

## DAY 17: RIGHT AND FULL JOIN

RIGHT JOIN returns all matched and unmatched rows from the right table. RIGHT JOIN can also be written as Right Outer Join. We can say it is the opposite of Left Join. Although, it is less commonly used, unlike Left Join. Right and Left Join can be combined together in what is known as a Full Join.

```
/*Write a SQL query to retrieve all customers and the average order quantity.*/
SELECT contact_name, ROUND(AVG(quantity),1) AS avg_qty
FROM customers AS CUS
RIGHT JOIN orders AS ORD
USING(customer_id)
RIGHT JOIN order_details AS OD
ON ORD.order_id = OD.order_id
GROUP BY contact_name
ORDER BY avg_qty DESC;

/*Write a SQL query to retrieve all employees and the number of orders the handled*/
SELECT employee_name, COUNT(DISTINCT order_id) AS num_order
FROM employees
RIGHT JOIN orders
USING(employee_id)
GROUP BY employee_name
ORDER BY num_order DESC;

/*Write a SQL query to retrieve the list of products
and their categories and the number of products ordered*/
SELECT product_name, category_name, COUNT(DISTINCT order_id) AS num_prod
FROM products
FULL JOIN categories AS CT
USING(category_id)
FULL JOIN order_details AS OD
ON CT.category_id = OD.product_id
GROUP BY product_name, category_name
ORDER BY num_prod DESC;
```

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