```
Select * from financial_loan;
-- Total Number of Applications --
select COUNT(id) as Total_Applications from financial_loan;
-- Total Number of Applications for Dec, 2021 month --
select COUNT(id) as Month to Date Applications from financial loan
where MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021;
--Total Funded Amount --
select SUM(loan_amount) as Total_Funded_Amount from financial_loan;
--Total Funded Amount DEC 2021 --
select SUM(loan_amount) as MTD_Total_Funded_Amount from financial_loan
where MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021;
-- Total Amount Recieved --
select SUM(total_payment) as Total_Amount_Recieved from financial_loan;
-- Total Amount Recieved current month --
select SUM(total_payment) as Total_Amount_Recieved from financial_loan
where MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021;
-- Average Interest Rate ---
select Round(AVG(int_rate),4)*100 AS Avg_Interest_Rate from financial_loan;
-- Average Interest Rate for Current Month --
select Round(AVG(int_rate),4)*100 AS MTD_Avg_Interest_Rate from financial_loan
where MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021;
-- Average DTI (Debt to Income) Ratio --
select Round(AVG(dti),4)*100 AS Avg_DTI from financial_loan;
-- Average DTI (Debt to Income) Ratio MTD --
select Round(AVG(dti),4)*100 AS MTD_Avg_DTI from financial_loan
where MONTH(issue_date) = 12 AND YEAR(issue_date) = 2021;
-- Good Loan Percentage --
select COUNT(case when loan_status = 'Fully Paid' OR loan_status = 'Current' then id →
  END) * 100 / COUNT (id) as Good_Loan_Perc
from financial_loan;
-- Total Count of Good Loan Applications--
select COUNT(id) as Good_Loan_Application
from financial_loan
where loan_status = 'Fully Paid' OR loan_status = 'Current';
-- Good Loan Funded Amounts --
select SUM(total_payment) as Good_Loan_Fund
from financial_loan
```

```
where loan_status IN ('Fully Paid','Current');
-- Bad Loan Percentage --
select COUNT(case when loan_status = 'Charged Off' then id END)* 100 / COUNT (id) as →
  Bad_Loan_Perc
from financial_loan;
-- Total Count of Bad Loan Applications--
select COUNT(id) as Bad_Loan_Application
from financial_loan
where loan_status IN ('Charged Off');
-- Bad Loan Funded Amount --
select SUM(loan_amount) as Bad_Loan_Amount
from financial loan
where loan_status IN ('Charged Off');
-- Bad Loan Received Amount --
select SUM(total_payment) as Bad_Loan_Amount_Received
from financial_loan
where loan_status IN ('Charged Off');
--Total sum of the loan amount received by each state and Ranking them --
SELECT
  address_state,
  SUM(loan_amount) AS total_loan_amount,
  RANK() OVER (ORDER BY SUM(loan_amount) DESC) AS state_rank
  financial_loan
GROUP BY
  address_state;
-- find the ID that has taken the highest loan for each purpose and rank them --
  WITH RankedLoans AS (
  SELECT
    id,
    purpose,
    loan_amount,
    ROW_NUMBER() OVER (PARTITION BY purpose ORDER BY loan_amount DESC) AS purpose_rank
  FROM
    financial_loan
)
SELECT
  id,
  purpose,
  loan amount,
  purpose_rank
```

```
FROM
  RankedLoans
WHERE
  purpose_rank IN ('1','2');
-- find the ID that has taken the highest loan for home_ownership and rank them --
WITH RankedLoan AS (
SELECT id, home_ownership, loan_amount,
ROW_NUMBER() OVER(PARTITION BY home_ownership ORDER BY loan_amount DESC) AS
  Purpose_Rank
FROM financial_loan
SELECT id, home_ownership, loan_amount
FROM RankedLoan
where Purpose_Rank = '1';
--find the relationship between loan status and income--
SELECT
    loan_status,
    AVG(annual_income) AS average_income,
    MIN(annual_income) AS min_income,
    MAX(annual_income) AS max_income,
    COUNT(*) AS total_loans
FROM
    financial_loan
GROUP BY
    loan_status;
-- rank the emp_title based on the total sum of loans for each region
SELECT
    emp_title,
    address_state,
    SUM(loan_amount) AS total_loan_amount,
    RANK() OVER (PARTITION BY emp_title ORDER BY SUM(loan_amount) DESC) AS
      rank_in_region
FROM
    financial_loan
GROUP BY
    emp_title, address_state
ORDER BY
    address_state, rank_in_region;
```