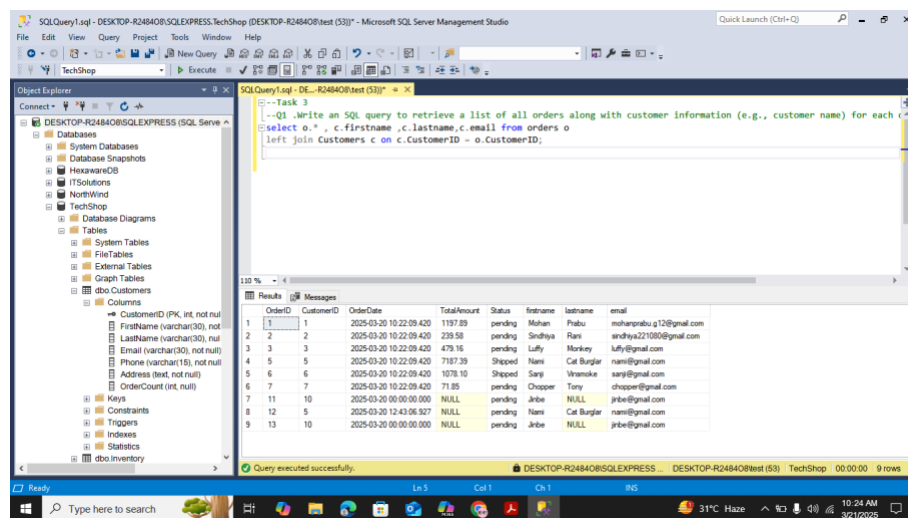


Hexaware Training Assignment

TechShop

Task 3

Question 1 -- Write an SQL query to retrieve a list of all orders along with customer information (e.g., customer name) for each order.



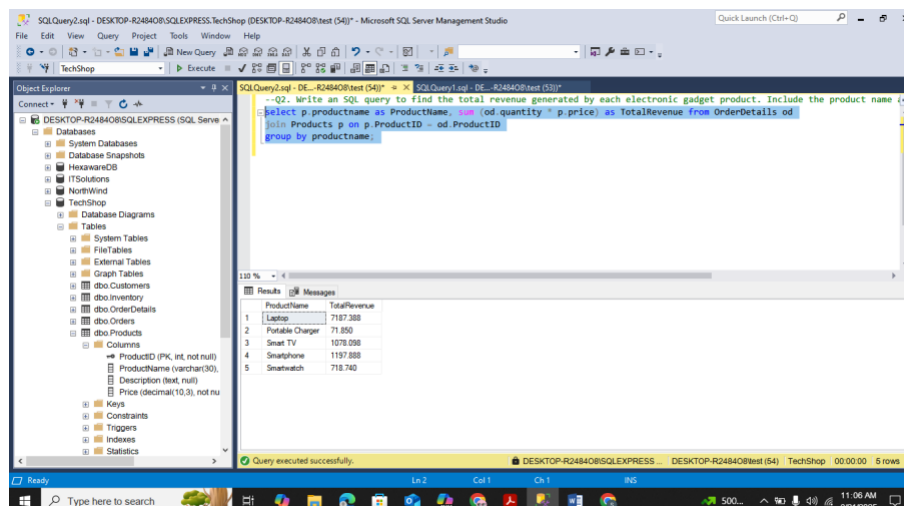
The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'TechShop' database selected. The right pane shows a query window with the following SQL code:

```
--Task 3
--Q1. Write an SQL query to retrieve a list of all orders along with customer information (e.g., customer name) for each order.
select o.*, c.firstname, c.lastname, c.email from orders o
left join Customers c on c.CustomerID = o.CustomerID;
```

The 'Results' pane displays the following data:

OrderID	CustomerID	OrderDate	TotalAmount	Status	Firstname	Lastname	email
1	1	2025-03-20 10:22:09.420	1197.89	pending	Mohan	Prabu	mohanprabu.g12@gmail.com
2	2	2025-03-20 10:22:09.420	239.58	pending	Srinidhi	Ravi	sridhys27109@gmail.com
3	3	2025-03-20 10:22:09.420	479.16	pending	Luffy	Monkey	luffy@gmail.com
4	5	2025-03-20 10:22:09.420	7187.39	Shipped	Nani	Cal Burglar	nani@gmail.com
5	6	2025-03-20 10:22:09.420	1076.10	Shipped	Saraj	Vramoke	saraj@gmail.com
6	7	2025-03-20 10:22:09.420	71.85	pending	Chopper	Tony	chopper@gmail.com
7	11	2025-03-20 00:00:00.000	NULL	pending	Jirbe	NULL	jirbe@gmail.com
8	12	2025-03-20 12:43:06.307	NULL	pending	Nani	Cal Burglar	nani@gmail.com
9	13	2025-03-20 00:00:00.000	NULL	pending	Jirbe	NULL	jirbe@gmail.com

Question 2-- Write an SQL query to find the total revenue generated by each electronic gadget product. Include the product name and the total revenue.



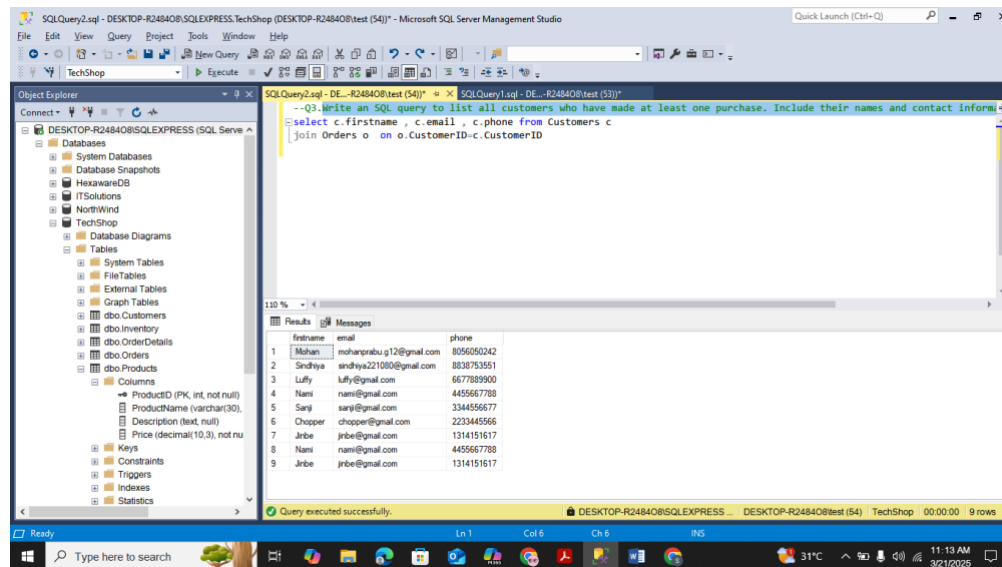
The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'TechShop' database selected. The right pane shows a query window with the following SQL code:

```
--Q2. Write an SQL query to find the total revenue generated by each electronic gadget product. Include the product name.
select p.productname as ProductName, sum(od.quantity * p.price) as TotalRevenue from OrderDetails od
join Products p on p.ProductID = od.ProductID
group by productname;
```

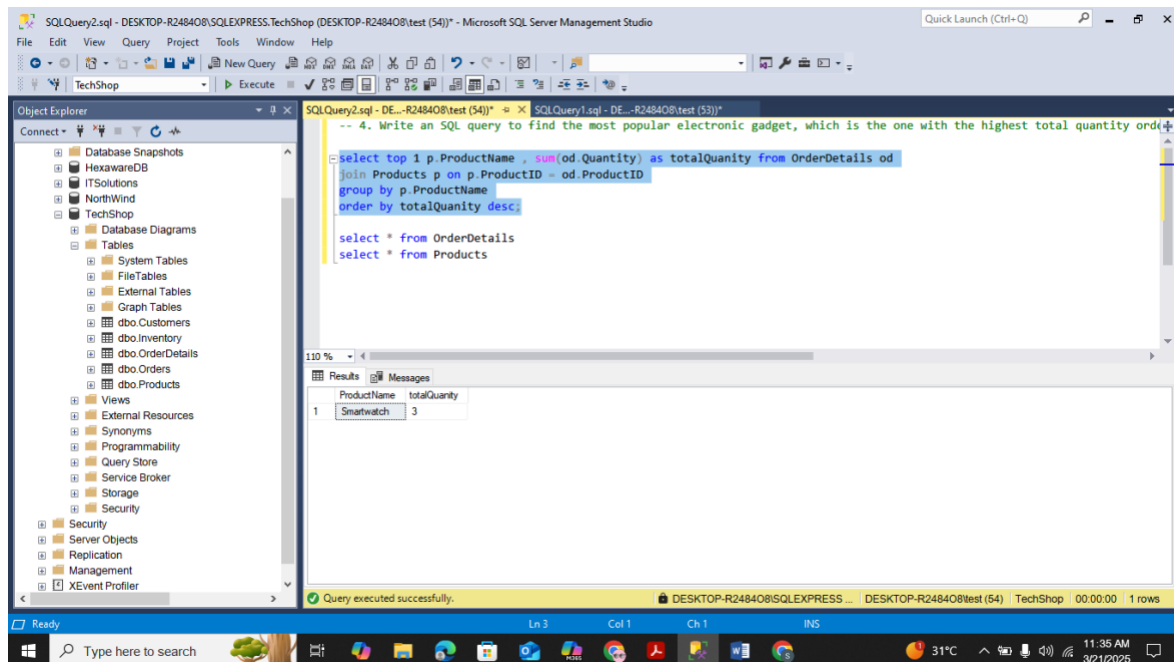
The 'Results' pane displays the following data:

ProductName	TotalRevenue
Laptop	7187.389
Portable Charger	71.850
Smart TV	1076.106
Smartphone	1197.889
Smartwatch	718.740

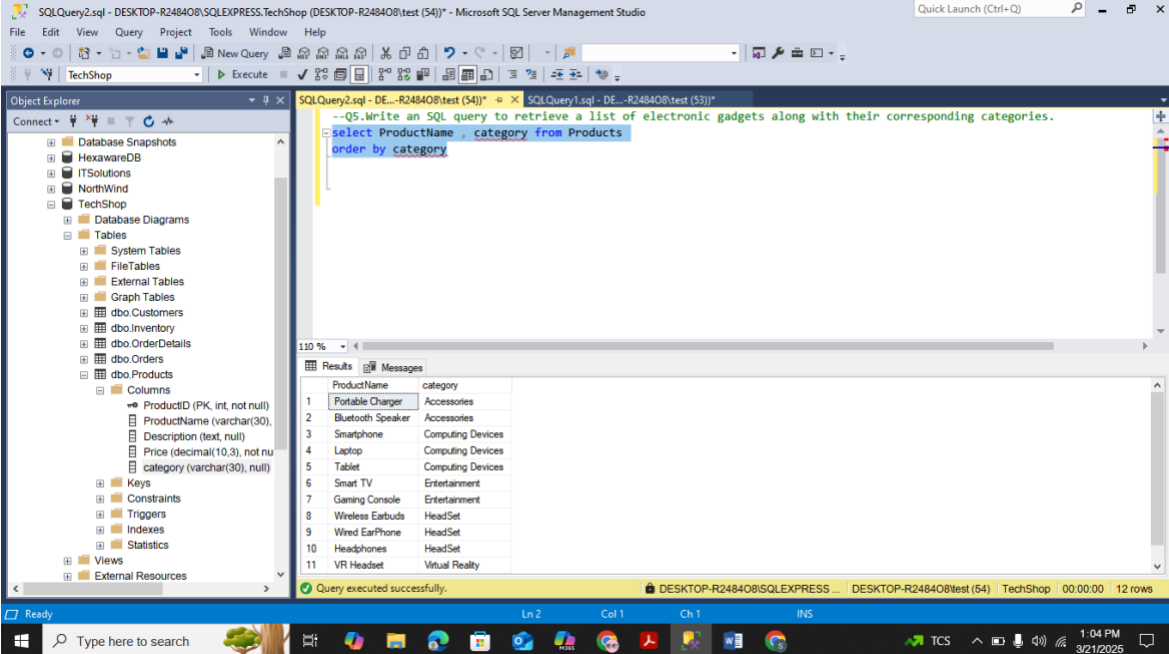
Question 3 -- Write an SQL query to list all customers who have made at least one purchase. Include their names and contact information.



Question 4 -- Write an SQL query to find the most popular electronic gadget, which is the one with the highest total quantity ordered. Include the product name and the total quantity ordered.



Question 5 – Write an SQL query to retrieve a list of electronic gadgets along with their corresponding categories.



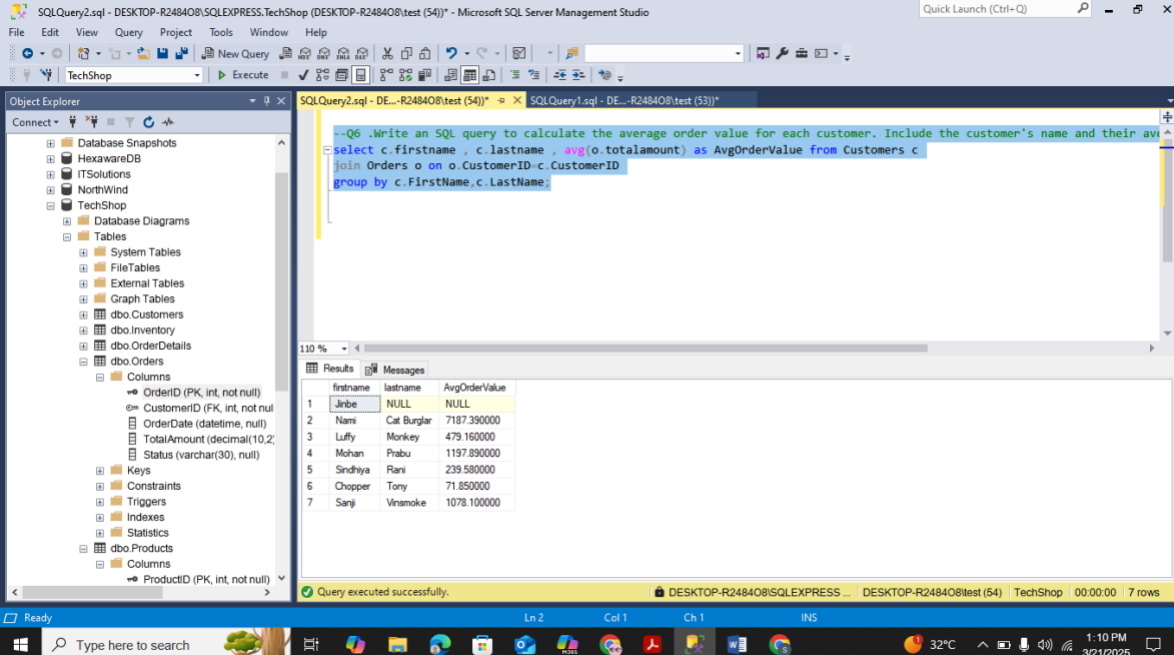
The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'TechShop', including tables like 'Products' and 'Categories'. The main query window contains the following SQL query:

```
--Q5. Write an SQL query to retrieve a list of electronic gadgets along with their corresponding categories.
select ProductName , category from Products
order by category
```

The Results pane shows the output of the query, displaying a list of products and their categories, ordered by category. The status bar indicates the query executed successfully, returning 12 rows.

ProductID	ProductName	category
1	Portable Charger	Accessories
2	Bluetooth Speaker	Accessories
3	Smartphone	Computing Devices
4	Laptop	Computing Devices
5	Tablet	Computing Devices
6	Smart TV	Entertainment
7	Gaming Console	Entertainment
8	Wireless Earbuds	HeadSet
9	Wired EarPhone	HeadSet
10	Headphones	HeadSet
11	VR Headset	Virtual Reality

Question 6 – Write an SQL query to calculate the average order value for each customer. Include the customer's name and their average order value.



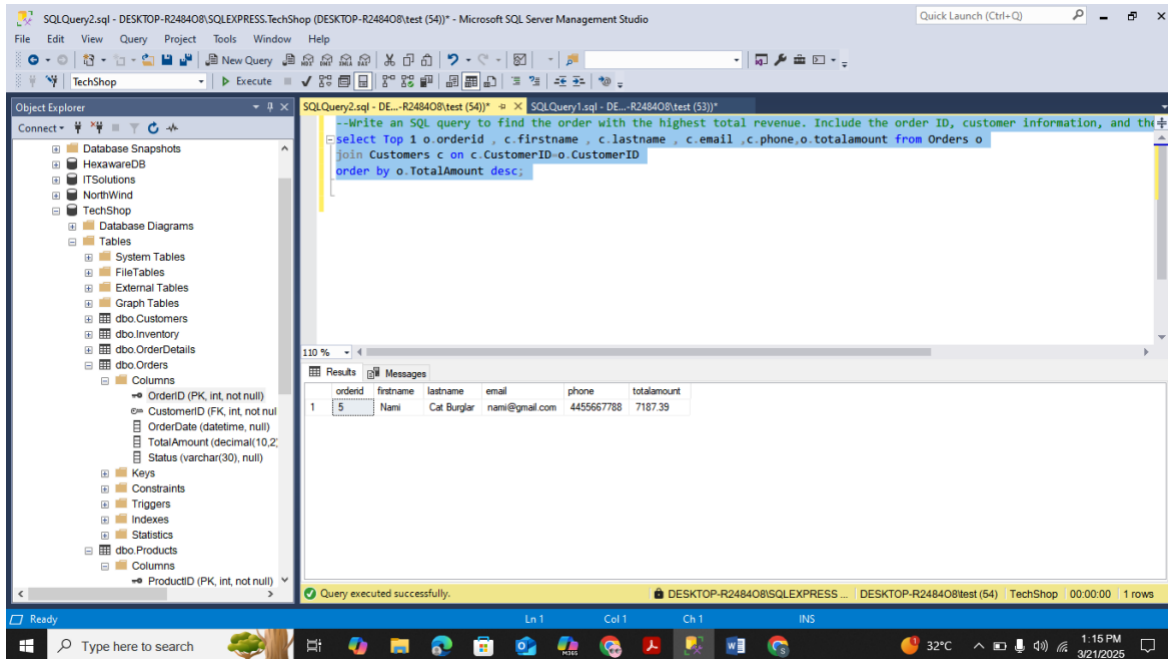
The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'TechShop', including tables like 'Customers' and 'Orders'. The main query window contains the following SQL query:

```
--Q6. Write an SQL query to calculate the average order value for each customer. Include the customer's name and their average order value.
select c.firstname , c.lastname , avg(o.totalamount) as AvgOrderValue from Customers c
join Orders o on o.CustomerID=c.CustomerID
group by c.FirstName,c.LastName
```

The Results pane shows the output of the query, displaying a list of customers and their average order values. The status bar indicates the query executed successfully, returning 7 rows.

firstname	lastname	AvgOrderValue
1	JirBe	NULL
2	Nami	7187.390000
3	Luffy	479.160000
4	Mohan	1197.890000
5	Sindhya	239.580000
6	Chopper	71.850000
7	Sanji	1078.100000

Question 7 -- Write an SQL query to find the order with the highest total revenue. Include the order ID, customer information, and the total revenue.



The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure, including tables like Customers, Orders, and OrderDetails. The query editor in the center contains the following SQL query:

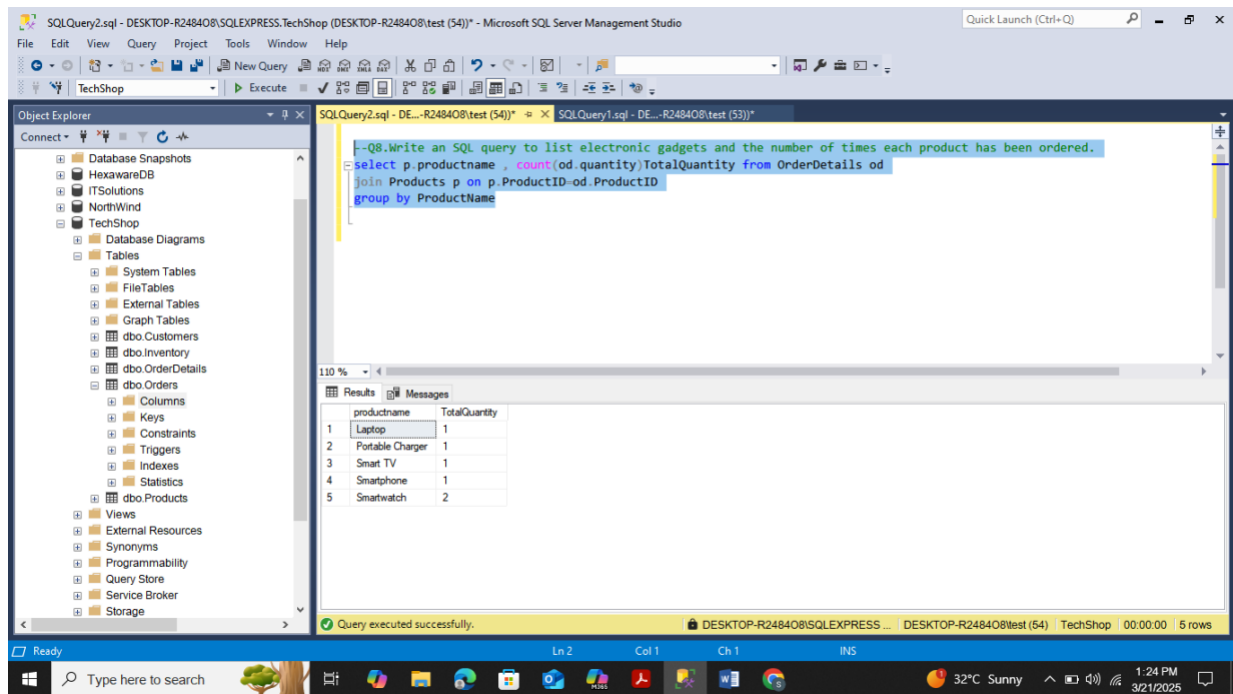
```
--Write an SQL query to find the order with the highest total revenue. Include the order ID, customer information, and the total revenue.
select Top 1 o.orderid , c.firstname , c.lastname , c.email ,c.phone,o.totalamount from Orders o
join Customers c on c.CustomerID=o.CustomerID
order by o.TotalAmount desc;
```

The Results pane at the bottom shows the output of the query, displaying a single row with the following data:

orderid	firstname	lastname	email	phone	totalamount
1	Nami	Cat Burglar	nami@gmail.com	4455667788	7187.39

The status bar at the bottom indicates that the query was executed successfully, returning 1 row.

Question 8 -- Write an SQL query to list electronic gadgets and the number of times each product has been ordered.



The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure, including tables like Products, OrderDetails, and Orders. The query editor in the center contains the following SQL query:

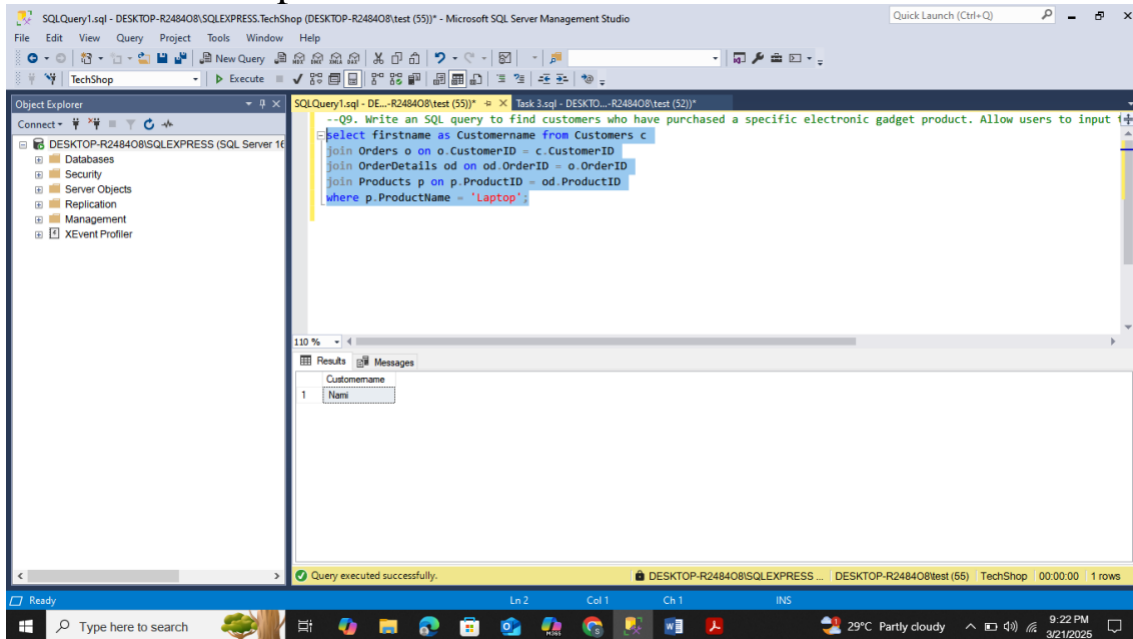
```
--Q8.Write an SQL query to list electronic gadgets and the number of times each product has been ordered.
select p.productname , count(od.quantity)TotalQuantity from OrderDetails od
join Products p on p.ProductID=od.ProductID
group by ProductName
```

The Results pane at the bottom shows the output of the query, displaying a list of products and their total quantities:

productname	TotalQuantity
Laptop	1
Portable Charger	1
Smart TV	1
Smartphone	1
Smartwatch	2

The status bar at the bottom indicates that the query was executed successfully, returning 5 rows.

Question 9 --Write an SQL query to find customers who have purchased a specific electronic gadget product. Allow users to input the product name as a parameter.



Question 10 --Write an SQL query to calculate the total revenue generated by all orders placed within a specific time period. Allow users to input the start and end dates as parameters.

