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

<pre>mysql> SELECT 0.*, CONCAT(C.FirstName,' ',C.LastName) AS NAME FROM -> Orders O JOIN Customers C -> ON O.CustomerID=C.CustomerID;</pre>				
OrderID	CustomerID	OrderDate	TotalAmount	NAME
1	1	2024-01-15	3080	John Doe
6	1	2024-01-20	4950	John Doe
3	2	2024-01-17	5280	Jane Smith
2	3	2024-01-16	165	Alice Johnson
5	4	2024-01-19	880	Bob Williams
4	5	2024-01-18	660	Eva Brown
7	6	2024-01-21	1320	Charlie Davis
8	7	2024-01-22	440	Grace Miller
10	8	2024-01-24	220	David Moore
9	9	2024-01-23	700	Sophia Lee
15	9	2023-05-25	440	Sophia Lee

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

```
mysql> SELECT P.ProductName, SUM(P.Price*O.Quantity) FROM
   -> Products P JOIN OrderDetails O
    -> ON P.ProductId=O.ProductId
   -> GROUP BY P.ProductID
    -> ORDER BY P.ProductID;
                    SUM(P.Price*O.Quantity)
 ProductName
                                         5280
 Laptop
 Smartphone
                                         3520
 Headphones
                                          165
 Tablet
                                         660
 Smartwatch
                                         880
 Desktop PC
                                         4950
 Bluetooth Speaker
                                          220
 Camera
                                         1320
 Gaming Console
                                         440
 rows in set (0.00 sec)
```

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

```
mysql> SELECT C.FirstName,C.LastName,C.Phone,C.Address FROM
   -> Customers C JOIN Orders O ON C.CustomerID=O.CustomerID
   -> GROUP BY C.CustomerID;
   . - - - - - - - + - - - - - - - - + - - - - - -
 FirstName | LastName | Phone
                               Address
        John
 Jane
 Alice
 Bob
          | Brown | 1112223333 | 202 Maple St
| Davis | 4445556666 | 303 Cedar St
 Eva
 Charlie
 Grace
           Miller
                    | 7776665555 | 404 Birch St
         | 2223334444 | 505 Redwood St
 David
 Sophia
 rows in set (0.00 sec)
```

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.

```
mysql> SELECT P.ProductName, SUM(O.Quantity) AS TotalQuantity
   -> FROM Products P
   -> JOIN OrderDetails O ON P.ProductID = O.ProductID
   -> GROUP BY P.ProductID
   -> HAVING SUM(O.Quantity) = (
          SELECT MAX(TotalQuantity) FROM (
            SELECT SUM(Quantity) AS TotalQuantity
              FROM OrderDetails
              GROUP BY ProductID
          ) AS SubQuery
 ProductName
                   | TotalQuantity
 Smartphone
                                 4
                                 4
 Smartwatch
                                 4
 Laptop
 Bluetooth Speaker |
                                 4
 rows in set (0.00 sec)
```

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

```
mysql> SELECT ProductID,ProductName,Description FROM Products
    -> ORDER BY Description;
 ProductID | ProductName
                                   Description
          3
             Headphones
                                    Accessories
          5
             Smartwatch
                                    Accessories
          7
              Bluetooth Speaker
                                    Accessories
          9
             External Hard Drive
                                    Accessories
          8
            Camera
                                    Camera
         10
             Gaming Console
                                    Console
             PS5
         11
                                    Console
          1
                                    PC
             Laptop
          6
                                    PC
              Desktop PC
          2
              Smartphone
                                    Phones & Tablet
          4
              Tablet
                                    Phones & Tablet
11 rows in set (0.00 sec)
```

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

```
ysql> SELECT CONCAT(C.FirstName,' ',C.LastName) AS NAME, (0.Ordervalue/O.Visit) FROM
-> Customers C JOIN (SELECT CustomerID,COUNT(CustomerID) AS Visit, SUM(TotalAmount) AS Ordervalue FROM Orders GROUP BY CustomerID) AS O
   -> GROUP BY C.CustomerID;
                   (0.0rdervalue/0.Visit)
 John Doe
                                      4015,0000
 Jane Smith
                                      5280.0000
Alice Johnson
Bob Williams
                                       165.0000
                                       880.0000
Eva Brown
                                       660.0000
 Charlie Davis
                                      1320.0000
Grace Miller
David Moore
                                       440.0000
                                        220.0000
 rows in set (0.00 sec)
```

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

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

```
mysql> SELECT P.ProductId,P.ProductName,SUM(O.Quantity) AS 'Total Quantity Ordered' FROM
   -> Products P LEFT JOIN OrderDetails O ON
   -> P.ProductID=0.ProductID
   -> GROUP BY P.ProductID
   -> ORDER BY P.ProductID;
 ProductId | ProductName | Total Quantity Ordered |
         1 | Laptop
                                                        4
         2 | Smartphone
                                                        4
         3 Headphones
         4 | Tablet
         5 | Smartwatch
                                                        4
         6 | Desktop PC
           | Bluetooth Speaker
                                                        4
         8 | Camera
                                                        2
         9 | External Hard Drive
                                                     NULL
        10
           | Gaming Console
        11 | PS5
                                                     NULL
11 rows in set (0.00 sec)
```

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.

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