

**LAB 9**

**CODE:**

Create database online\_shop;

use online\_shop;

CREATE TABLE Customers (

Customer\_ID INT PRIMARY KEY,

Customer\_Name VARCHAR(30),

Contact\_Number VARCHAR(15),

Address VARCHAR(100)

);

CREATE TABLE Categories (

Category\_ID INT PRIMARY KEY,

Category\_Name VARCHAR(50)

);

CREATE TABLE Products (

Product\_ID INT PRIMARY KEY,

Product\_Name VARCHAR(50),

Supplier\_ID INT,

Category\_ID INT,

Product\_Price DECIMAL(10, 2),

Quantity INT,

FOREIGN KEY (Category\_ID) REFERENCES Categories(Category\_ID),

FOREIGN KEY (Supplier\_ID) REFERENCES Suppliers(Supplier\_ID)

);

CREATE TABLE Suppliers (

Supplier\_ID INT PRIMARY KEY,

Supplier\_Name VARCHAR(25),

Contact\_Number VARCHAR(15),

Address VARCHAR(100)

);

CREATE TABLE Orders (

Order\_ID INT PRIMARY KEY,

Customer\_ID INT,

Order\_Date DATE,

Status VARCHAR(50),

FOREIGN KEY (Customer\_ID) REFERENCES Customers(Customer\_ID)

);

CREATE TABLE OrderDetails (

OrderDetail\_ID INT PRIMARY KEY,

Order\_ID INT,

Product\_ID INT,

Quantity INT,

Product\_Price DECIMAL(10, 2),

FOREIGN KEY (Order\_ID) REFERENCES Orders(Order\_ID),

FOREIGN KEY (Product\_ID) REFERENCES Products(Product\_ID)

);

INSERT INTO Customers (Customer\_ID, Customer\_Name, Contact\_Number, Address)

VALUES

(1, 'TAYYABA', '09-87898', 'ISB'),

(2, 'AYESHA', '89-8766', 'ISB'),

(3,'EMAAN','09-8765','RWP'),

(4,'SHAFIA','98-5667','LAHORE'),

(5,'AMNA','987-5678','KARACHI');

Select \* From Customers;

INSERT INTO Categories (Category\_ID, Category\_Name)

VALUES

(1, 'Electronics'),

(2, 'Books'),

(3, 'Food'),

(4, 'Kitchen'),

(5, 'Makeup');

Select \* From Categories;

INSERT INTO Suppliers (Supplier\_ID, Supplier\_Name, Contact\_Number, Address)

VALUES

(1, 'Tech Supplier', '12-677', 'USA'),

(2, 'Amazon', '98-678','UK'),

(3, 'Daraz', '57-778', 'ISB'),

(4, 'Temu' , '78-5677' , 'China'),

(5, 'Amazon', '4676-776' , 'RWP');

Select \* From Suppliers;

INSERT INTO Products (Product\_ID, Product\_Name, Supplier\_ID, Category\_ID, Product\_Price, Quantity)

VALUES

(1, 'Smartphone', 1, 1, 699.99, 50),

(2, 'Laptop', 1, 1, 999.99, 30),

(3, 'E-Book Reader', 1, 2, 129.99, 100),

(4, 'Milk', 4, 3, 67.98,190),

(5, 'EyeLiner', 5, 5, 100.9, 200);

Select \* From Products;

INSERT INTO Orders (Order\_ID, Customer\_ID, Order\_Date, Status)

VALUES

(1, 1, '2024-01-10', 'Shipped'),

(2, 2, '2024-01-11', 'Processing'),

(3, 1, '2024-06-19' , 'Processing'),

(4, 3, '2024-09-17' , 'Shipped' ),

(5, 4, '2024-11-27' , 'Processing' );

Select \* From Orders;

INSERT INTO OrderDetails (OrderDetail\_ID, Order\_ID, Product\_ID, Quantity, Product\_Price)

VALUES

(1, 1, 1, 2, 699.99),

(2, 1, 3, 1, 129.99),

(3, 2, 2, 1, 999.99),

(4, 3, 2, 2, 799.99),

(5, 4, 4, 1, 399.99);

Select \* From OrderDetails;

SELECT O.Order\_Date, C.Customer\_Name

FROM Orders AS O

INNER JOIN Customers AS C

ON O.Customer\_ID = C.Customer\_ID;

SELECT P.Product\_Name, CT.Category\_Name

FROM Products AS P

LEFT JOIN Categories AS CT

ON P.Category\_ID = CT.Category\_ID;

SELECT OD.Quantity, OD.Product\_Price, PD.Product\_Name

FROM OrderDetails AS OD

Inner JOIN Products AS PD

ON OD.Product\_ID = PD.Product\_ID;

SELECT P.Product\_Name, CT.Category\_Name

FROM Products AS P

Right JOIN Categories AS CT

ON P.Category\_ID = CT.Category\_ID;

SELECT P.Product\_Name, S.Supplier\_Name, S.Contact\_Number

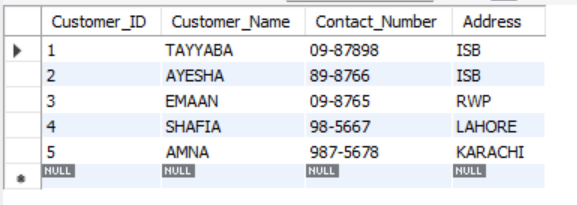
FROM Products AS P

RIGHT JOIN Suppliers AS S

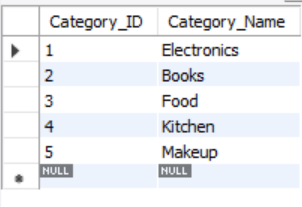
ON P.Supplier\_ID = S.Supplier\_ID;

**TABLES:**

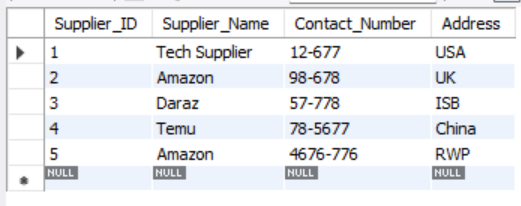
1. **Customers:**

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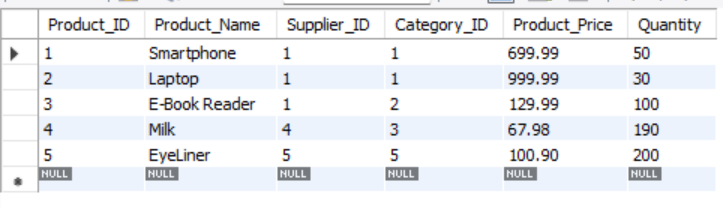
1. **Categories:**

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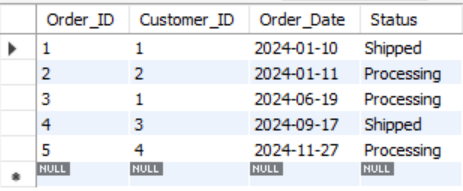
1. **Products:**

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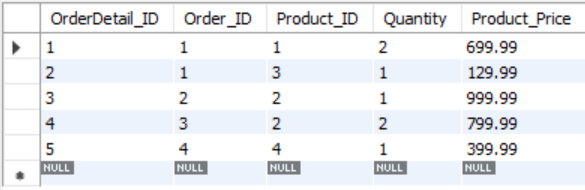
1. **Suppliers:**

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1. **Orders:**

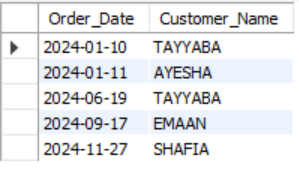
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1. **OrderDetails:**

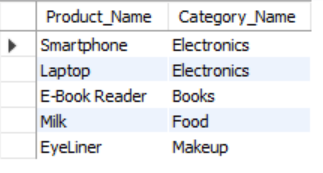
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**TASKS:**

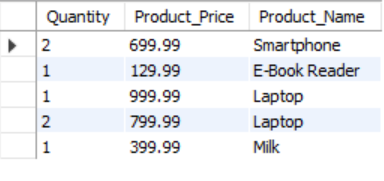
**TASK 1:**

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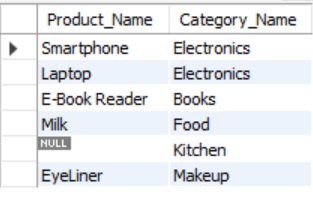
**TASK 2:**

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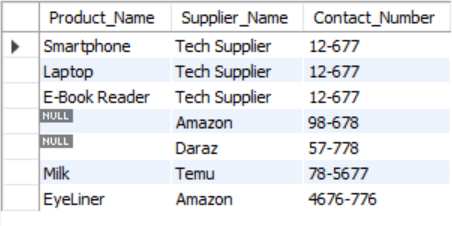
**TASK 3:**

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**TASK 4:**

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**TASK 5:**

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