Create the following tables:
Orders(Order_no, cust, product, Quantity, amount, Disc)
Customers(Cust_No, Company, Cust_Rep, Credit_Limit)
Sales_Representative (Rep_no,Name, Re_office,Quota, sales)

Note: Orders (cust –foreign key for cust_no from Customer)

Customers(Cust_Rep foreign key for Rep_no from Sales_Representative)

Write a query for following:
1. List for each customer : customer name, their rep's name, their rep's office number.

2. List orders over $25,000 including the name of the salesperson who took the order and the name of the customer who placed it.

3. Find the products which have been sold to TCS.

4. Find company which has been offered maximum discount.

5. Find the sales representatives who work in the same office.

6. Find the credit limit of company and the discount it has received

Step 1: Create Tables

sql

Copy code

```
-- Create Customers table
CREATE TABLE Customers (
    Cust_No INT PRIMARY KEY,
    Company VARCHAR(100),
    Cust_Rep INT,
    Credit_Limit DECIMAL(10, 2),
    FOREIGN KEY (Cust_Rep) REFERENCES Sales_Representative(Rep_no)
);


-- Create Sales_Representative table
CREATE TABLE Sales_Representative (
    Rep_no INT PRIMARY KEY,
    Name VARCHAR(100),
    Re_office VARCHAR(100),
```

```sql
    Quota DECIMAL(10, 2),

    sales DECIMAL(10, 2)

);


-- Create Orders table

CREATE TABLE Orders (

    Order_no INT PRIMARY KEY,

    cust INT,

    product VARCHAR(100),

    Quantity INT,

    amount DECIMAL(10, 2),

    Disc DECIMAL(10, 2),

    FOREIGN KEY (cust) REFERENCES Customers(Cust_No)

);
```

Step 2: Insert Sample Data

Here's how to insert sample data into the tables:

sql

Copy code

```sql
-- Insert data into Sales_Representative table

INSERT INTO Sales_Representative (Rep_no, Name, Re_office, Quota, sales) VALUES

(1, 'John Doe', 'Office1', 50000.00, 30000.00),

(2, 'Jane Smith', 'Office1', 60000.00, 35000.00),

(3, 'Michael Johnson', 'Office2', 45000.00, 20000.00);


-- Insert data into Customers table

INSERT INTO Customers (Cust_No, Company, Cust_Rep, Credit_Limit) VALUES

(101, 'TCS', 1, 100000.00),

(102, 'Infosys', 2, 80000.00),

(103, 'Wipro', 3, 50000.00);


-- Insert data into Orders table
```

INSERT INTO Orders (Order_no, cust, product, Quantity, amount, Disc) VALUES

(1001, 101, 'Product A', 10, 30000.00, 500.00),

(1002, 102, 'Product B', 5, 25000.00, 200.00),

(1003, 103, 'Product C', 20, 40000.00, 1000.00),

(1004, 101, 'Product D', 15, 35000.00, 750.00);

Step 3: Execute Queries

Here are the queries to solve your requirements:

1. **List for each customer: customer name, their rep's name, their rep's office number.**

sql

Copy code

SELECT

   c.Company AS CustomerName,

   sr.Name AS RepName,

   sr.Re_office AS OfficeNumber

FROM

   Customers c

JOIN

   Sales_Representative sr ON c.Cust_Rep = sr.Rep_no;

2. **List orders over $25,000 including the name of the salesperson who took the order and the name of the customer who placed it.**

sql

Copy code

SELECT

   o.Order_no,

   o.amount,

   c.Company AS CustomerName,

   sr.Name AS RepName

FROM

   Orders o

JOIN

   Customers c ON o.cust = c.Cust_No

JOIN

   Sales_Representative sr ON c.Cust_Rep = sr.Rep_no

WHERE

   o.amount > 25000;

     3. **Find the products which have been sold to TCS.**

sql

Copy code

SELECT

   o.product

FROM

   Orders o

JOIN

   Customers c ON o.cust = c.Cust_No

WHERE

   c.Company = 'TCS';

     4. **Find the company which has been offered maximum discount.**

sql

Copy code

SELECT

   c.Company

FROM

   Customers c

JOIN

   Orders o ON c.Cust_No = o.cust

ORDER BY

   o.Disc DESC

LIMIT 1;

     5. **Find the sales representatives who work in the same office.**

sql

Copy code

SELECT

```sql
  sr1.Name AS Rep1,

  sr2.Name AS Rep2,

  sr1.Re_office
FROM
  Sales_Representative sr1
JOIN
  Sales_Representative sr2 ON sr1.Re_office = sr2.Re_office AND sr1.Rep_no <> sr2.Rep_no;
```

6. **Find the credit limit of company and the discount it has received.**

sql

Copy code

```sql
SELECT
  c.Company,

  c.Credit_Limit,

  SUM(o.Disc) AS TotalDiscount
FROM
  Customers c
JOIN
  Orders o ON c.Cust_No = o.cust
GROUP BY
  c.Company, c.Credit_Limit;
```

Summary

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