Task 4. Subquery and its type:

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

mysql> SELECT * FROM Customers WHERE CustomerId NOT IN (SELECT CustomerID FROM Orders);					
CustomerID	FirstName	LastName	email	Phone	Address
2 3 10 11	Jane Alice Oliver Manas	Smith Johnson Anderson Rustagi	jane.smith@example.com alice.johnson@example.com oliver.anderson@example.com manasrustagi123@gmail.com	9876543210 5551234567 3334445555 7982681438	456 Oak St 789 Pine St 707 Walnut St Karol Bagh
rows in set (0.00 sec)					

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

```
mysql> SELECT * FROM Products
-> WHERE ProductID IN (SELECT ProductID FROM Inventory WHERE QuantityInStock >0);

| ProductID | ProductName | Description | Price |
| 1 | Laptop | PC | 1320 |
| 2 | Smartphone | Phones & Tablet | 880 |
| 3 | Headphones | Accessories | 165 |
| 4 | Tablet | Phones & Tablet | 330 |
| 5 | Smartwatch | Accessories | 220 |
| 6 | Desktop PC | PC | 1650 |
| 7 | Bluetooth Speaker | Accessories | 55 |
| 8 | Camera | Camera | 660 |
| 9 | External Hard Drive | Accessories | 88 |
| 10 | Gaming Console | Console | 440 |
| 10 rows in set (0.00 sec)
```

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

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.

5. Write an SQL query to calculate the total revenue generated by a specific customer. Allow users to input the customer ID as a parameter.

```
mysql> DELIMITER ##
mysql> CREATE PROCEDURE data(IN id int)
   -> BEGIN
   -> SELECT SUM(TotalAmount) AS 'Total Revenue Generated By The Customer' FROM Orders WHERE
   -> CustomerID=id;
   -> END ##
Query OK, 0 rows affected (0.01 sec)
mysql> DELIMITER ;
mysql> CALL data(3);
 Total Revenue Generated By The Customer |
      NULL |
1 row in set (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
mysql> CALL data(2);
| Total Revenue Generated By The Customer |
 ------
1 row in set (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
mysql> CALL data(5);
| Total Revenue Generated By The Customer |
                                  660
1 row in set (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
```

6. Write an SQL query to find the customers who have placed the most orders. List their names and the number of orders they've placed.