```
SELECT *

FROM bank_loan_data;


SELECT COUNT(id) AS Total_Loan_Application FROM bank_loan_data;


SELECT COUNT(id) AS MTD_Total_Loan_Application FROM bank_loan_data

WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021;


SELECT SUM(loan_amount) AS MTD_Total_Funded_Amount FROM bank_loan_data; --)it is total loan amount for all persons in year 2021.


SELECT SUM(loan_amount) AS MTD_Total_Funded_Amount FROM bank_loan_data

WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021; --) it is total loan amount given by bank in december 2021.


SELECT SUM(loan_amount) AS PMTD_Total_Funded_Amount FROM bank_loan_data

WHERE MONTH(issue_date) = 11 AND YEAR(issue_date) = 2021; --) For november month ..


--) Here we compared the total amount given by the bank as loan between two months that is nov and dec.


SELECT SUM(total_payment) AS Total_Amount_Received FROM bank_loan_data;


SELECT SUM(total_payment) AS MTD_Total_Amount_Received FROM bank_loan_data

WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021;


SELECT SUM(total_payment) AS PMTD_Total_Amount_Received FROM bank_loan_data

WHERE MONTH(issue_date) = 11 AND YEAR(issue_date) = 2021;


--) Here compared the total Amount received by the bank in the two months that is dec and nov.
```

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

SELECT  ROUND(AVG(int_rate)*100,2) AS MTD_Avg_Interest_Rate FROM bank_loan_data
WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021;

SELECT  ROUND(AVG(int_rate)*100,2) AS PMTD_Avg_Interest_Rate FROM bank_loan_data
WHERE MONTH(issue_date) = 11 AND YEAR(issue_date) = 2021;

--) Here compared the interest rate between the two months.

SELECT ROUND(AVG(dti)*100,2) FROM bank_loan_data;

SELECT ROUND(AVG(dti)*100,2) AS MTD_Avg_DTI FROM bank_loan_data
WHERE MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021;

SELECT ROUND(AVG(dti)*100,2) AS PMTD_Avg_DTI FROM bank_loan_data
WHERE MONTH(issue_date) = 11 AND YEAR(issue_date) = 2021;

--) Here compared the average dti values of the months that is november and december.

SELECT COUNT(id)*100/(SELECT COUNT(id) FROM bank_loan_data)
FROM bank_loan_data
WHERE loan_status = 'Fully Paid' OR loan_status = 'Current';

SELECT COUNT(id) AS Bad_loan_applications
FROM bank_loan_data
WHERE loan_status = 'Fully Paid' OR loan_status = 'Current';
```

```
SELECT SUM(loan_amount) AS Good_Loan_Funded_Amount FROM bank_loan_data
WHERE loan_status = 'Fully Paid' OR loan_status = 'Current';

SELECT SUM(total_payment) AS Received_Loan_Funded_Amount FROM bank_loan_data
WHERE loan_status = 'Fully Paid' OR loan_status = 'Current';

--) for bad loan..
SELECT COUNT(id)*100/(SELECT COUNT(id) FROM bank_loan_data)
FROM bank_loan_data
WHERE loan_status = 'Charged Off';

SELECT COUNT(id) AS Bad_loan_applications
FROM bank_loan_data
WHERE loan_status = 'Charged Off';

SELECT SUM(loan_amount) AS Bad_Loan_Funded_Amount FROM bank_loan_data
WHERE loan_status = 'Charged Off';

SELECT SUM(total_payment) AS Received_Loan_Funded_Amount FROM bank_loan_data
WHERE loan_status = 'Charged Off';

--) DTI VALUE

        SELECT
    loan_status,
    COUNT(id) AS LoanCount,
    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_data
  GROUP BY
    loan_status;

--) For month to date query..

SELECT
        loan_status,
        SUM(total_payment) AS MTD_Total_Amount_Received,
        SUM(loan_amount) AS MTD_Total_Funded_Amount
FROM bank_loan_data
WHERE MONTH(issue_date) = 12  --) in the month of december..
GROUP BY loan_status;

--) For 2nd Dashboard that is overview..

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_Amount,
    SUM(total_payment) AS Total_Received_Amount
FROM bank_loan_data
GROUP BY MONTH(issue_date),DATENAME(MONTH,issue_date)
ORDER BY MONTH(issue_date);



SELECT address_state,
```

```
    COUNT(id) AS Total_Loan_Applications,
    SUM(loan_amount) AS Total_Funded_Amount,
    SUM(total_payment) AS Total_Received_Amount
FROM bank_loan_data
GROUP BY address_state
ORDER BY SUM(loan_amount) DESC;


SELECT term,
    COUNT(id) AS Total_Loan_Applications,
    SUM(loan_amount) AS Total_Funded_Amount,
    SUM(total_payment) AS Total_Received_Amount
FROM bank_loan_data
GROUP BY term
ORDER BY term;


SELECT emp_length,
    COUNT(id) AS Total_Loan_Applications,
    SUM(loan_amount) AS Total_Funded_Amount,
    SUM(total_payment) AS Total_Received_Amount
FROM bank_loan_data
GROUP BY emp_length
ORDER BY emp_length;

SELECT purpose,
    COUNT(id) AS Total_Loan_Applications,
    SUM(loan_amount) AS Total_Funded_Amount,
    SUM(total_payment) AS Total_Received_Amount
```

```
FROM bank_loan_data
GROUP BY purpose
ORDER BY COUNT(id) DESC;


SELECT home_ownership,
    COUNT(id) AS Total_Loan_Applications,
    SUM(loan_amount) AS Total_Funded_Amount,
    SUM(total_payment) AS Total_Received_Amount
FROM bank_loan_data
GROUP BY home_ownership
ORDER BY COUNT(id) DESC;
```