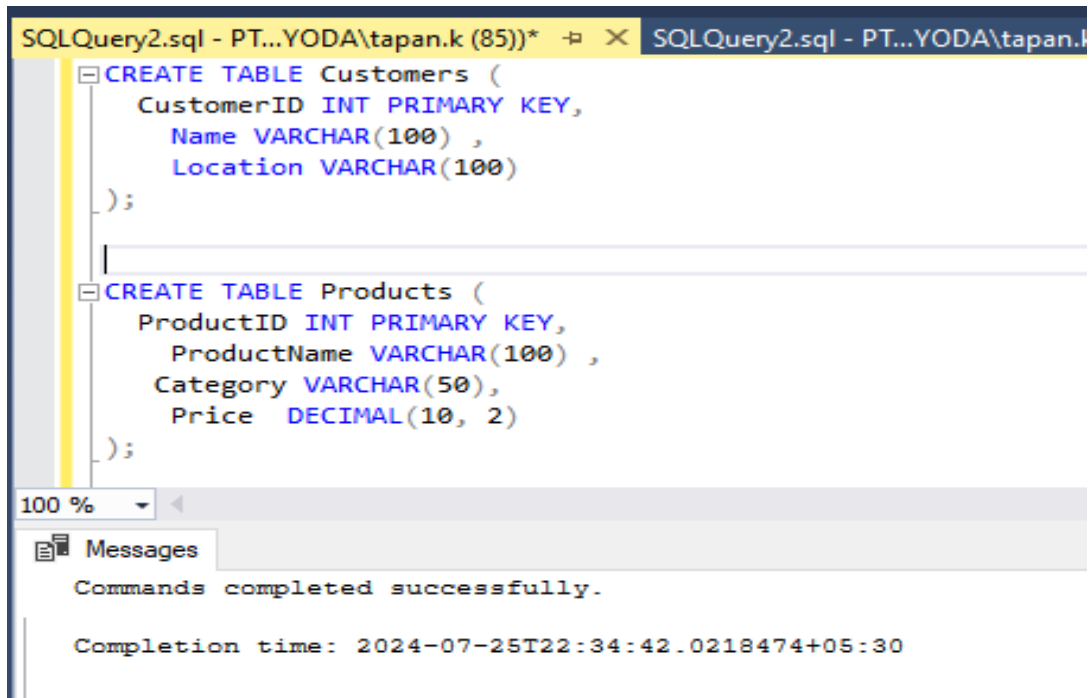


A)To create customer details,order, order details, product details Tables for for ECOMMERCE

Answer:-

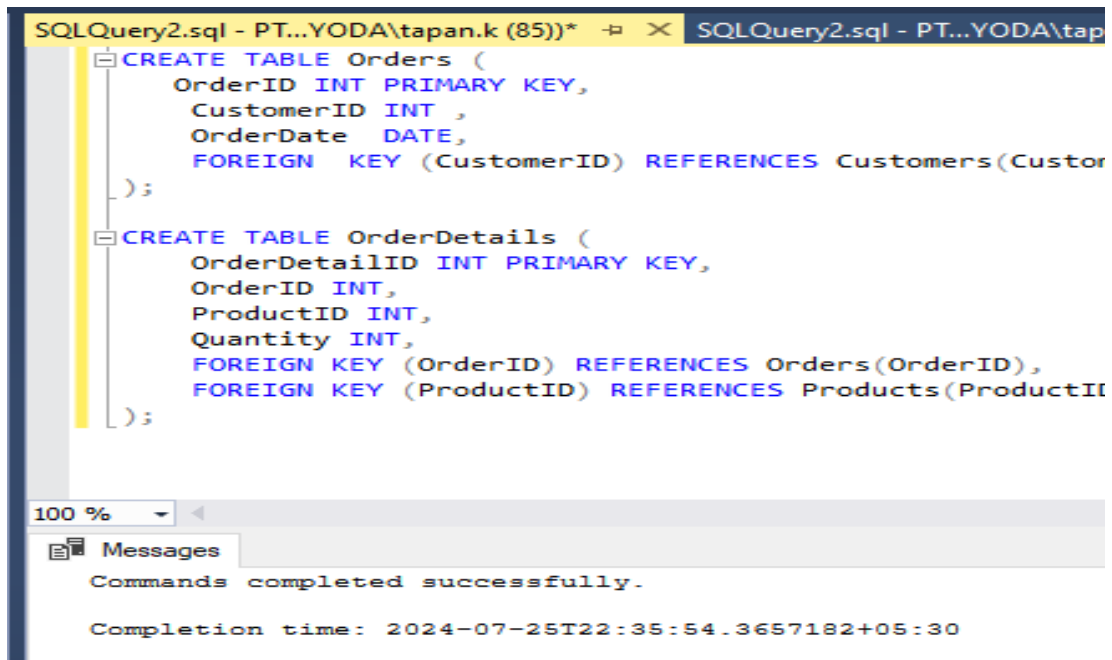


The screenshot shows a SQL Query Editor window with two tabs. The active tab contains the following SQL code:

```
CREATE TABLE Customers (  
    CustomerID INT PRIMARY KEY,  
    Name VARCHAR(100) ,  
    Location VARCHAR(100)  
);  
  
CREATE TABLE Products (  
    ProductID INT PRIMARY KEY,  
    ProductName VARCHAR(100) ,  
    Category VARCHAR(50),  
    Price DECIMAL(10, 2)  
);
```

Below the code editor, the 'Messages' pane shows the following output:

```
Commands completed successfully.  
  
Completion time: 2024-07-25T22:34:42.0218474+05:30
```



The screenshot shows a SQL Query Editor window with two tabs. The active tab contains the following SQL code:

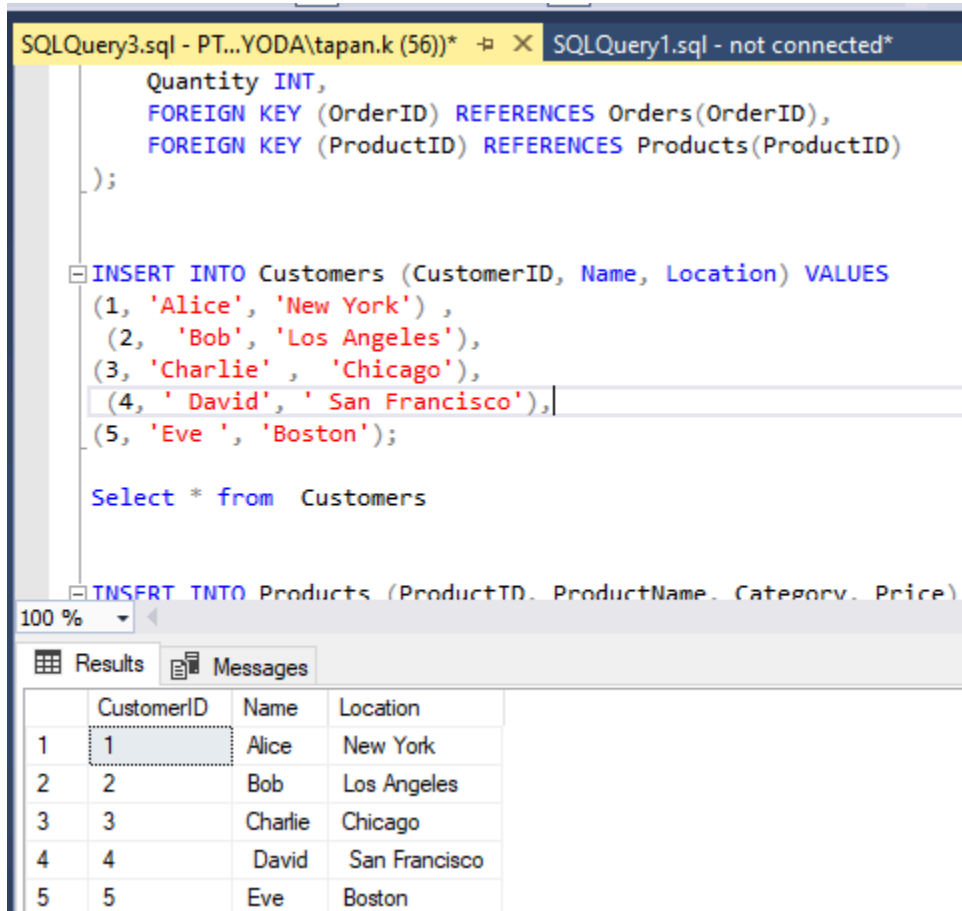
```
CREATE TABLE Orders (  
    OrderID INT PRIMARY KEY,  
    CustomerID INT ,  
    OrderDate DATE,  
    FOREIGN KEY (CustomerID) REFERENCES Customers(Custor  
);  
  
CREATE TABLE OrderDetails (  
    OrderDetailID INT PRIMARY KEY,  
    OrderID INT,  
    ProductID INT,  
    Quantity INT,  
    FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),  
    FOREIGN KEY (ProductID) REFERENCES Products(ProductID)  
);
```

Below the code editor, the 'Messages' pane shows the following output:

```
Commands completed successfully.  
  
Completion time: 2024-07-25T22:35:54.3657182+05:30
```

B) Insert sample data with categories for products, location for customers

Answer:-



The screenshot shows a SQL Server Enterprise Manager window with two tabs: 'SQLQuery3.sql - PT...YODA\tapan.k (56))\*' and 'SQLQuery1.sql - not connected\*'. The active tab contains the following SQL code:

```
Quantity INT,  
FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),  
FOREIGN KEY (ProductID) REFERENCES Products(ProductID)  
);  
  
INSERT INTO Customers (CustomerID, Name, Location) VALUES  
(1, 'Alice', 'New York') ,  
(2, 'Bob', 'Los Angeles'),  
(3, 'Charlie', 'Chicago'),  
(4, 'David', 'San Francisco'),  
(5, 'Eve', 'Boston');  
  
Select * from Customers  
  
INSERT INTO Products (ProductID, ProductName, Category, Price)
```

Below the code, the 'Results' tab is selected, displaying a table with 5 rows and 4 columns: CustomerID, Name, Location, and an unnamed column. The data is as follows:

	CustomerID	Name	Location
1	1	Alice	New York
2	2	Bob	Los Angeles
3	3	Charlie	Chicago
4	4	David	San Francisco
5	5	Eve	Boston

1.Fetch all customers and display if there are any order names?

Answer:-

SQLQuery3.sql - PT...YODA\tapan.k (56))\* SQLQuery1.sql - not co

```

(3, 2, 3, 1),
(4, 3, 4, 3);

Select * from OrderDetails
SELECT
    c.Name,
    p.ProductName
FROM
    Customers c
LEFT JOIN
    Orders o ON c.CustomerID = o.CustomerID
LEFT JOIN
    OrderDetails od ON o.OrderID = od.OrderID
LEFT JOIN
    Products p ON od.ProductID = p.ProductID;

```

100 %

Results Messages

	Name	ProductName
1	Alice	Mobile Phone
2	Alice	Speaker
3	Bob	Laptop
4	Charlie	Book
5	David	NULL
6	Eve	NULL

2.Fetch all the order names placed from particular location?

SQLQuery3.sql - PT...YODA\tapan.k (56))\* SQLQue

```

OrderDetails od ON o.OrderID = od.O
LEFT JOIN
    Products p ON od.ProductID = p.Prod

SELECT p.ProductName
FROM Customers c
JOIN Orders o ON c.CustomerID = o.Custo
JOIN OrderDetails od ON o.OrderID = od.
JOIN Products p ON od.ProductID = p.Pro
WHERE c.Location = 'New York';

SELECT MAX(Price) AS MaxPrice
FROM Products
WHERE Category = 'Electronics';

```

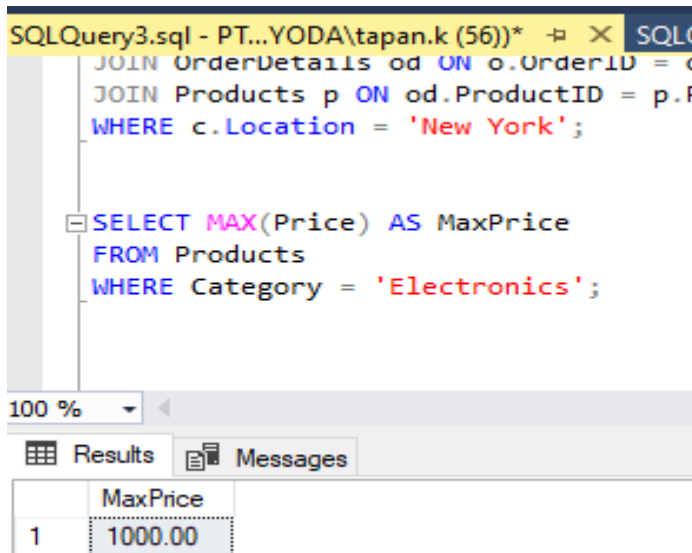
100 %

Results Messages

	ProductName
1	Mobile Phone
2	Speaker

3. what is the max price of products from particular category?

Answer:-



The screenshot shows a SQL query window with the following text:

```
SQLQuery3.sql - PT...YODA\tapan.k (56))*  X SQLC
JOIN OrderDetails od ON o.OrderID = o
JOIN Products p ON od.ProductID = p.P
WHERE c.Location = 'New York';

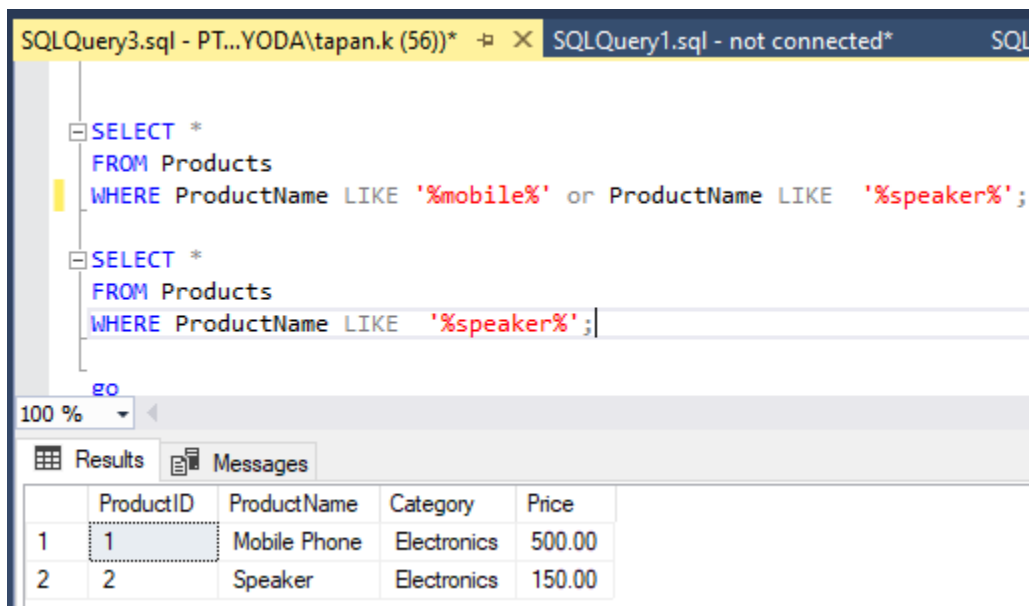
SELECT MAX(Price) AS MaxPrice
FROM Products
WHERE Category = 'Electronics';
```

Below the query, the 'Results' tab is active, displaying a single row of data:

	MaxPrice
1	1000.00

4. Display any product with the productname as like mobile, speaker?

Answer:-



The screenshot shows two SQL queries in a window. The first query is:

```
SQLQuery3.sql - PT...YODA\tapan.k (56))*  X SQLQuery1.sql - not connected*  SQL
SELECT *
FROM Products
WHERE ProductName LIKE '%mobile%' or ProductName LIKE '%speaker%';
```

The second query is:

```
SELECT *
FROM Products
WHERE ProductName LIKE '%speaker%';
```

Below the queries, the 'Results' tab is active, displaying two rows of data:

	ProductID	ProductName	Category	Price
1	1	Mobile Phone	Electronics	500.00
2	2	Speaker	Electronics	150.00

5. Create a function that calculate 10%gst from original price?

Answer:-

```
SQLQuery3.sql - PT...YODA\tapan.k (56))* X SQLQuery1.sql - not connected*
go
CREATE FUNCTION CalculateGST (@OriginalPrice DECIMAL(10, 2))
RETURNS DECIMAL(10, 2)
AS
BEGIN
    RETURN @OriginalPrice * 0.10;
END;
go
100 %
Messages
Commands completed successfully.
```

6. Create stored procedure that increases all the product prices by 100. Ensure Atomicity?

Answer:-

```
SQLQuery3.sql - PT...YODA\tapan.k (56))* X SQLQuery1.sql - not connected*
go
SELECT dbo.CalculateGST(500) AS GSTAmount;
go
CREATE PROCEDURE IncreaseProductPrices
AS
BEGIN
    UPDATE Products
    SET Price = Price + 100;
END;
100 %
Messages
Commands completed successfully.
```