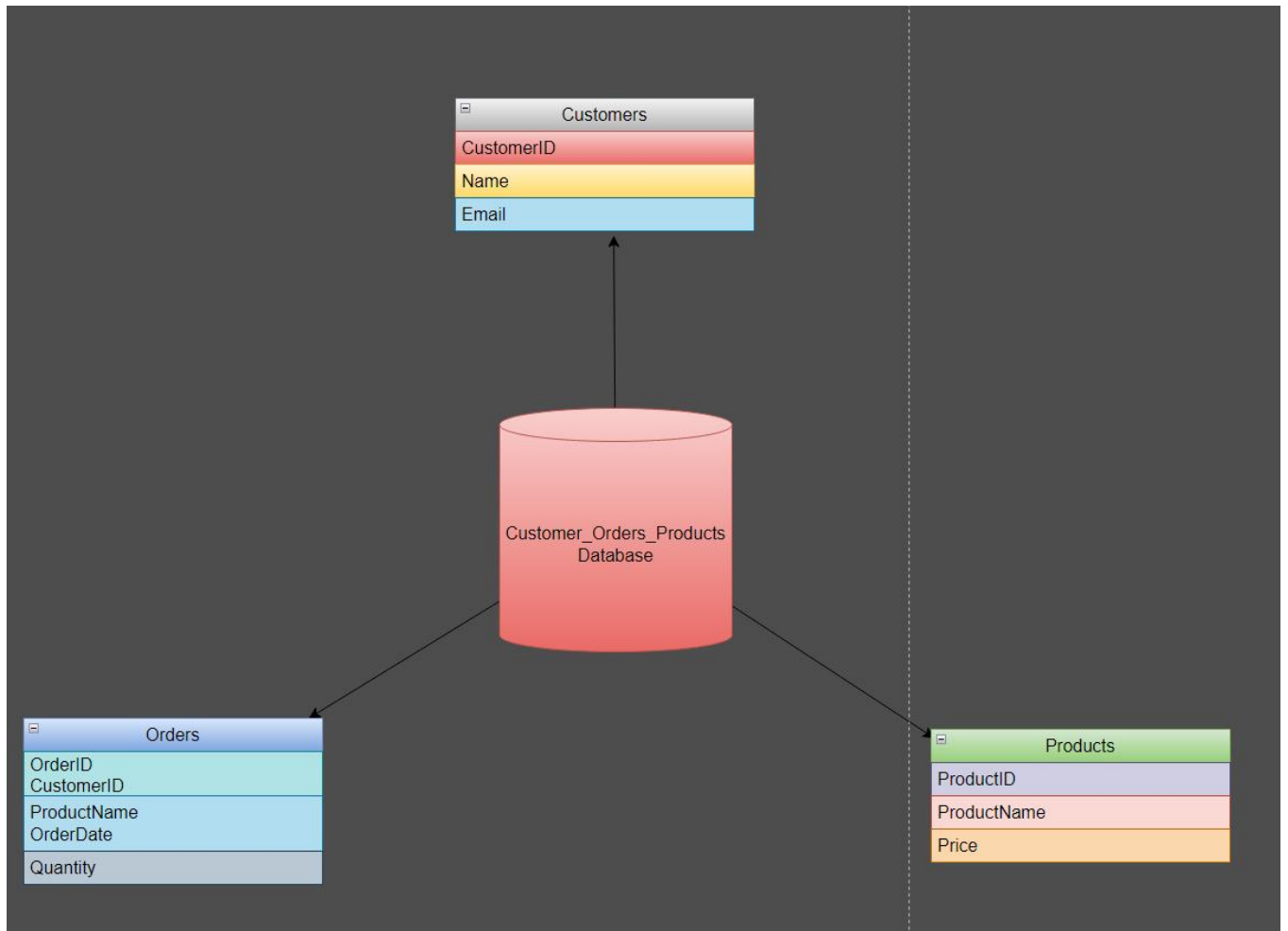


QUESTIONS



Let's Create One Database name as Customers_Orders_Products

Create three tables called as

Customers

Orders

Products

Insert atleast 10 Records in it

Records are

```
CREATE TABLE Customers (  
    CustomerID INT PRIMARY KEY,  
    Name VARCHAR(50),  
    Email VARCHAR(100)  
);
```

```
INSERT INTO Customers (CustomerID, Name, Email)  
VALUES  
(1, 'John Doe', 'johndoe@example.com'),  
(2, 'Jane Smith', 'janesmith@example.com'),  
(3, 'Robert Johnson', 'robertjohnson@example.com'),  
(4, 'Emily Brown', 'emilybrown@example.com'),  
(5, 'Michael Davis', 'michaeldavis@example.com'),  
(6, 'Sarah Wilson', 'sarahwilson@example.com'),  
(7, 'David Thompson', 'davidthompson@example.com'),  
(8, 'Jessica Lee', 'jessicalee@example.com'),  
(9, 'William Turner', 'williamturner@example.com'),  
(10, 'Olivia Martinez', 'oliviamartinez@example.com');
```

```
CREATE TABLE Orders (  
    OrderID INT PRIMARY KEY,  
    CustomerID INT,  
    ProductName VARCHAR(50),  
    OrderDate DATE,
```

Quantity INT

);

INSERT INTO Orders (OrderID, CustomerID, ProductName, OrderDate, Quantity)

VALUES

(1, 1, 'Product A', '2023-07-01', 5),

(2, 2, 'Product B', '2023-07-02', 3),

(3, 3, 'Product C', '2023-07-03', 2),

(4, 4, 'Product A', '2023-07-04', 1),

(5, 5, 'Product B', '2023-07-05', 4),

(6, 6, 'Product C', '2023-07-06', 2),

(7, 7, 'Product A', '2023-07-07', 3),

(8, 8, 'Product B', '2023-07-08', 2),

(9, 9, 'Product C', '2023-07-09', 5),

(10, 10, 'Product A', '2023-07-10', 1);

CREATE TABLE Products (

ProductID INT PRIMARY KEY,

ProductName VARCHAR(50),

Price DECIMAL(10, 2)

);

```
INSERT INTO Products (ProductID, ProductName, Price)
```

```
VALUES
```

```
(1, 'Product A', 10.99),
```

```
(2, 'Product B', 8.99),
```

```
(3, 'Product C', 5.99),
```

```
(4, 'Product D', 12.99),
```

```
(5, 'Product E', 7.99),
```

```
(6, 'Product F', 6.99),
```

```
(7, 'Product G', 9.99),
```

```
(8, 'Product H', 11.99),
```

```
(9, 'Product I', 14.99),
```

```
(10, 'Product J', 4.99);
```

After Creating tables Solve Following tasks:

Task 1 :-

1. Write a query to retrieve all records from the Customers table.
2. Write a query to retrieve the names and email addresses of customers whose names start with 'J'.

3. Write a query to retrieve the order details (OrderID, ProductName, Quantity) for all orders.
4. Write a query to calculate the total quantity of products ordered.
5. Write a query to retrieve the names of customers who have placed an order.
6. Write a query to retrieve the products with a price greater than \$10.00.
7. Write a query to retrieve the customer name and order date for all orders placed on or after '2023-07-05'.
8. Write a query to calculate the average price of all products.
9. Write a query to retrieve the customer names along with the total quantity of products they have ordered.
10. Write a query to retrieve the products that have not been ordered.

Task 2 :-

1. Write a query to retrieve the top 5 customers who have placed the highest total quantity of orders.
2. Write a query to calculate the average price of products for each product category.
3. Write a query to retrieve the customers who have not placed any orders.
4. Write a query to retrieve the order details (OrderID, ProductName, Quantity) for orders placed by customers whose names start with 'M'.
5. Write a query to calculate the total revenue generated from all orders.
6. Write a query to retrieve the customer names along with the total revenue generated from their orders.
7. Write a query to retrieve the customers who have placed at least one order for each product category.
8. Write a query to retrieve the customers who have placed orders on consecutive days.
9. Write a query to retrieve the top 3 products with the highest average quantity ordered.
10. Write a query to calculate the percentage of orders that have a quantity greater than the average quantity.

Task 3:-

1. Write a query to retrieve the customers who have placed orders for all products.
2. Write a query to retrieve the products that have been ordered by all customers.
3. Write a query to calculate the total revenue generated from orders placed in each month.

4. Write a query to retrieve the products that have been ordered by more than 50% of the customers.
5. Write a query to retrieve the top 5 customers who have spent the highest amount of money on orders.
6. **Write a query to calculate the running total of order quantities for each customer.**
7. Write a query to retrieve the top 3 most recent orders for each customer.
8. Write a query to calculate the total revenue generated by each customer in the last 30 days.
9. Write a query to retrieve the customers who have placed orders for at least two different product categories.
10. **Write a query to calculate the average revenue per order for each customer.**
11. Write a query to retrieve the customers who have placed orders for every month of a specific year.
12. Write a query to retrieve the customers who have placed orders for a specific product in consecutive months.
13. Write a query to retrieve the products that have been ordered by a specific customer at least twice.