Customers_Orders_Products_SQL

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

INSERT INTO Customers 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 Products (
ProductID INT PRIMARY KEY,
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ProductName VARCHAR (50) not null unique,
Price DECIMAL (10, 2)
);
INSERT INTO Products 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);

CREATE TABLE Orders (
  OrderID INT PRIMARY KEY,
  CustomerID INT REFERENCES Customers,
  ProductName VARCHAR(50) references
products(productname),
  OrderDate DATE,
  Quantity INT
```

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);
INSERT INTO Orders 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);
```

TASK 1:-

1. select * from Customers

2.SELECT name,email from customers where name like 'J%'

3.select orderid,productname,quantity from orders

4.SELECT COUNT(quantity) from orders

5.select name from orders,Customers where Customers.customerid=orders.customerid

6.select productname from products where price>=10

7.select name,orderdate from customers,orders where Customers.customerid=orders.customerid and orderdate >'2023-07-05';

8.SELECT avg(price) from products;

9.SELECT name,quantity from customers,orders where Customers.customerid=orders.customerid;

10.Select productname from products where productname not in(Select productname from orders);

TASK:-

1) select top 5 customers.CustomerID,name from customers,orders where customers.CustomerID=Orders.CustomerID order by Quantity desc;

OR

select top 5 CustomerID orders order by Quantity desc;

2)SELECT productname,avg(price) from products GROUP BY productname

3)Select customerid from customers where customerid not in(Select customerid from orders)

4)select orderid,productname,quantity from orders,customers where Customers.customerid=orders.customerid and customers.name like 'M%'

5)select (price*quantity) from orders,products where Orders. productname=products. Productname;

6) select name, (Quantity* Price) as revenue from Customers, Orders, Products where Customers.CustomerID=Orders.OrderID and Products.ProductName=Orders.ProductName;

7)select customerid from orders where quantity>=1

9) select top 3 productname, avg(Quantity) from Orders group by ProductName order by avg(Quantity) desc;

10) alter table orders alter column quantity decimal(3,2);

select orderid, concat((quantity/(select sum(quantity)from orders)*100),'%') as percentage from orders where Quantity>(select avg(Quantity) from orders);