SQL Mandatory Assignment 1

Tables & Records for SQL Mandatory Assignment 1 & 2

Salesman Table

SalesmanId	SalesmanName	Commission	City	Age
101	Joe	50	California	17
102	Simon	75	Texas	25
103	Jessie	105	Florida	35
104	Danny	100	Texas	22
105	Lia	65	New Jersy	30

Salesman table creation

```
CREATE TABLE Salesman (
Salesmanld 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);
```

Customer Table

SalesmanId	CustomerId	CustomerName	PurchaseAmount
101	2345	Andrew	550
103	1575	Lucky	4500
104	2345	Andrew	4000
107	3747	Remona	2700
110	4004	Julia	4545

Customer table creation

```
CREATE TABLE Customer (
Salesmanld INT,
Customerld INT,
CustomerName VARCHAR(255),
PurchaseAmount INT,
);
```

Customer table record insertion

```
INSERT INTO Customer (Salesmanld, Customerld, CustomerName, PurchaseAmount)
VALUES
(101, 2345, 'Andrew', 550),
(103, 1575, 'Lucky', 4500),
(104, 2345, 'Andrew', 4000),
(107, 3747, 'Remona', 2700),
(110, 4004, 'Julia', 4545);
```

Orders Table

OrderId	CustomerId	SalesmanId	OrderDate	Amount
5001	2345	101	04-07-2021	550
5003	1234	105	15-02-2022	1500

Orders table Creation

CREATE TABLE Orders (Orderld int, Customerld int, Salesmanld 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)

Tasks to be Performed:

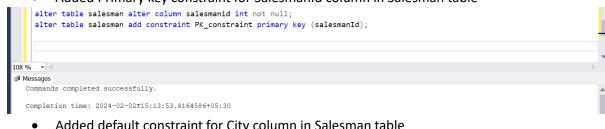
- 1. Insert a new record in your Orders table.
 - A new record is inserted into orders table

```
insert into orders values(5006,4322,111,'2023-12-16',3000);
108 %

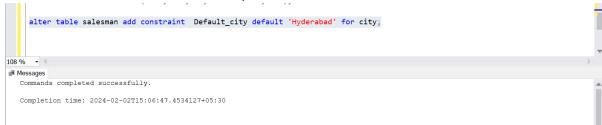
    Messages

  (1 row affected)
  Completion time: 2024-02-02T15:01:10.5565943+05:30
```

- 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.
 - Added Primary key constraint for SalesmanId column in Salesman table



Added default constraint for City column in Salesman table



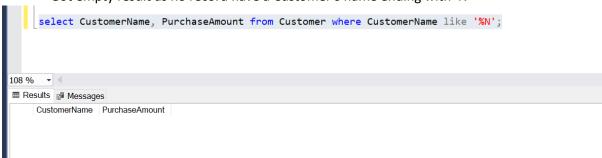
Added Foreign key constraint for SalesmanId column in Customer table

```
alter table Customer
   alter column PurchaseAmount int not null;
    ALTER TABLE Customer
    add CONSTRAINT pk_purchaseamount Primary Key (PurchaseAmount);
    ALTER TABLE Customer with nocheck
    ADD FOREIGN KEY (SalesmanId) REFERENCES Salesman(SalesmanId);
108 %
Completion time: 2024-02-02T19:43:20.0307016+05:30
```

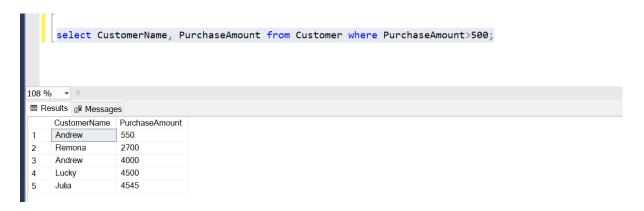
• Add not null constraint in Customer_name column for the Customer table



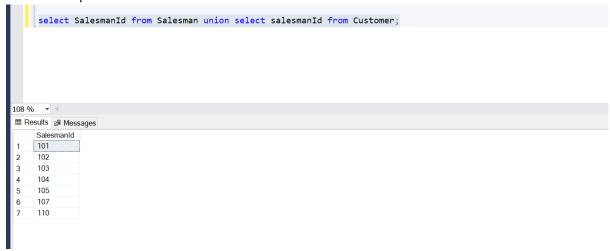
- 3. Fetch the data where the Customer's name is ending with 'N' also get the purchase amount value greater than 500.
 - Got empty result as no record have a Customer's name ending with 'N'



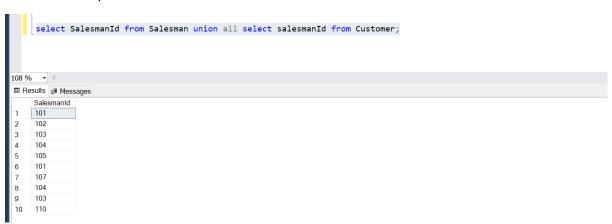
• got the purchase amount values greater than 500.



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



• with duplicates from two table



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.



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

