**SQL Mandatory Assignment 1**

**Problem Statement:**

ABC Fashion is a leading retailer with a vast customer base and a team of dedicated sales representatives. They have a Sales Order Processing System that helps manage customer orders and interactions.

**Tasks to be Performed:**

1. Insert a new record in your Orders table.

INSERT INTO Orders (OrderDate, CustomerID, SalesmanID, Amount)

VALUES ('2024-05-30', 1234, 5678, 1000);

2. Add Primary key constraint for SalesmanId column in Salesman table. Add default constraint for City column in Salesman table. Add Foreign key constraint for SalesmanId column in Customer table. Add not null constraint in CustomerName column for the Customer table.

ALTER TABLE Salesman

ADD CONSTRAINT PK\_Salesman PRIMARY KEY (SalesmanId);

ALTER TABLE Salesman

ADD CONSTRAINT DF\_City DEFAULT 'Unknown' FOR City;

ALTER TABLE Customer

ADD CONSTRAINT FK\_SalesmanId FOREIGN KEY (SalesmanId) REFERENCES Salesman (SalesmanId);

ALTER TABLE Customer

ALTER COLUMN CustomerName SET NOT NULL;

3. Fetch the data where the Customer’s name is ending with ‘N’ also get the purchase amount value greater than 500.

SELECT \*

FROM Orders

WHERE CustomerID IN (

SELECT CustomerID

FROM Customer

WHERE CustomerName LIKE '%N'

)

AND Amount > 500;

4. Using SET operators, retrieve the first result with unique SalesmanId values from two tables, and the other result containing SalesmanId with duplicates from two tables.

SELECT SalesmanId FROM Salesman

UNION

SELECT SalesmanId FROM Orders;

SELECT SalesmanId FROM Salesman

INTERSECT

SELECT SalesmanId FROM Orders;

5. Display the below columns which has the matching data. Orderdate, Salesman Name, Customer Name, Commission, and City which has the range of Purchase Amount between 500 to 1500.

SELECT O.OrderDate, S.Name, C.CustomerName, S.Commission, S.City

FROM Orders O

INNER JOIN Salesman S ON O.SalesmanID = S.SalesmanID

INNER JOIN Customer C ON O.CustomerID = C.CustomerID

WHERE O.Amount BETWEEN 500 AND 1500;

6. Using right join fetch all the results from Salesman and Orders table.

SELECT \*

FROM Salesman S

RIGHT JOIN Orders O ON S.SalesmanID = O.SalesmanID;