SQL Assignment 1

```
-- Assignment 1 & 2
-- Salesman Table Creation
CREATE TABLE Salesman(
    SalesmanId INT,
    Name VARCHAR(255),
    Commission DECIMAL(10, 2),
    City VARCHAR(255),
    Age INT
);
-- Salesman table record insertion
INSERT INTO Salesman(SalesmanId, Name, Commission, City, Age)
VALUES
    (101, 'Joe', 50, 'California', 17), (102, 'Simon', 75, 'Texas', 25),
    (103, 'Jessie', 105, 'Florida', 35),
(104, 'Danny', 100, 'Texas', 22),
    (105, 'Lia', 65, 'New Jersey', 30);
-- Display the records in Salesman table
select * from Salesman;
-- Customer table creation
CREATE TABLE Customer(
    SalesmanId INT,
    CustomerId INT,
    CustomerName VARCHAR(255),
    PurchaseAmount INT,
    );
-- Customer table record insertion
INSERT INTO Customer(SalesmanId, CustomerId, CustomerName, PurchaseAmount)
VALUES
    (101, 2345, 'Andrew', 550),
    (103, 1575, 'Lucky', 4500),
    (104, 2345, 'Andrew', 4000),
    (107, 3747, 'Remona', 2700),
    (110, 4004, 'Julia', 4545);
-- Display the records in Customer table
select * from Customer;
-- Orders table Creation
CREATE TABLE Orders (OrderId int, CustomerId int, SalesmanId int, Orderdate Date, Amount
money);
```

```
-- Orders table record insertion
INSERT INTO Orders Values
(5001,2345,101,'2021-07-01',550),
(5003, 1234, 105, '2022-02-15', 1500)
-- Display the records in Orders table
select * from Orders;
-- Tasks Performed:
-- 1. Insert a new record in your Orders table.
INSERT INTO Orders Values
(5004, 5687, 108, '2020-05-15', 1200)
select * from Orders;
/* 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 Customer name column for the
Customer table.*/
-- Add Primary key constraint for SalesmanId column in Salesman table.
ALTER TABLE Salesman ALTER COLUMN SalesmanId INT NOT NULL;
ALTER TABLE Salesman ADD CONSTRAINT PK Salesman SalesmanId PRIMARY KEY(SalesmanId);
-- Add default constraint for City column in Salesman table.
ALTER TABLE Salesman ADD CONSTRAINT DF_Salesman_City DEFAULT('DefaultCity') FOR City;
-- Add Foreign key constraint for SalesmanId column in Customer table.
ALTER TABLE Customer
ADD CONSTRAINT FK_Customer_SalesmanId
FOREIGN KEY(SalesmanId)
REFERENCES Salesman(SalesmanId);
UPDATE Customer
SET SalesmanId = NULL
WHERE SalesmanId IS NOT NULL
AND SalesmanId NOT IN (SELECT SalesmanId FROM Salesman);
ALTER TABLE Customer
ADD CONSTRAINT FK Customer SalesmanId
FOREIGN KEY (SalesmanId)
REFERENCES Salesman(SalesmanId);
-- Add not null constraint in Customer name column for the Customer table.
ALTER TABLE Customer ALTER COLUMN CustomerName VARCHAR(255) NOT NULL;
```

```
-- 3. Fetch the data where the Customer's name is ending with either 'N' also get the
purchase amount value greater than 500.
select * from Customer;
SELECT *
FROM Customer
WHERE CustomerName LIKE '%N';
select * from Customer where PurchaseAmount > 500;
/* 4. Using SET operators, retrieve the first result with unique SalesmanId values from
tables, and the other result containing SalesmanId without duplicates from two tables. */
-- retrieve the first result with unique SalesmanId values from two tables
SELECT SalesmanId
FROM Salesman
UNION
SELECT SalesmanId
FROM Customer;
-- the other result containing SalesmanId without duplicates from two tables.
SELECT SalesmanId
FROM Salesman
UNION ALL
SELECT SalesmanId
FROM Customer;
/* 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 1500 to 3000. */
select * from Salesman;
SELECT
   O.Orderdate,
   S.Name AS [Salesman Name],
   C.CustomerName AS [Customer Name],
   S.Commission,
   S.City
FROM
   Orders AS 0
JOIN
   Salesman AS S ON O.SalesmanId = S.SalesmanId
JOIN
   Customer AS C ON O.CustomerId = C.CustomerId
WHERE
   C.PurchaseAmount BETWEEN 1500 AND 3000;
```

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

SELECT
S.SalesmanId,
S.Name AS [Salesman Name],
S.Commission,
S.City,
S.Age,
O.OrderId,
O.CustomerId,
O.Orderdate,
O.Amount

FROM
Salesman AS S
```

Orders AS O ON S.SalesmanId = O.SalesmanId;

RIGHT JOIN