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

ANS

1

CREATE TABLE Sales\_Representative (

Rep\_no INT PRIMARY KEY,

Name VARCHAR(50),

Re\_office VARCHAR(50),

Quota DECIMAL(10, 2),

sales DECIMAL(10, 2)

);

CREATE TABLE Customers (

Cust\_No INT PRIMARY KEY,

Company VARCHAR(50),

Cust\_Rep INT,

Credit\_Limit DECIMAL(10, 2),

FOREIGN KEY (Cust\_Rep) REFERENCES Sales\_Representative(Rep\_no)

);

CREATE TABLE Orders (

Order\_no INT PRIMARY KEY,

cust INT,

product VARCHAR(50),

Quantity INT,

amount DECIMAL(10, 2),

Disc DECIMAL(5, 2),

FOREIGN KEY (cust) REFERENCES Customers(Cust\_No)

);

2

-- Insert Sales\_Representative data

INSERT INTO Sales\_Representative (Rep\_no, Name, Re\_office, Quota, sales) VALUES (101, 'John Doe', 'Office1', 50000.00, 60000.00);

INSERT INTO Sales\_Representative (Rep\_no, Name, Re\_office, Quota, sales) VALUES (102, 'Jane Smith', 'Office2', 40000.00, 45000.00);

INSERT INTO Sales\_Representative (Rep\_no, Name, Re\_office, Quota, sales) VALUES (103, 'Michael Brown', 'Office1', 55000.00, 65000.00);

-- Insert Customers data

INSERT INTO Customers (Cust\_No, Company, Cust\_Rep, Credit\_Limit) VALUES (201, 'TCS', 101, 100000.00);

INSERT INTO Customers (Cust\_No, Company, Cust\_Rep, Credit\_Limit) VALUES (202, 'Infosys', 102, 75000.00);

INSERT INTO Customers (Cust\_No, Company, Cust\_Rep, Credit\_Limit) VALUES (203, 'Wipro', 103, 80000.00);

-- Insert Orders data

INSERT INTO Orders (Order\_no, cust, product, Quantity, amount, Disc) VALUES (301, 201, 'Laptop', 5, 25000.00, 10.00);

INSERT INTO Orders (Order\_no, cust, product, Quantity, amount, Disc) VALUES (302, 202, 'Tablet', 3, 9000.00, 5.00);

INSERT INTO Orders (Order\_no, cust, product, Quantity, amount, Disc) VALUES (303, 203, 'Phone', 7, 35000.00, 12.00);

INSERT INTO Orders (Order\_no, cust, product, Quantity, amount, Disc) VALUES (304, 201, 'Monitor', 2, 30000.00, 15.00);

3

SELECT c.Company, s.Name AS Rep\_Name, s.Re\_office

FROM Customers c

JOIN Sales\_Representative s ON c.Cust\_Rep = s.Rep\_no;

4

SELECT o.Order\_no, o.amount, s.Name AS Salesperson, c.Company AS Customer

FROM Orders o

JOIN Customers c ON o.cust = c.Cust\_No

JOIN Sales\_Representative s ON c.Cust\_Rep = s.Rep\_no

WHERE o.amount > 25000;

5

SELECT DISTINCT o.product

FROM Orders o

JOIN Customers c ON o.cust = c.Cust\_No

WHERE c.Company = 'TCS';

6

SELECT c.Company

FROM Customers c

JOIN Orders o ON c.Cust\_No = o.cust

ORDER BY o.Disc DESC

LIMIT 1;

7

SELECT s1.Name AS Rep1, s2.Name AS Rep2, s1.Re\_office

FROM Sales\_Representative s1

JOIN Sales\_Representative s2 ON s1.Re\_office = s2.Re\_office

WHERE s1.Rep\_no != s2.Rep\_no;

8

SELECT c.Company, c.Credit\_Limit, SUM(o.Disc) AS Total\_Discount

FROM Customers c

JOIN Orders o ON c.Cust\_No = o.cust

GROUP BY c.Company;