```sql
-- Create Database bank;
Create database bank;

create Table sales_person(
        App_id int ,
        City VARCHAR(100) ,
        State varchar(100) ,
        Branch varchar(50) ,
        RH varchar(100) ,
        CM varchar(100) ,
        Region varchar(50) ,
        RCM varchar(50) ,
        Industry varchar(300) ,
        CDM varchar(100)
);

Create table customer_data(
                App_id int ,
                Disb_Date_LOS date ,
                Anchor_Name varchar (200),
                Product varchar (50) ,
                Tenor_Days int ,
         Interest_Rate int ,
         Total_OD_Limit int ,
         Limit_Utilized int ,
         Available_Limit int ,
         Total_outstanding int ,
         Interest_DPD int ,
         DPD_Interest_Amount int ,
         DPD_Principal_Amount int ,
         Current_Total_OS int ,
         Penal_Amount int ,
         Accured_Interest int ,
         Accured_Overdue_Interest Int ,
         Status_Date date ,
         Dob date ,
         Cash_Collateral_Amount Int
               );

-- Select  Databases
Use Bank;

-- Fetch The All DATA From Seelect TABLE
select * From sales_person;
select * From customer_data;

-- Number OF Total Customer Count
select Count(*) from customer_data;
select Count(*) from sales_person;

-- describe The Coulmn Name And Data Type
Desc sales_person;
Desc customer_data;
```

```
-- Fetch The All Tables Name From Selected Database
Show tables ;


-- Retrieve The All From Customer_data AND Sales_Person
Select *
From customer_data c
join sales_person s using (App_id);

-- Retrieve The Total Customer Count  From Regipon Sales_Person
Select Region , Count(App_id) As Customer_Count  From sales_person
group by Region;


-- Retrieve The Total Active Customer since 2023  And There Total Section
Limit By Bank
-- And Limit_utilized, Available_Limit Product Wise Form Customer_data
select
Product ,Count(App_id) AS Customer , Sum(Total_OD_Limit) AS Section_limit
, Sum(Limit_utilized) As Use_By_Customer , Sum(Available_Limit) As
Available_Limit
From
Customer_data
Where status = "Active" and start_date Like "%2023%"
group by Product;

-- Retrieve The Total Active Customer  And There Total Section Limit By
Bank
-- And Total Limit_utilized, Total Available_Limit Years Wise Form
Customer_data
select
  date_format(disb_Date_LOS, "%Y") As Years ,Count(App_id) AS Customer
, Sum(Total_OD_Limit) AS Section_limit , Sum(Limit_utilized) As
Use_By_Customer , Sum(Available_Limit) As Available_Limit
From
Customer_data
Where status = "Active"
group by Years;

-- Retrieve The Total Expired Customer  And There Total Section Limit By
Bank
-- And Total Limit_utilized, Total Available_Limit Years Wise Form
Customer_data
select
  date_format(disb_Date_LOS, "%Y") As Years ,Count(App_id) AS Customer
, Sum(Total_OD_Limit) AS Section_limit , Sum(Limit_utilized) As
Use_By_Customer , Sum(Available_Limit) As Available_Limit
From
Customer_data
Where status = "Matured"
group by Years;

-- Retrieve The Customer Count Who have limit greater than 0 Find The
Available Limit City Wise From Customer_Data
```

```
Select s.City, Count(c.App_id) As Active_Customer ,
Sum(c.Available_Limit) AS Can_use
From customer_data c inner join sales_person s
ON c.App_id = s.App_id
Where c.Available_Limit >=0 And status = "Active"
group by s.City
order by Can_use desc;

Select * From sales_person;

--  Retrieve All Customer Who Use Limit Over The Section Limit BY City
Select  s.City, Count(C.App_id) As Customer , Sum(c.Available_Limit) AS
Can_use
From customer_data c inner join sales_person s
ON c.App_id = s.App_id
Where c.Available_Limit <=-0
group by s.City
order by Can_use;
select * From customer_data;

-- Fetch The Toatl Interest Againsed  Limit Utilized From Every Years
Select  SUM(Limit_Utilized) As Limit_Utilized
 , date_format(Disb_Date_LOS, "%Y") Years , Sum( Penal_Amount +
Accrued_interest + Accrued_Overdue_interest) As All_interest
From Customer_data
group by Years;

-- Fetch The Total Customer And There Interest , Anchor_Wise
Select Anchor_name ,Count(App_id) As Customer, Sum( Penal_Amount +
Accrued_interest + Accrued_Overdue_interest) As All_interest
From Customer_data
group by Anchor_name
order by All_interest Desc;

-- Retrive The Total Interest Amount And Utilized Angansed Customer
Select App_id ,  Interest_DPD , lIMIT_Utilized, (Penal_Amount +
Accrued_interest + Accrued_Overdue_interest) As All_interest
From Customer_data
Where App_id is not null
order by Interest_DPD;

-- Retrive The Total Interest Amount And Utilized Angansed Customer , And
Finde The Customer Who DPD Under 90 Days
Select App_id ,  Interest_DPD ,  lIMIT_Utilized , (Penal_Amount +
Accrued_interest + Accrued_Overdue_interest) As All_interest
From Customer_data
Where App_id is not null And interest_dpd <=90
order by Interest_DPD ;

-- Retrive The Total Interest Amount And Utilized Angansed Customer , And
Finde The Customer Who DPD More Then 90 Days
Select App_id ,  Interest_DPD ,  (Penal_Amount + Accrued_interest +
Accrued_Overdue_interest) As All_interest
From Customer_data
```

```
Where App_id is not null And interest_dpd >= 91
order by Interest_DPD;

-- Fetch The All Customer And Total Interest , Utilized , Years DPD Equal
To 0
select Interest_DPD ,date_format(Disb_Date_LOS , "%Y") As Years
,(Limit_Utilized), (Penal_Amount + Accrued_interest +
Accrued_Overdue_interest) As All_interest
From customer_data
where Interest_DPD =0;
-- group by Product;

-- Fetch The Customer Maximum Limit Each Product
Select Product , Max(Total_OD_Limit)
From customer_data
group by Product;

-- Fetch The  All About Customer Maximum Limit Each Product From
customer_data
select *
From customer_data
Where (Product , Total_OD_Limit) IN (Select Product , Max(Total_OD_Limit)

            From customer_data

            group by Product);


select
Count(App_id) , s.Industry , Sum(c.Total_OD_Limit) , Sum(c.Limit_Utilized)
, Sum(c.Available_Limit)
From customer_data c inner join sales_person s
Using (App_id)
Where s.Industry  Like "%Food%"
group by Industry;

select
Count(App_id) , s.Industry , Sum(c.Total_OD_Limit) , Sum(c.Limit_Utilized)
, Sum(c.Available_Limit)
From customer_data c inner join sales_person s
Using (App_id)
Where s.Industry Not Like "%Food%"
group by Industry;

-- Find The Active Customer Every Year And Year Wise Section Limit ,
Utilized Limit , Available Limit
select date_format(Start_date , "%Y") As Login_date , Count(App_id)
, Sum(Total_OD_Limit)  As Limit_section_By_Customer,   Sum(Limit_Utilized)
As Limit_Use_By_Customer, Sum(Available_Limit) As Customer_Can_Use_Limit
From customer_data
where Status ="Active"
group by Login_date
order by Login_date;
```

```
-- Fetch The Top Five State  Total Number Of Customer
select
State , Count(App_id) As Customer_Count
From sales_person
group by State
order by Customer_Count desc
Limit 5;

-- Fetch The Customer Count And Create Baket  0_Cusrrent_DPD , 1-15 _DPD ,
16-29_DPD , 30-59_DPD ,  60-89_DPD , 90+DPD
Select
Case
When Interest_DPD = 0 Then "0_Current_DPD"
When Interest_DPD >=1 And Interest_DPD <=15 Then "1-15_DPD"
When Interest_DPD >=16 And Interest_DPD <=29 Then "16-29_DPD"
When Interest_DPD >=30 And Interest_DPD <=59 Then "30-59_DPD"
When Interest_DPD >=60 And Interest_DPD <=89 Then "60-89_DPD"
else "90+DPD"
end DPD_BKT, Count(App_id) As Customer
From CUSTOMER_DATA
group by DPD_BKT;

With Combain_data As
                    (SELECT *
                        From customer_data c
                        join sales_person s
                    Using(App_id))
Select * From Combain_data;

-- Fetch The Recort lIKE Customer behavioral ,Years And Month Wise
With Pivot_table As (
                     Select date_format(start_Date , "%Y")  as Years
                     , date_format(start_Date , "%M") as  Monts
                     , App_id
                     From Customer_data)
Select Years
, Count(Case When Monts = "January" Then App_id else null End) January
, Count(Case When Monts = "February" Then App_id else null End) February
, Count(Case When Monts = "March" Then App_id else null End) March
, Count(Case When Monts = "April" Then App_id else null End) April
, Count(Case When Monts = "May" Then App_id else null End) May
, Count(Case When Monts = "June" Then App_id else null End) June
, Count(Case When Monts = "July" Then App_id else null End) July
, Count(Case When Monts = "August" Then App_id else null End) August
, Count(Case When Monts = "September" Then App_id else null End) September
, Count(Case When Monts = "October" Then App_id else null End) October
, Count(Case When Monts = "November" Then App_id else null End) November
, Count(Case When Monts = "December" Then App_id else null End) December
, Count(App_id) As "Total"
From Pivot_table
group by Years;

-- Fetch The Active Customer Record From Customer Data Since Only 2023
with base_query As
```

```
               (Select *
                , date_format(Start_date , "%Y") As Year_
                , date_format(Start_date , "%M") AS MONTH_
                From
                customer_data
                Where Status = "active" And Start_Date like  "%2023%"
             --   Group by Start_date
                                order by Start_date )
Select  * From base_query;

-- Fetch The Matured Customer Record From Customer Data
with base_query As
               (Select *
                , date_format(Start_date , "%Y") As Year_
                , date_format(Start_date , "%M") AS MONTH_
                From
                customer_data
                Where Status = "Matured"
              --  Group by Start_date
                                order by Start_date )
Select  * From base_query;

-- Fetch The Closed Customer Record From Customer Data
with base_query As
               (Select *
                , date_format(Start_date , "%Y") As Year_
                , date_format(Start_date , "%M") AS MONTH_
                From
                customer_data
                Where Status = "Closed"
               -- Group by Start_date
                                order by Start_date )
Select  * From base_query;
```