

DAY 24: RANK FUNCTION

Another window function that is similar to Row Number is the Rank. It has the same syntax as the Row Number but provides slightly different results. The Rank function gives rows with the same value the same ranking results unlike the Row Number, which allows the ranking of rows by unique numbers even if the rows are the same. The Dense Rank function also assigns the same number to rows with identical values but doesn't skip over the following numbers.

```
/*List all products along with their unit price, ordered by unit price in descending order.*/
SELECT product_id, product_name, unit_price,
       RANK() OVER (ORDER BY unit_price DESC) AS price_rank
FROM products;

/*Retrieve a list of employees and customers with their job title.*/
SELECT employee_id, employee_name, customer_id, contact_name, EM.job_title,
       RANK() OVER (PARTITION BY EM.job_title ORDER BY employee_id ASC) AS job_rank
FROM employees AS EM
INNER JOIN customers AS CUS
ON EM.job_title = CUS.job_title
ORDER BY job_rank DESC;

/*Retrieve the top 3 shippers.*/
SELECT SH.shipper_id, customer_id, company_name,
       DENSE_RANK() OVER (PARTITION BY customer_id ORDER BY SH.shipper_id DESC) AS ship_rank
FROM shippers AS SH
INNER JOIN orders AS ORD
ON SH.shipper_id = ORD.shipper_id
LIMIT 3;
```