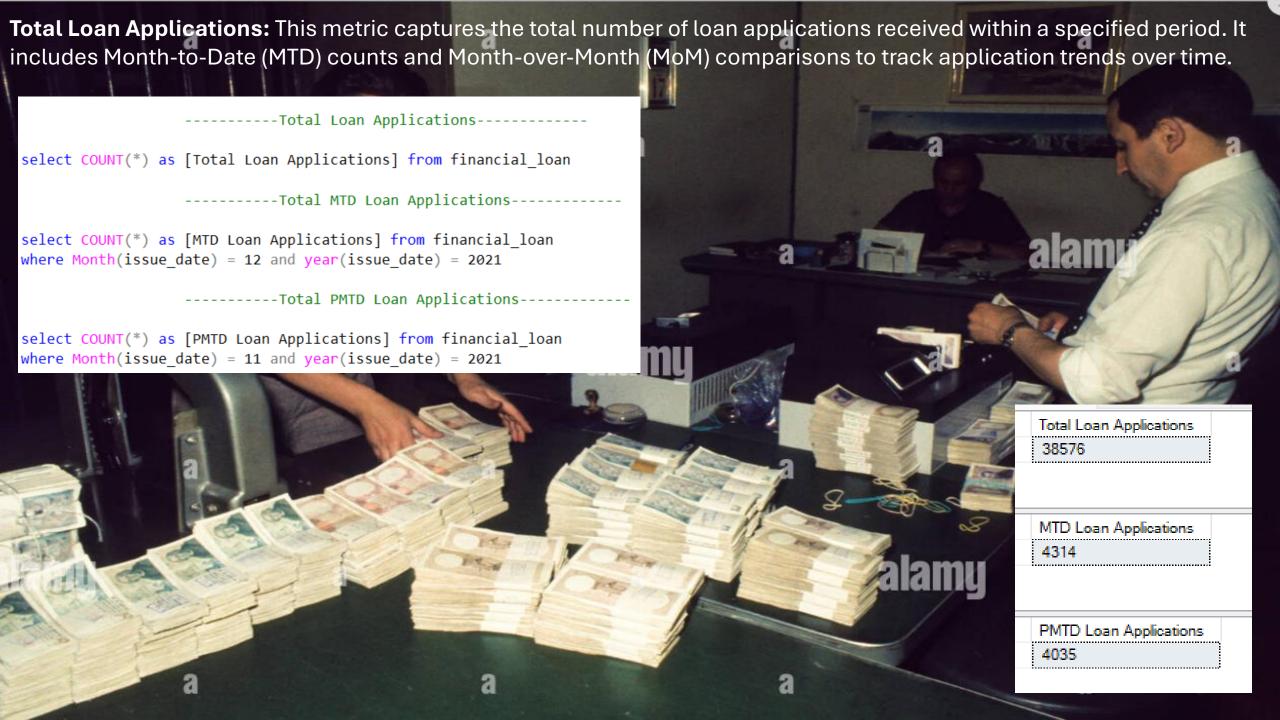
Summary:

> To effectively monitor and evaluate our bank's lending performance, we aim to develop a comprehensive Bank Loan Report.



- > This report will deliver valuable insights into key loan metrics and their trends over time, enabling data-driven decision-making.
- > By assessing the health of our loan portfolio and identifying critical patterns, this report will support strategic enhancements to our lending practices.





Total Funded Amount: This metric reflects the total value of funds disbursed as loans within a given period. Tracking the Month-to-Date (MTD) funded amount and analyzing Month-over-Month (MoM) changes provide insights into funding trends and lending growth.





Total Amount Received: Monitoring the total payments from borrowers is crucial for evaluating cash flow and loan repayment progress. We will analyze the Month-to-Date (MTD) received amount and track Month-over-Month (MoM) changes to identify repayment trends. --Total amount Received-----Total Amount Received 473070933 select sum(total payment) as [Total Amount Received] from financial loan -----Total MTD amount Received-----MTD Total Amount Received select sum(total payment) as [MTD Total Amount Received] from financial loan 58074380 where month(issue_date) = 12 and year(issue date) = 2021 -----Total PMTD amount Received-----PMTD Total Amount Received 50132030 select sum(total payment) as [PMTD Total Amount Received] from financial loan where month(issue_date) = 11 and year(issue_date) = 2021



Average Interest Rate: Calculating the average interest rate for all loans, both month-to-date (MTD) and tracking month-over-month (MoM) variations, will offer insights into the overall cost of our lending portfolio and help assess pricing trends.

DEVELOPMENT Banks in India

-----Average Interest Rate-----

select round(avg(int_rate), 4) * 100 as [Average Interest Rate] from financial_loan

-----Average MTD Interest Rate-----

select round(avg(int_rate), 4) * 100 as [MTD Average Interest Rate] from financial_loan
where MONTH(issue date) = 12 and year(issue date) = 2021

-----Average PMTD Interest Rate-----

select round(avg(int_rate), 4) * 100 as [PMTD Average Interest Rate] from financial_loan
where MONTH(issue_date) = 11 and year(issue_date) = 2021

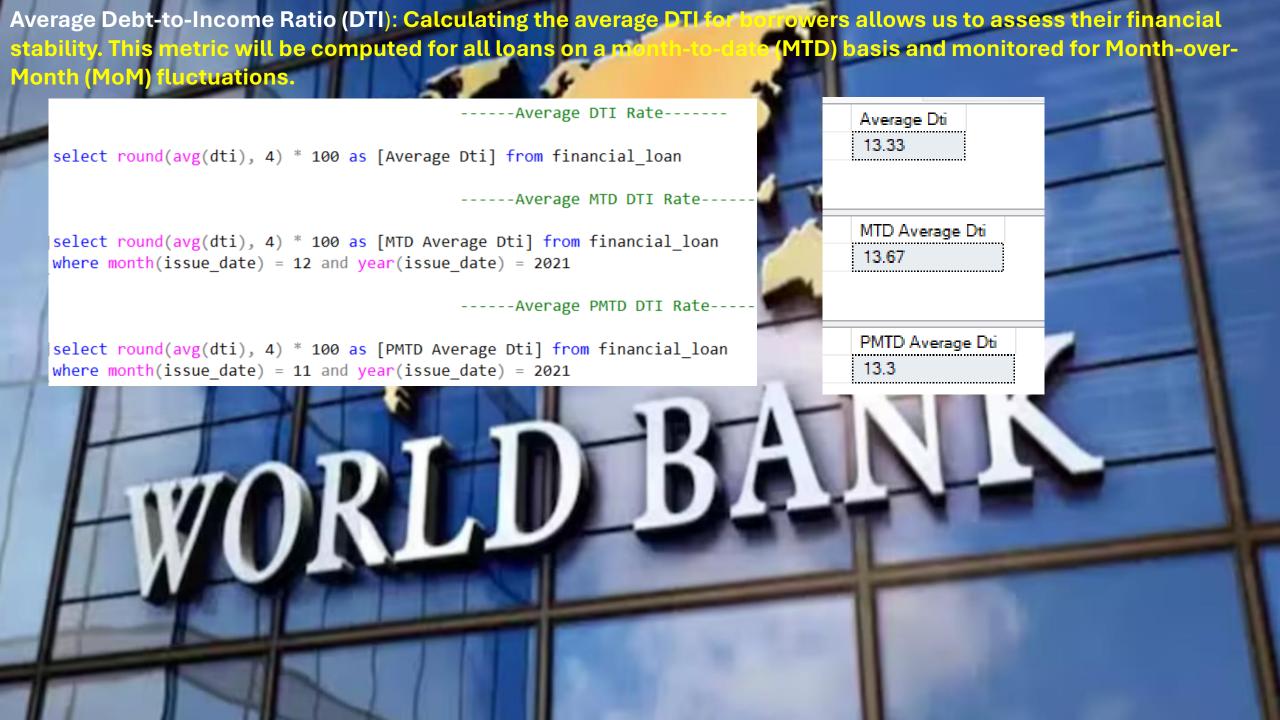


Average Interest Rate

12.05

MTD Average Interest Rate

PMTD Average Interest Rate



Good Loan Application %: This metric calculates the proportion of loan applications classified as 'Good Loans,' which includes loans marked as 'Fully Paid' or 'Current.' It provides insight into the quality and performance of our loan portfolio

```
-----Good loan percentage------
select
(count(case when loan_status = 'Fully Paid' or loan_status = 'Current' then id end) * 100)
/count(id) as [Good Loan %] from financial_loan
```



Good Loan % 86

Good Loan Applications: Identifying the total number of loan applications categorized as 'Good Loans,' defined by loans with a 'Fully Paid' or 'Current' status.

```
------Good loan Applications---
select count(id) as [Good Loan Applications] from financial_loan
where loan_status = 'Fully Paid' or loan_status = 'Current'
```

Good Loan Applications 33243 **Good Loan Funded Amount:** Calculating the total disbursed funds for 'Good Loans,' including principal amounts for loans with a 'Fully Paid' or 'Current' status.

```
-----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 Ioan Funded Amount 370224850

Good Loan Total Received Amount: Tracking the total payments received from borrowers on 'Good Loans,' including all payments for loans marked as 'Fully Paid' or 'Current.'"

```
-------Good Loan Total Amount Received-
select sum(total_payment) as [Good Loan Total Amount Received] from financial_loan
where loan_status = 'Fully Paid' or loan_status = 'Current'
```

Good Loan Total Amount Received 435786170 **Bad Loan** %: Calculates the proportion of loan applications categorized as 'Bad Loans,' specifically those marked as 'Charged Off.'

```
select (count(case when loan_status = 'Charged Off' then id end) * 100)
/count(id) as [Bad Loan %] from financial_loan
```

```
Bad Loan %
13
```

Bad Loan Applications: Identifies the total number of loan applications designated as 'Bad Loans,' including those with a 'Charged Off' status.

```
select count(id) as [Bad Loan Applications] from financial_loan
where loan_status = 'Charged Off'
```

```
Bad Loan Applications
5333
```

Bad Loan Funded Amount: Determines the total disbursed amount for 'Bad Loans,' representing the principal of loans marked as 'Charged Off.'

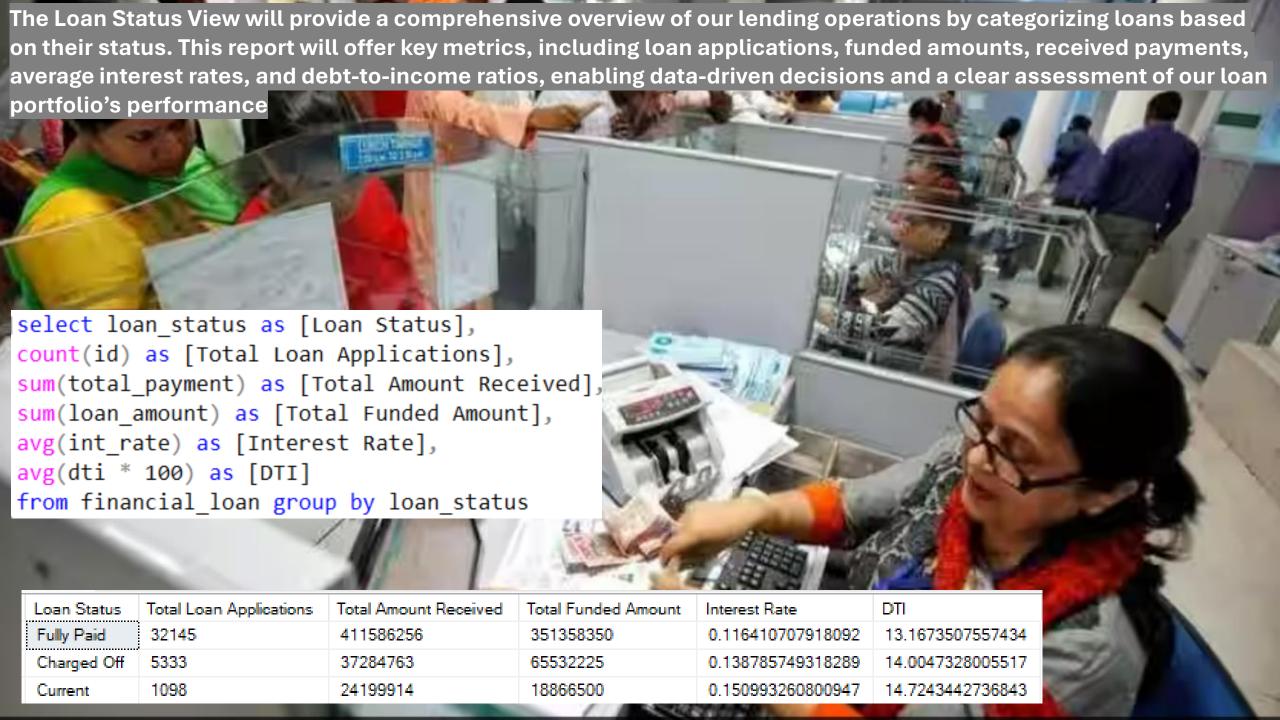
```
select sum(loan_amount) as [Bad loan Funded Amount] from financial_loan
where loan_status = 'Charged Off'
```

Bad Ioan Funded Amount 65532225

Bad Loan Total Received Amount: Tracks the total payments received from borrowers on 'Bad Loans,' which includes all repayments for loans classified as 'Charged Off.'

```
select sum(total_payment) as [Bad Loan Total Amount Received] from financial_loan
where loan_status = 'Charged Off'
```

Bad Loan Total Amount Received 37284763



Monthly Trend Analysis by Issue Date for Bank Project

```
select
month(issue_date) as [Month Number],
datename(month, issue_date) as [Month Name],
count(id) as [Total Loan Applications],
sum(total_payment) as [MTD Total Amount Received],
sum(loan_amount) as [MTD Total Funded Amount]
from financial_loan
group by month(issue_date), datename(month, issue_date)
order by month(issue_date)
```





Month Number	Month Name	Total Loan Applications	MTD Total Amount Received	MTD Total Funded Amount
1	January	2332	27578836	25031650
2	February	2279	27717745	24647825
3	March	2627	32264400	28875700
4	April	2755	32495533	29800800
5	May	2911	33750523	31738350
6	June	3184	36164533	34161475
7	July	3366	38827220	35813900
8	August	3441	42682218	38149600
9	September	3536	43983948	40907725
10	October	3796	49399567	44893800
11	November	4035	50132030	47754825
12	December	4314	58074380	53981425

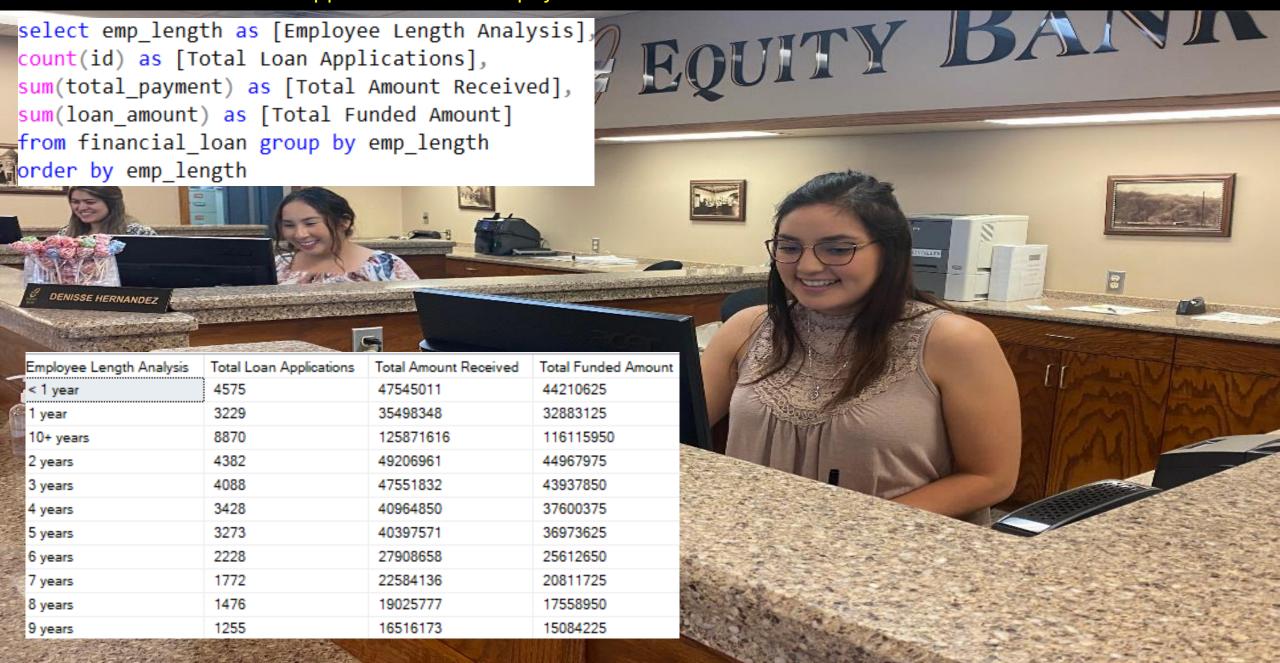
State-Level Regional Analysis for Banking Operations

						The second	The second second			
Region	Total Loan Applications	Total Amount Received	Total Funded Amount			selec	t			
CA	6894	83901234	78484125		A STATE OF THE PARTY OF THE PAR	addre	ss state as	[Region]		
NY	3701	46108181	42077050		CARL CON		_			-
FL	2773	31601905	30046125			count	(id) as [To	tal Loan Ar	plications	,
TX	2664	34392715	31236650			sum(t	otal_paymen	t) as [Tota	al Amount R	eceived1
NJ	1822	23425159	21657475					-		_
IL	1486	18875941	17124225			<pre>sum(loan_amount) as [Total Funded Amount] from financial_loan</pre>				
PA	1482	17462908	15826525							
VA	1375	17711443	15982650							
GA	1355	16728040	15480325			group by address_state				
MA	1310	16676279	15051000			order by count(id) desc				
ОН	1188	14330148	12991375							
MD	1027	12985170	11911400		-	7 7		-		
AZ	833	10041986	9206000		3 13	1	Dra'	TJ		
WA	805	9531739	8855525							
CO	770	9845810								
NC	759	9534813	8787575							
СТ	730	9357612	8435575							
MI	685	8543660	7829900							
МО	660	7692732	7151175							-
MN	592	6750746	6302600							
NV	482	5451443	5307375						S Town	
SC	464	5462458	5080475							
WI	446	5485161	5070450						The year	
OR	436	4966903	4720150							
AL	432	5492272	4949225	MT	79		892047	829525		
LA	426	5001160	4498900	AK	78		1108570	1031800		
KY	320	3792530	3504100						-	
OK	293	3712649	3365725	SD	63		656514	606150		
KS	260	3247394	2872325	VT	54		534973	504100		
UT	252	2952412	2849225	MS	19		149342	139125		
AR	236	2777875	2529700							
DC	214	2921854	2652350	TN	17		141522	162175		
RI	196	2001774	1883025	IN	9		85521	86225		
NM	183	2084485	1916775	ID	6		65329	59750		
HI	170	2080184	1850525							
WV	167	1991936	1830525	NE	5		24542	31700		
NH	161	2101386	1917900	IA	5		64482	56450		
DE	110	1269136	1138100				10000	0000		

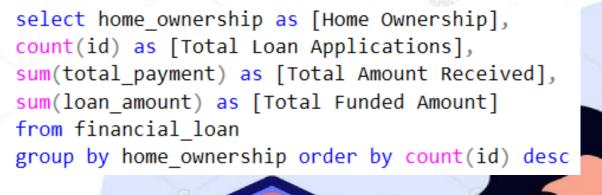
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Loan Term Analysis: This analysis evaluates the distribution and trends of loan terms, providing insights into the duration of loans and their impact on repayment schedules and interest rates. select term as [Term Analysis], count(id) as [Total Loan Applications], sum(total_payment) as [Total Amount Received], sum(loan_amount) as [Total Funded Amount] from financial loan group by term order by term desc Term Analysis Total Loan Applications Total Amount Received Total Funded Amount 10339 178361475 162715850 60 months 28237 294709458 273041225 36 months

Employee Length Analysis: This analysis examines the length of employment for borrowers, helping to assess job stability and its correlation with loan approval rates and repayment behavior.



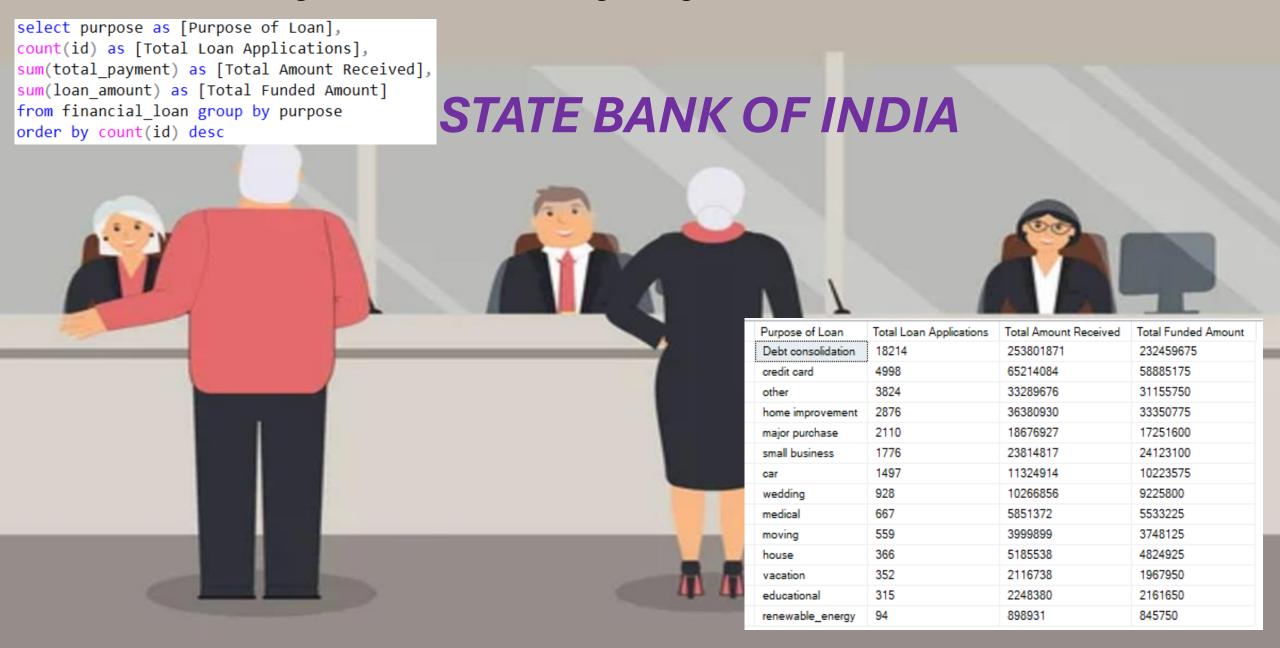
Home Ownership Analysis: This analysis explores the relationship between borrowers' homeownership status and their likelihood of loan approval, repayment success, and risk factors.



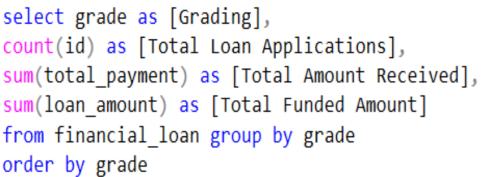


Home Ownership	Total Loan Applications	Total Amount Received	Total Funded Amount
RENT	18439	201823056	185768475
MORTGAGE	17198	238474438	219329150
OWN	2838	31729129	29597675
OTHER	98	1025257	1044975
NONE	3	19053	16800

Loan Purpose Breakdown: This analysis categorizes loans by purpose, offering a clear understanding of the reasons behind borrowing, which can inform lending strategies and risk assessments.



Grading: The grade reflects the applicant's creditworthiness based on factors such as credit score, income stability, debt-to-income ratio, and past repayment history









Verification Status: It includes the status of background checks, identity verification, credit score validation, and income/employment verification. A positive verification status implies that applicant meets bank's requirements for



