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, credit limit, rep name serving the customer and rep sales.
2. List all orders showing number and amount, and name and credit limit of customer.
3. Find the product wise sale amount of products which exceeds $12000.
4. Find the names of amount, names of customers and names of representatives who have been involved in the sale of software.
5. Find the credit limit of company and the discount it has received
6. Find the sales representatives who work in the same office.

Step 1: Create Tables

sql

Copy code

```
-- Create Sales_Representative table
CREATE TABLE Sales_Representative (
  Rep_no INT PRIMARY KEY,
  Name VARCHAR(100),
  Re_office VARCHAR(100),
  Quota DECIMAL(10, 2),
  sales DECIMAL(10, 2)
);


-- 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 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

```
-- 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),
(4, 'Emily Davis', 'Office2', 55000.00, 40000.00);

-- 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),
(104, 'HCL', 4, 60000.00);

-- Insert data into Orders table
```

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

(1001, 101, 'Software A', 10, 15000.00, 500.00),

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

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

(1004, 101, 'Software D', 15, 18000.00, 750.00),

(1005, 104, 'Software E', 8, 13000.00, 300.00);

Step 3: Execute Queries

Here are the queries to solve your requirements:

1. **List for each customer: customer name, credit limit, rep name serving the customer, and rep sales.**

sql

Copy code

```
SELECT
  c.Company AS CustomerName,
  c.Credit_Limit,
  sr.Name AS RepName,
  sr.sales AS RepSales
FROM
  Customers c
JOIN
  Sales_Representative sr ON c.Cust_Rep = sr.Rep_no;
```

2. **List all orders showing number and amount, and name and credit limit of the customer.**

sql

Copy code

```
SELECT
  o.Order_no,
  o.amount,
  c.Company AS CustomerName,
  c.Credit_Limit
FROM
  Orders o
```

```
JOIN
  Customers c ON o.cust = c.Cust_No;
```

3. **Find the product-wise sale amount of products which exceeds $12,000.**

```
sql
Copy code
SELECT
  o.product,
  SUM(o.amount) AS TotalSales
FROM
  Orders o
GROUP BY
  o.product
HAVING
  SUM(o.amount) > 12000;
```

4. **Find the names of amount, names of customers, and names of representatives who have been involved in the sale of software.**

```
sql
Copy code
SELECT
  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.product LIKE '%Software%';
```

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

sql

Copy code

```
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;
```

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

sql

Copy code

```
SELECT
  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
WHERE
  sr1.Rep_no <> sr2.Rep_no;
```

Summary

The above SQL commands create the specified tables, insert sample data, and execute various queries based on your requirements. If you have any further questions or need additional modifications, feel free to ask!