Assignment 7

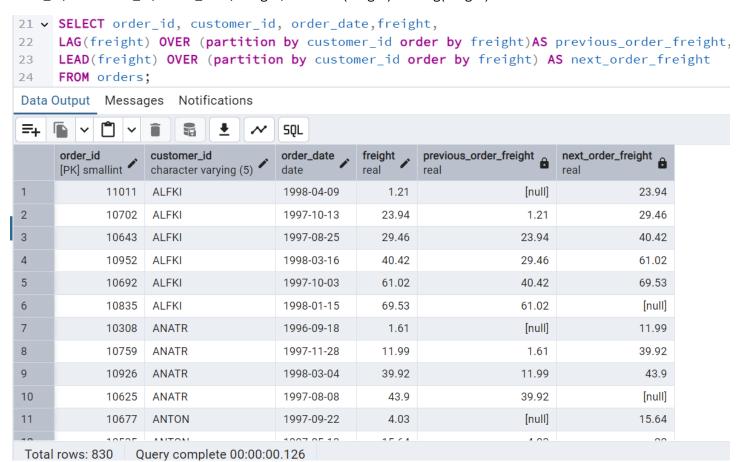
Day 7

1. Rank employees by their total sales

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

Data Output Messages Notifications						
= +	<u> </u>		S QL			
	employee_id [PK] smallint	total_sales bigint	sales_rank bigint			
1	4	156	1			
2	3	127	2			
3	1	123	3			
4	8	104	4			
5	2	96	5			
6	7	72	6			
7	6	67	7			
8	9	43	8			
9	5	42	9			

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).



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)

```
33 ∨ WITH cte price category As(
     SELECT product_id,product_name, unit_price,
34
35
     CASE
36
          WHEN unit_price < 20 THEN 'Low Price'
          WHEN unit_price < 50 THEN 'Medium Price'
37
          ELSE 'High Price'
38
39
     END AS price_category
     FROM products
40
41
42
     --main query
43
     SELECT price_category,
44
     COUNT (*) AS product_count,
     ROUND(AVG(unit_price)::numeric, 2) as avg_price
45
     FROM cte_price_category
46
     GROUP BY price_category
47
     ORDER BY price_category;
48
                       Notifications
Data Output
            Messages
=+
                                      SQL
      price_category
                    product_count
                                   avg_price
                    bigint
                                   numeric
      text
1
      High Price
                                7
                                       105.11
2
      Low Price
                               39
                                       12.95
3
      Medium Price
                               31
                                       31.59
```