**Day 7**

1.     Rank employees by their total sales

(Total sales = Total no of orders handled, JOIN employees and orders table)

**SELECT o.employee\_id,e.first\_name||' '||e.last\_name AS employee\_name,COUNT(o.order\_id) AS total\_sales,**

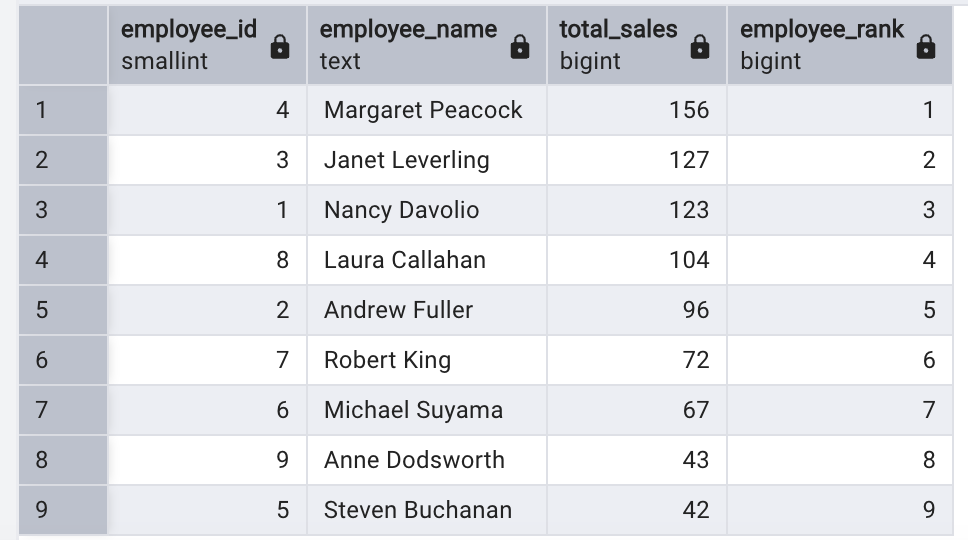
**RANK() OVER(**

**ORDER BY COUNT(o.order\_id) DESC**

**) AS employee\_rank**

**FROM orders o**

**INNER JOIN employees e ON o.employee\_id = e.employee\_id**

**GROUP BY o.employee\_id,e.first\_name,e.last\_name**

2.      Compare current order's freight with previous and next order for each customer.

(Display order\_id,  customer\_id,  order\_date,  freight,

Use lead(freight) and lag(freight).

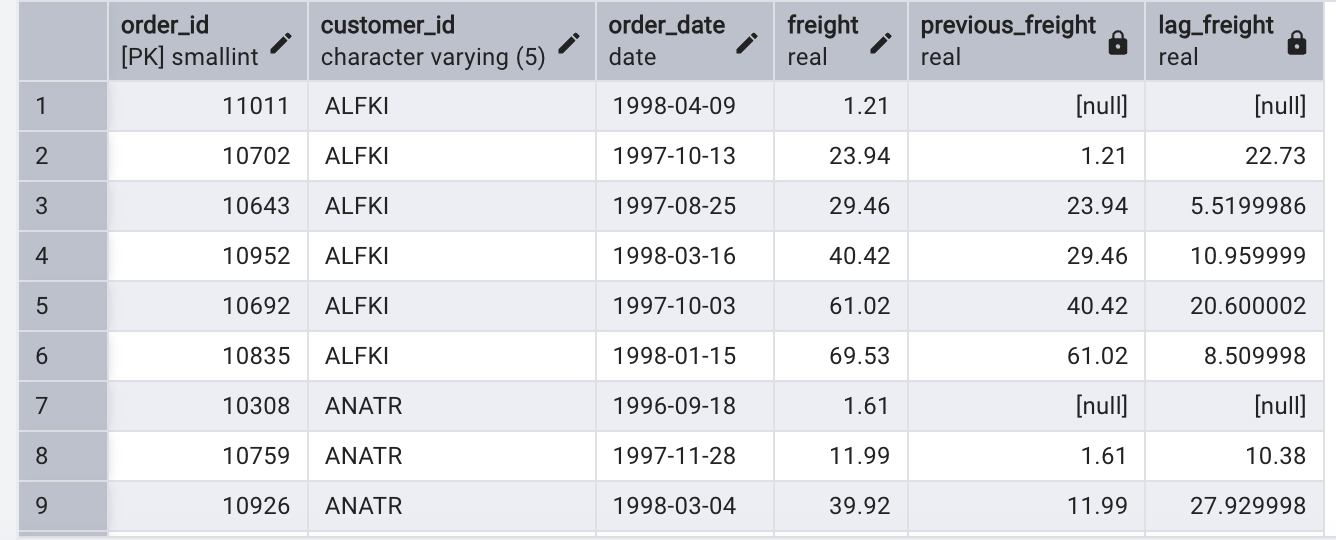
**SELECT**

**order\_id,customer\_id,order\_date,freight,**

**lag(freight) over(partition by customer\_id order by freight) AS previous\_freight,**

**freight - lag(freight) over(partition by customer\_id order by freight) AS lag\_freight**

**FROM orders;**

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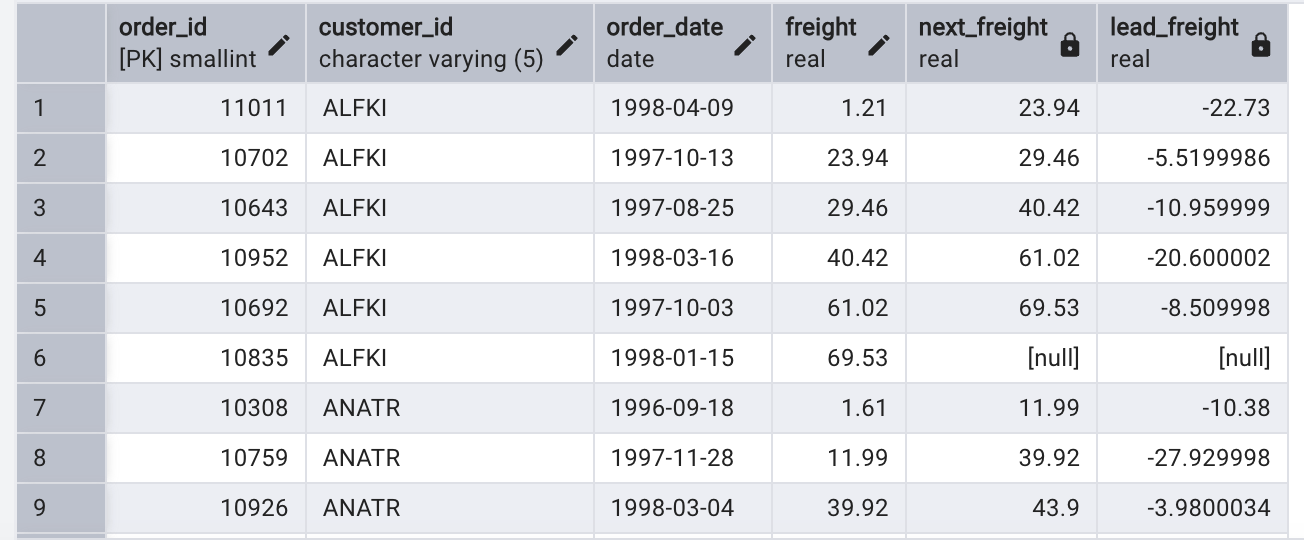
**SELECT**

**order\_id,customer\_id,order\_date,freight,**

**lead(freight) over(partition by customer\_id order by freight) AS next\_freight,**

**freight - lead(freight) over(partition by customer\_id order by freight) AS lead\_freight**

**FROM orders**

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3.     Show products and their price categories, product count in each category, avg price:

         (HINT:

·  Create a CTE which should have price\_category definition:

         WHEN unit\_price < 20 THEN 'Low Price'

            WHEN unit\_price < 50 THEN 'Medium Price'

            ELSE 'High Price'

·  In the main query display: price\_category,  product\_count in each price\_category,  ROUND(AVG(unit\_price)::numeric, 2) as avg\_price)

**SELECT \* FROM categories**

**SELECT \* FROM products**

**WITH price\_cat AS**

**(SELECT**

**product\_id,product\_name,unit\_price,**

**CASE**

**WHEN unit\_price<20 THEN 'Low Price'**

**WHEN unit\_price<50 THEN 'Medium Price'**

**ELSE 'High Price'**

**END AS price\_category**

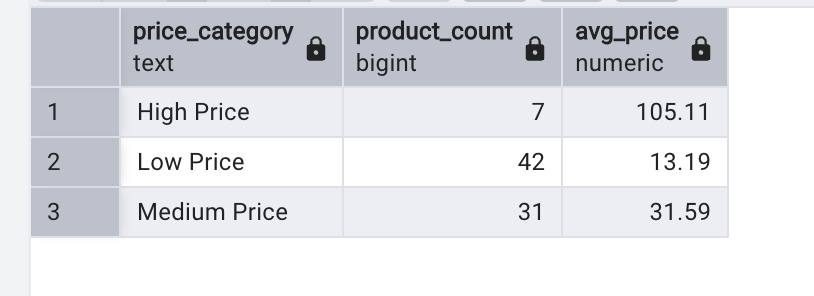
**FROM products)**

**SELECT price\_category, COUNT(\*) AS product\_count, ROUND(AVG(unit\_price)::numeric,2) AS Avg\_price**

**FROM price\_cat**

**GROUP BY price\_category**

**ORDER BY price\_category;**

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