TASK 3 (OUTPUT SCREENSHOTS)

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

```
+---------+--------------+--------------------+
| orderid | customername | productPurchased   |
+---------+--------------+--------------------+
|     211 | Ross         | Smartphone         |
|     213 | Monica       | Smartwatch         |
|     214 | Chandler     | Keyboard           |
|     215 | Phoebe       | Mouse              |
|     221 | Phoebe       | NULL               |
|     216 | Lisa         | Monitor            |
|     217 | Jennifer     | Tablet             |
|     220 | Jennifer     | NULL               |
|     218 | Mathew       | Gaming Console     |
|     219 | Joeshp       | External Hard Drive |
+---------+--------------+--------------------+
10 rows in set (0.02 sec)
```

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

```
+--------------------+---------+
| prod_purchased     | revenue |
+--------------------+---------+
| Smartphone         |   55000 |
| Smartwatch         |   16500 |
| Keyboard           |    5500 |
| Mouse              |    3300 |
| Monitor            |   38500 |
| Tablet             |   27500 |
| Gaming Console     |   66000 |
| External Hard Drive |   66000 |
+--------------------+---------+
8 rows in set (0.02 sec)
```

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

```
+----------+-----------+-----------+--------------+
| customer | Cphone    | Caddress  | total_orders |
+----------+-----------+-----------+--------------+
| Ross     | 453678987 | Japan     |            1 |
| Monica   | 879564536 | New york  |            1 |
| Chandler | 78367465  | London    |            1 |
| Phoebe   | 348938938 | London    |            2 |
| Lisa     | 324654345 | Las vegas |            1 |
| Jennifer | 478930987 | Las vegas |            2 |
| Mathew   | 839899989 | Chicago   |            1 |
| Joeshp   | 468987878 | New york  |            1 |
+----------+-----------+-----------+--------------+
8 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.

```
+----------------------+----------------+
| HighPurchased_Gadget | total_quantity |
+----------------------+----------------+
| Smartphone           |              1 |
+----------------------+----------------+
1 row in set (0.01 sec)
```

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

```
+----------------------+----------------+
| HighPurchased_Gadget | total_quantity |
+----------------------+----------------+
| External Hard Drive  |              5 |
+----------------------+----------------+
1 row in set (0.00 sec)
```

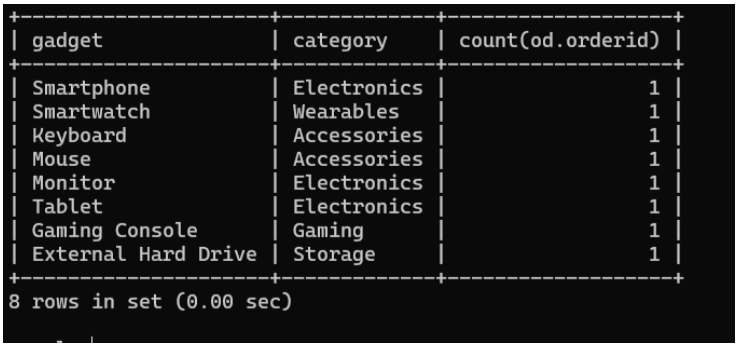
6. Write an SQL query to calculate the average order value for each customer. Include the customer's name and their average order value.

```
+--------------+-----------------+
| customername | avg_orderValue  |
+--------------+-----------------+
| Ross         |     55000.0000 |
| Monica       |     16500.0000 |
| Chandler     |      5500.0000 |
| Phoebe       |      7650.0000 |
| Lisa         |     38500.0000 |
| Jennifer     |     27500.0000 |
| Mathew       |     66000.0000 |
| Joeshp       |     13200.0000 |
+--------------+-----------------+
8 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.

```
+--------------+---------------------+---------+-----------------+
| customername | customeremail       | orderid | hightotalRevenue |
+--------------+---------------------+---------+-----------------+
| Mathew       | mathewperry@gmail.com |     218 |           66000 |
+--------------+---------------------+---------+-----------------+
1 row in set (0.00 sec)
```

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



gadget	category	count(od.orderid)
Smartphone	Electronics	1
Smartwatch	Wearables	1
Keyboard	Accessories	1
Mouse	Accessories	1
Monitor	Electronics	1
Tablet	Electronics	1
Gaming Console	Gaming	1
External Hard Drive	Storage	1

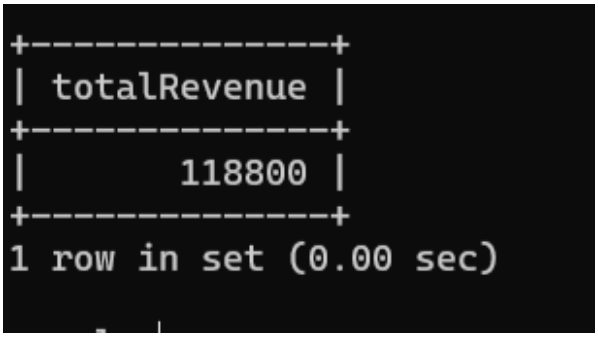
8 rows in set (0.00 sec)

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.

customers	gadget	cust_id
Monica	Smartwatch	4

1 row in set (0.00 sec)

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.



totalRevenue
118800

1 row in set (0.00 sec)