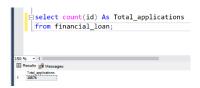
Ms SQL Queries To Evaluate The Values

Here, I'm Writing SQL Queries Based On the Requirements To Evaluate The Values For Dashboards.

KPI's Queries:

1. Total Applications

select count(id) As Total applications from financial loan;



Month-To-Date Total_Applications

select count(id) as MTD_Totalapplications from financial_loan
 where month(issue_date) =12 and year(issue_date) =2021;

PMTD-Total Applications

select count(id) as PMTD_Totalapplications from financial_loan
where month(issue_date)=11 and year(issue_date)=2021;

2. Total Funded Amount

select sum(loan amount) as Total fundedAmount from financial loan;

```
select sum(loan_amount) as Total_fundedAmount from financial_loan;

130 % 
Results Messages

Total_fundedAmount
1 435757075
```

MTD_Total Funded Amount

select sum(loan_amount) as MTD_Total_fundedamount from financial_loan
where month(issue date) =12 and year(issue date) =2021;

PMTD_Total Funded Amount

 $select\ sum(loan_amount)\ as\ PMTD_Total_fundedamount\ from\ financial_loan\ where\ month(issue_date)\ = 11\ and\ year(issue_date)\ = 2021;$

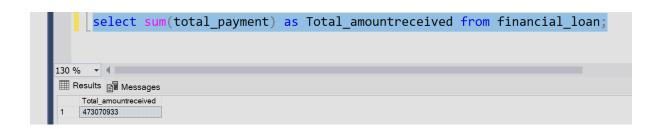
```
select sum(loan_amount) as PMTD_Total_fundedamount from financial_loan where month(issue_date) =11 and year(issue_date) =2021;

130 % 
Results Messages

PMTD_Total_fundedamount
1 47754825
```

3. Total Amount Received

select sum(total payment) as Total amountreceived from financial loan;



MTD Total amount Received

select sum(total_payment) as MTD_Total_amountreceived from financial_loan
where month(issue_date) =12 and year(issue_date) =2021;

PMTD Total Amount Received

select sum(total_payment) as PMTD_Total_amountreceived from financial_loan
where month(issue date) =11 and year(issue date) =2021;

4. Average Interest Rate

select round(avg(int_rate),4)*100 as Avg_interestrate from financial_loan;

```
select round(avg(int_rate),4)*100 as Avg_interestrate from financial_loan;

130 % 
Results Messages

Avg_interestrate
1 12.05
```

MTD Avg Interest rate

 $\frac{\text{select round}(\text{avg}(\text{int_rate}), 4)*100 \text{ as MTD_Avg_interestrate from financial_loan}}{\text{where month}(\text{issue_date}) = 12 \text{ and } \frac{\text{year}(\text{issue_date})}{\text{year}(\text{issue_date})} = 2021;}$

```
select round(avg(int_rate),4)*100 as MTD_Avg_interestrate from financial_loan
where month(issue_date) =12 and year(issue_date) =2021;
### Results **B** Messages*

#### MTD_Avg_interestrate*
1 12.36
```

PMTD_Avg Interest Rate

select round(avg(int_rate),4)*100 as PMTD_Avg_interestrate from financial_loan
where month(issue date) =11 and year(issue date) =2021;

5. Average Debt-To-Income Ratio(DTI)

select round(avg(dti),5)*100 as Avg_DTI from financial_loan;

MTD Average Debt-To-Income Ratio

select round(avg(dti),5)*100 as MTD_Avg_DTI from financial_loan
where month(issue date) =12 and year(issue date) =2021;

```
select round(avg(dti),5)*100 as MTD_Avg_DTI from financial_loan
where month(issue_date) =12 and year(issue_date) =2021;

130 % 

Results Messages

MTD_Avg_DTI
1 13.666
```

PMTD Average Debt To Income Ratio

select round(avg(dti),5)*100 as PMTD_Avg_DTI from financial_loan
where month(issue_date) =11 and year(issue_date) =2021;

```
select round(avg(dti),5)*100 as PMTD_Avg_DTI from financial_loan
where month(issue_date) =11 and year(issue_date) =2021;

## Results ** Messages**

PMTD_Avg_DTI
1 13.303
```

Good Loan vs Bad Loan KPI's

Good Loan KPI's

Results Messages

1.Good Loan Application Percentage

```
select
(count(case when loan_status ='Fully Paid' or loan_status ='Current' Then id end) *100)
/
count(id) as Good_loanpercentage from financial_loan;

select
(count(case when loan_status ='Fully Paid' or loan_status ='Current' Then id end) *100)
//
count(id) as Good_loanpercentage from financial_loan;
```

2.Good Loan Applications

select count(id) As Good_loanapplications from financial_loan where loan status in('Fully Paid','Current');

```
select count(id) As Good_loanapplications from financial_loan where loan_status in('Fully Paid','Current');

120 % 
Results Messages

Good_loanapplications
1 33243
```

3.Good Loan Founded Amount

select sum(loan_amount) as Good_loan_Foundedamount from financial_loan where loan_status in('Fully Paid','Current');

4.Good Loan Total Received amount

select sum(total_payment) as Good_loan_TotalReceivedamount from financial_loan where loan_status in('Fully Paid','Current');

```
select sum(total_payment) as Good_loan_TotalReceivedamount from financial_loan where loan_status in('Fully Paid','Current');

120 % 
Results Messages

Good_loan_TotalReceivedamount
1 435786170
```

BAD Loan KPI's

1.Bad Loan Application Percentage

2.Bad Loan Applications

```
select count(id) As Bad_loanapplications from financial_loan where
loan_status = 'Charged off';
```

3.Bad Loan Founded Amount

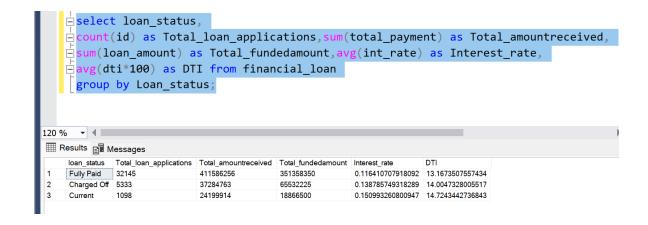
select sum(loan_amount) as Bad_loan_Foundedamount from financial_loan
where loan status ='Charged off';

4.Bad Loan Total Received amount

select sum(total_payment) as Bad_loan_TotalReceivedamount from financial_loan where loan_status ='Charged off';

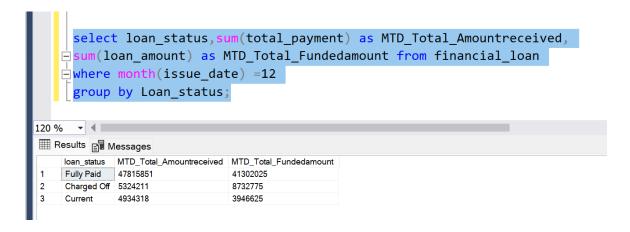
Loan Status Grid View:

select loan_status,count(id) as Total_loan_applications,sum(total_payment) as
Total_amountreceived,sum(loan_amount) as Total_fundedamount,avg(int_rate) as
Interest rate,avg(dti*100) as DTI from financial loan group by Loan status;



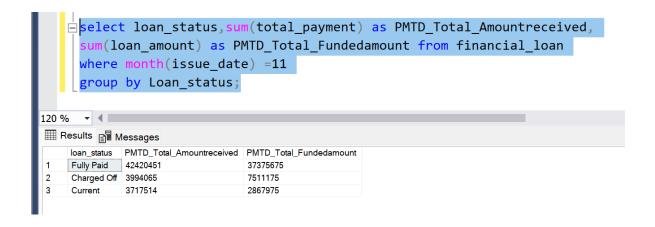
MTD Loan status Grid View

select loan_status,sum(total_payment) as MTD_Total_Amountreceived,
sum(loan_amount) as MTD_Total_Fundedamount from financial_loan where
month(issue date) =12 group by Loan status;



PMTD Loan status Grid View

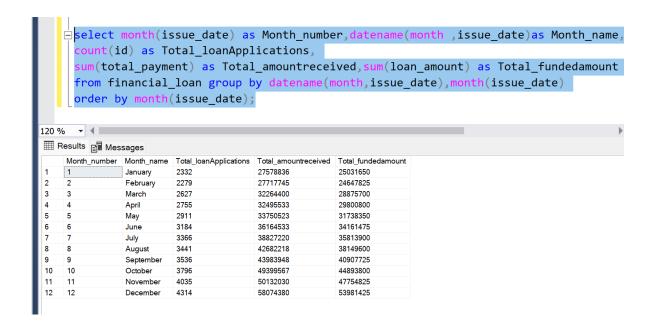
select loan_status,sum(total_payment) as PMTD_Total_Amountreceived,
sum(loan_amount) as PMTD_Total_Fundedamount from financial_loan where
month(issue date) =11 group by Loan status;



Charts Queries:

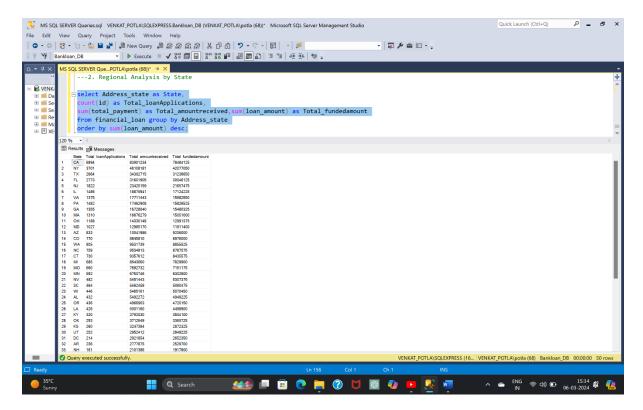
1. Monthly Trends By Issue Date

```
select month(issue_date) as Month_number,datename(month ,issue_date)as
Month_name,
count(id) as Total_loanApplications,
sum(total_payment) as Total_amountreceived,sum(loan_amount) as Total_fundedamount
from financial_loan group by datename(month,issue_date),month(issue_date)
order by month(issue_date);
```



2. Regional Analysis by State

select Address_state as state,count(id) as Total_loanApplications,
sum(total_payment) as Total_amountreceived,sum(loan_amount) as Total_fundedamount
from financial_loan group by Address_state order by sum(loan_amount) desc;



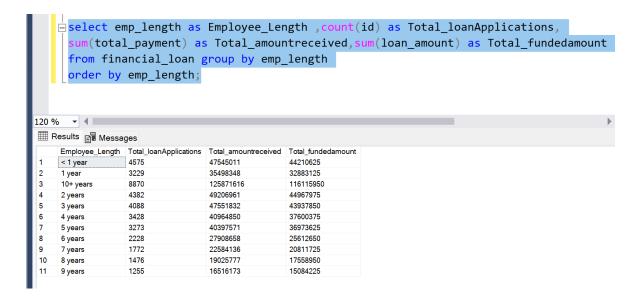
3.Loan Term Analysis

select term as Term,count(id) as Total_loanApplications,sum(total_payment) as Total_amountreceived,sum(loan_amount) as Total_fundedamount from financial_loan group by term order by term;

```
count(id) as Total_loanApplications,
     sum(total_payment) as Total_amountreceived,
     sum(loan_amount) as Total_fundedamount
     from financial loan group by term
     order by term;
120 %
Results Messages
            Total_loanApplications | Total_amountreceived | Total_fundedamount
    Term
    36 months 28237
                          294709458
                                        273041225
    60 months | 10339
                          178361475
                                        162715850
```

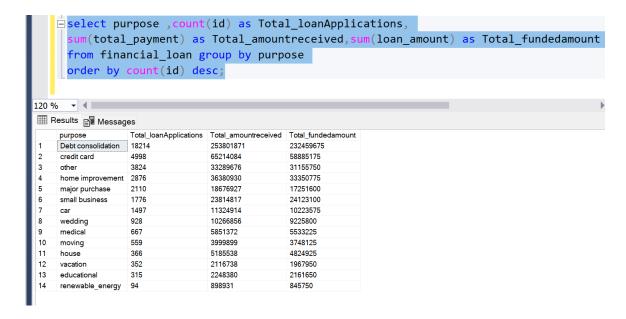
4. Employee Length Analysis

select emp_length as Employee_Length ,count(id) as Total_loanApplications, sum(total_payment) as Total_amountreceived,sum(loan_amount) as Total_fundedamount from financial_loan group by emp_length order by emp_length;



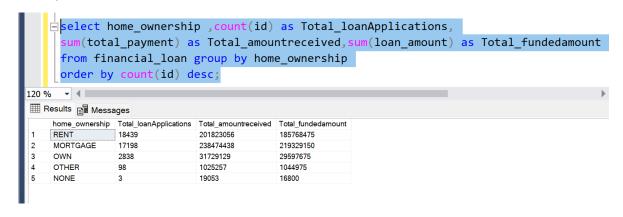
5. Loan Purpose Breakdown

select purpose ,count(id) as Total_loanApplications,
sum(total_payment) as Total_amountreceived,sum(loan_amount) as Total_fundedamount
from financial loan group by purpose order by count(id) desc;



6. Home Ownership Analysis

select home_ownership ,count(id) as Total_loanApplications,sum(total_payment)
as Total_amountreceived,sum(loan_amount) as Total_fundedamount from financial_loan
group by home_ownership
order by count(id) desc;



Grid Details:

Grid View:

select * from financial_loan;

