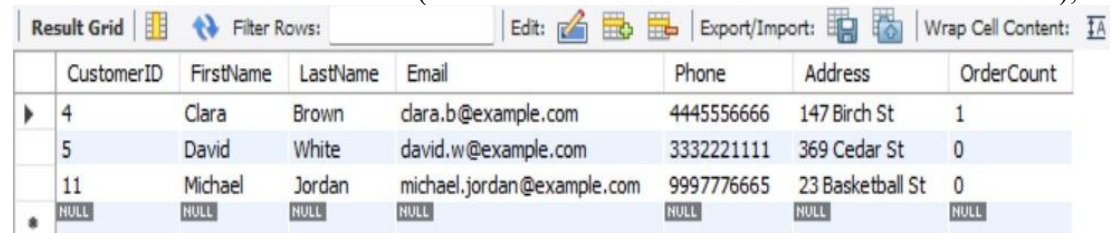


# ELECTRONIC GADGETS

## Task 4. Subquery and its type:

1. Write an SQL query to find out which customers have not placed any orders.

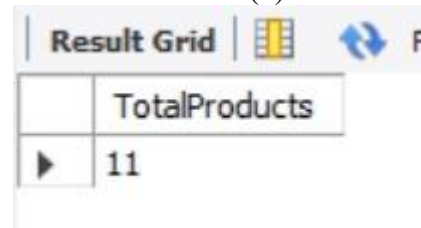
```
SELECT *  
FROM Customers  
WHERE CustomerID NOT IN (SELECT DISTINCT CustomerID FROM Orders);
```



	CustomerID	FirstName	LastName	Email	Phone	Address	OrderCount
▶	4	Clara	Brown	clara.b@example.com	4445556666	147 Birch St	1
	5	David	White	david.w@example.com	3332221111	369 Cedar St	0
	11	Michael	Jordan	michael.jordan@example.com	9997776665	23 Basketball St	0
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

2. Write an SQL query to find the total number of products available for sale.

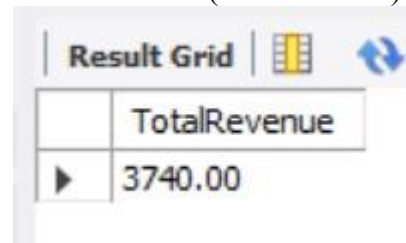
```
SELECT COUNT(*) AS TotalProducts FROM Products;
```



	TotalProducts
▶	11

3. Write an SQL query to calculate the total revenue generated by TechShop.

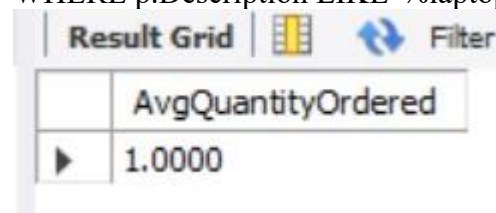
```
SELECT SUM(TotalAmount) AS TotalRevenue FROM Orders;
```



	TotalRevenue
▶	3740.00

4. Write an SQL query to calculate the average quantity ordered for products in a specific category. Allow users to input the category name as a parameter.

```
SELECT AVG(od.Quantity) AS AvgQuantityOrdered  
FROM OrderDetails od  
JOIN Products p ON od.ProductID = p.ProductID  
WHERE p.Description LIKE '%laptop%';
```



	AvgQuantityOrdered
▶	1.0000



**8. Write an SQL query to find the customer who has spent the most money (highest total revenue) on electronic gadgets. List their name and total spending.**

```
SELECT C.CustomerID, C.FirstName, C.LastName, SUM(O.TotalAmount) AS
TotalSpent
FROM Customers C
JOIN Orders O ON C.CustomerID = O.CustomerID
GROUP BY C.CustomerID
ORDER BY TotalSpent DESC
LIMIT 1;
```

Result Grid				
	CustomerID	FirstName	LastName	TotalSpent
▶	1	John	Doe	1650.00

**9. Write an SQL query to calculate the average order value (total revenue divided by the number of orders) for all customers.**

```
SELECT AVG(O.TotalAmount) AS AvgOrderValue FROM Orders O;
```

Result Grid	
	AvgOrderValue
▶	415.555556

**10. Write an SQL query to find the total number of orders placed by each customer and list their names along with the order count.**

```
SELECT C.CustomerID, C.FirstName, C.LastName, COUNT(O.OrderID) AS
OrderCount
FROM Customers C
LEFT JOIN Orders O ON C.CustomerID = O.CustomerID
GROUP BY C.CustomerID;
```

Result Grid				
	CustomerID	FirstName	LastName	OrderCount
▶	1	John	Doe	1
	2	Alice	Smith	1
	3	Bob	Johnson	2
	4	Clara	Brown	0
	5	David	White	0
	6	Emma	Clark	1
	7	Frank	Adams	1
	8	Grace	Baker	1
	9	Henry	Miller	1
	10	Ivy	Williams	1