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Topic – SQL Assignment : 10

Batch - DATACOM+5G Dev

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Assignment 10: 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 :

```
mysql> SELECT c.customer_name, c.email, o.order_id, o.order_date, o.order_total
-> FROM customers c
-> LEFT JOIN orders o
-> ON c.customer_id = o.customer_id;
```

customer_name	email	order_id	order_date	order_total
John Doe	john.doe@example.com	101	2023-11-01	150.00
John Doe	john.doe@example.com	103	2023-11-10	180.00
Jane Smith	jane.smith@example.com	102	2023-11-02	200.00
Mike Johnson	mike.johnson@example.com	105	2023-11-15	130.00
Emily Davis	emily.davis@example.com	104	2023-11-12	220.00
David Brown	david.brown@example.com	NULL	NULL	NULL

6 rows in set (0.00 sec)

1.

```
mysql> SELECT c.customer_name, c.email, o.order_id, o.order_date, o.order_total
-> FROM customers c
-> INNER JOIN orders o
-> ON c.customer_id = o.customer_id
-> WHERE o.order_total > (
-> SELECT AVG(order_total) FROM orders
-> );
```

customer_name	email	order_id	order_date	order_total
Jane Smith	jane.smith@example.com	102	2023-11-02	200.00
John Doe	john.doe@example.com	103	2023-11-10	180.00
Emily Davis	emily.davis@example.com	104	2023-11-12	220.00

3 rows in set (0.02 sec)

2.

```

mysql> SELECT c.customer_name, c.email
-> FROM customers c
-> INNER JOIN orders o
->     ON c.customer_id = o.customer_id
->
-> UNION
->
-> -- Retrieve customers who have NOT placed orders
-> SELECT c.customer_name, c.email
-> FROM customers c
-> WHERE c.customer_id NOT IN (SELECT customer_id FROM orders);
+-----+-----+
| customer_name | email |
+-----+-----+
| John Doe     | john.doe@example.com |
| Jane Smith   | jane.smith@example.com |
| Mike Johnson | mike.johnson@example.com |
| Emily Davis  | emily.davis@example.com |
| David Brown  | david.brown@example.com |
+-----+-----+
5 rows in set (0.01 sec)

```