SQL Assignment Solution

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Question 1

Retrieve the CustomerName, OrderID, and TotalAmount for customers who have placed orders with a total amount greater than 200.

```
SELECT customerName, orderID, totalAmount
FROM orders
JOIN customer ON orders.custID = customer.customerID
WHERE totalAmount >200;
```

Question 2

Retrieve the CustomerName and the count of orders placed by each customer, including customers who have not placed any orders.

```
SELECT customer.customerName , COUNT(orders.orderID) AS orderCount
FROM customer
LEFT JOIN orders ON customer.customerID = orders.custID
GROUP BY customer.customerName;
```

Question 3

Retrieve the CustomerName and the average TotalAmount of orders placed by each customer, including customers without any orders.

```
SELECT customer.customerName , AVG(orders.totalAmount) AS AverageTAmount
FROM customer
LEFT JOIN orders ON customer.customerID = orders.custID
GROUP BY customer.customerName;
```

Question 4

Retrieve the CustomerName and TotalAmount of all customers and orders, including unmatched records from both sides.

```
SELECT customer.customerName, orders.totalAmount
FROM customer
LEFT JOIN orders ON customer.customerID = orders.custID
UNION
SELECT customer.customerName, orders.totalAmount
FROM customer
RIGHT JOIN orders ON customer.customerID = orders.custID;
```

Question 5

Retrieve the CustomerName and the total count of orders placed by each customer, including unmatched customers and orders.

```
SELECT customer.customerName , COUNT(orders.custID) AS OrderCount
FROM customer
LEFT JOIN orders ON customer.customerID = orders.custID
GROUP BY customer.customerID
UNION
SELECT customer.customerName , COUNT(orders.orderID) AS OrderCount
FROM customer
RIGHT JOIN orders ON customer.customerID = orders.custID
GROUP BY orders.custID;
```