

**Assignment 3:** Utilize a subquery to find customers who have placed orders above the average order value, and write a UNION query to combine two SELECT statements with the same number of columns.

Solution:-

1.Utilize a subquery to find customers who placed orders above the average order value:

```
SELECT customer_id, customer_name
FROM customers
WHERE customer_id IN (
    SELECT customer_id
    FROM orders
    GROUP BY customer_id
    HAVING AVG(order_value) > (
        SELECT AVG(order_value)
        FROM orders
    )
)
```

2.Write a UNION query to combine two SELECT statements with the same number of column:

```
SELECT order_id, customer_id
FROM orders;
```

let's combine both queries into a single query using 'UNION'

```
SELECT customer_id, customer_name
FROM customers
WHERE customer_id IN (
    SELECT customer_id
    FROM orders
    GROUP BY customer_id
    HAVING AVG(order_value) > (
        SELECT AVG(order_value)
        FROM orders
    )
)
UNION
SELECT order_id, customer_id
FROM orders;
```

**Output:**

Before execution of the query

customer\_id | customer\_name

-----

1 | John

2		Smith
3		joseph

After execution of first query

customer_id	customer_name
-----	
1	John
3	joseph

Output for second query:

Order_id	customer_id
-----	
10	2
12	4

When combined with UNION-final Output is:

customer_id	customer_name
-----	
1	John Doe
3	joseph
10	2
12	4