---------------------------------- SQL QUERIES FOR BANK LOAN APPLICATION PROJECT----------------------------

---1.CALCULATE TOTAL LOAN APPLICATIONS

SELECT COUNT(id) AS 'Total Number Of Loan Applications' FROM [Bank Loan ]



--2.CALCULATE MONTH TO DATE LOAN APPLICATIONS

SELECT COUNT(id) AS 'Total Number Of MTD Loan Application' FROM [Bank Loan ]

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



--3.CALCULATE PREVIOUS MONTH TO DATE LOAN APPLICATIONS

SELECT COUNT(id) AS 'Total Number Of PMTD Loan Application' FROM [Bank Loan ]

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



--4.TOTAL FUNDED AMOUNT (I.E TOTAL AMOUNT DIBURSED AS LOANS)

SELECT SUM(loan\_amount) as 'Total Funded Amount' FROM [Bank Loan ]



--5.TOTAL FUNDED AMOUNT MONTH TO DATE

SELECT SUM(loan\_amount) as 'Total Funded Amount MTD' FROM [Bank Loan ] WHERE MONTH(issue\_date)=12 AND YEAR(issue\_date)=2021



--6.TOTAL FUNDED AMOUNT PREVIOUS MONTH TO DATE

SELECT SUM(loan\_amount) as 'Total Funded Amount PMTD' FROM [Bank Loan ] WHERE MONTH(issue\_date)=11 AND YEAR(issue\_date)=2021



--7.TOTAL AMOUNT RECEIVED

SELECT SUM(total\_payment) AS 'Total Amount Received From Customers' FROM [Bank Loan ]



--8.MTD TOTAL AMOUNT RECEIVED

SELECT SUM(total\_payment) AS 'Total Amount Received From Customers MTD' FROM [Bank Loan ] WHERE MONTH(issue\_date)=12 AND YEAR(issue\_date)=2021

--9.PMTD TOTAL AMOUNT RECIVED

SELECT SUM(total\_payment) AS 'Total Amount Received From Customers PMTD' FROM [Bank Loan ] WHERE MONTH(issue\_date)=11 AND YEAR(issue\_date)=2021

--10.AVERAGE INTEREST RATE

SELECT ROUND(AVG(int\_rate)\*100,2) AS 'Average Interest Rate' FROM [Bank Loan ]

--11.CURRENT MONTH TO DATE AVERAGE INTEREST RATE

SELECT ROUND(AVG(int\_rate)\*100,2) AS 'Average Interest Rate' FROM [Bank Loan ] WHERE MONTH(issue\_date)=12 AND YEAR(issue\_date)=2021

--12.PREVIOUS MONTH TO DATE AVERAGE INTEREST RATE

SELECT ROUND(AVG(int\_rate)\*100,2) AS 'Average Interest Rate' FROM [Bank Loan ] WHERE MONTH(issue\_date)=11 AND YEAR(issue\_date)=2021

--13.AVERAGE DEBT TO INCOME RATIO

SELECT ROUND(AVG(dti)\*100,2) AS 'AVERAGE DTI' FROM [Bank Loan ]

--13.AVERAGE DEBT TO INCOME RATIO MTD

SELECT ROUND(AVG(dti)\*100,2) AS 'AVERAGE DTI FOR CURRENT MONTH' FROM [Bank Loan ] WHERE MONTH(issue\_date)=12 AND YEAR(issue\_date)=2021

--14.AVERAGE DEBT TO INCOME RATIO PMTD

SELECT ROUND(AVG(dti)\*100,2) AS 'AVERAGE DTI FOR PREVIOUS MONTH' FROM [Bank Loan ] WHERE MONTH(issue\_date)=11 AND YEAR(issue\_date)=2021

--15.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 ]

--16.Number of Good Loan

select count(id) as 'Number of Good Loan Applications' from [Bank Loan ] WHERE loan\_status IN ('FULLY PAID','CURRENT')

--17.Total Good Loan Funded Amount

select sum(loan\_amount) as 'Sum Of Good Loan Applications' from [Bank Loan ] WHERE loan\_status='Fully Paid' OR Loan\_status='Current'

--18.Total Amount Received from Good Loan

select sum(total\_payment) AS 'Total Amount Received From Good Loan Applications' from [Bank Loan ] WHERE loan\_status IN ('FULLY PAID','CURRENT')

--19.BAD LOAN PERCENTAGE

SELECT

((COUNT(CASE WHEN loan\_status='Charged Off' THEN id END)\*100)

/COUNT(id)) AS 'Bad Loan Percentage'

FROM [Bank Loan ]

--20.TOTAL APPLICATION OF BAD LOAN

SELECT COUNT(id) AS 'Total Number Of Bad Loan Applications' FROM [Bank Loan ] where loan\_status='Charged off'

--21.BAD LOAN FUNDED AMOUNT

SELECT SUM(loan\_amount) AS 'Bad Loan Funded Amount' FROM [Bank Loan ] where loan\_status='Charged off'

--22.TOTAL AMOUNT RECEIVED FROM BAD LOAN APPLICATIONS

SELECT SUM(total\_payment) AS 'Bad Loan Amount Received' FROM [Bank Loan ] where loan\_status='Charged off'

--23.LOAN STATUS GRID VIEW

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 ] GROUP BY loan\_status

--24.LOAN STATUS GRID VIEW OF CURRENT MONTH

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 ] WHERE MONTH(issue\_date)=12 AND YEAR(issue\_date)=2021 GROUP BY loan\_status

--25.Loan STATUS GRID VIEW monthwise

SELECT MONTH(issue\_date) AS 'Month Number',

DATENAME(MONTH,issue\_date) AS 'Month Name',count(id) as 'Total Loan Application',SUM(loan\_amount) as 'Total Funded Amount',SUM(total\_payment)

as 'Total Amount Received' FROM [Bank Loan ]

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

ORDER BY MONTH(issue\_date)

--25.Loan STATUS GRID VIEW ORDER BY ADDRESS STATE

SELECT address\_state,

count(id) as 'Total Loan Application',SUM(loan\_amount) as 'Total Funded Amount',SUM(total\_payment)

as 'Total Amount Received' FROM [Bank Loan ]

GROUP BY address\_state

ORDER BY address\_state

--26.LOAN STATUS GRID VIEW ORDER BY TOTAL LOAN AMOUNT

SELECT address\_state,

count(id) as 'Total Loan Application',SUM(loan\_amount) as 'Total Funded Amount',SUM(total\_payment)

as 'Total Amount Received' FROM [Bank Loan ]

GROUP BY address\_state

ORDER BY SUM(loan\_amount)

--27.LOAN STATUS GRID VIEW ORDER BY COUNT OF APPLICATION

SELECT address\_state,

count(id) as 'Total Loan Application',SUM(loan\_amount) as 'Total Funded Amount',SUM(total\_payment)

as 'Total Amount Received' FROM [Bank Loan ]

GROUP BY address\_state

ORDER BY COUNT(ID) DESC

--28.LOAN STATUS GRID VIEW ORDER BY TERM

SELECT TERM,

count(id) as 'Total Loan Application',SUM(loan\_amount) as 'Total Funded Amount',SUM(total\_payment)

as 'Total Amount Received' FROM [Bank Loan ]

GROUP BY term

ORDER BY term

--29.LOAN STATUS GRID VIEW ORDER BY EMP LENGTH

SELECT emp\_length,

count(id) as 'Total Loan Application',SUM(loan\_amount) as 'Total Funded Amount',SUM(total\_payment)

as 'Total Amount Received' FROM [Bank Loan ]

GROUP BY emp\_length

ORDER BY emp\_length

--30.LOAN STATUS GRID VIEW GROUP BY PURPOSE

SELECT purpose,

count(id) as 'Total Loan Application',SUM(loan\_amount) as 'Total Funded Amount',SUM(total\_payment)

as 'Total Amount Received' FROM [Bank Loan ]

GROUP BY purpose

ORDER BY COUNT(ID) DESC

--30.LOAN STATUS GRID VIEW GROUP BY HOME OWNERSHIP

SELECT home\_ownership,

count(id) as 'Total Loan Application',SUM(loan\_amount) as 'Total Funded Amount',SUM(total\_payment)

as 'Total Amount Received' FROM [Bank Loan ]

GROUP BY home\_ownership

ORDER BY COUNT(ID) DESC