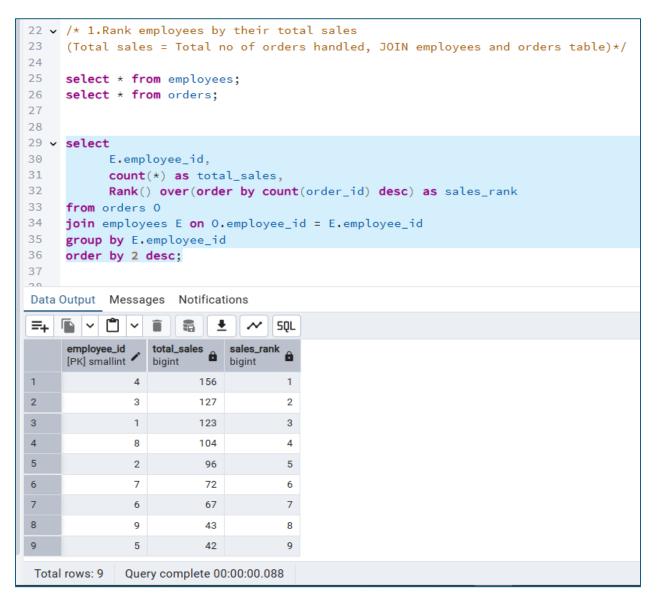
DAY 7 ASSIGNMENT

1. Rank employees by their total sales

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

join employees E on O.employee_id = E.employee_id group by E.employee_id order by 2 desc;

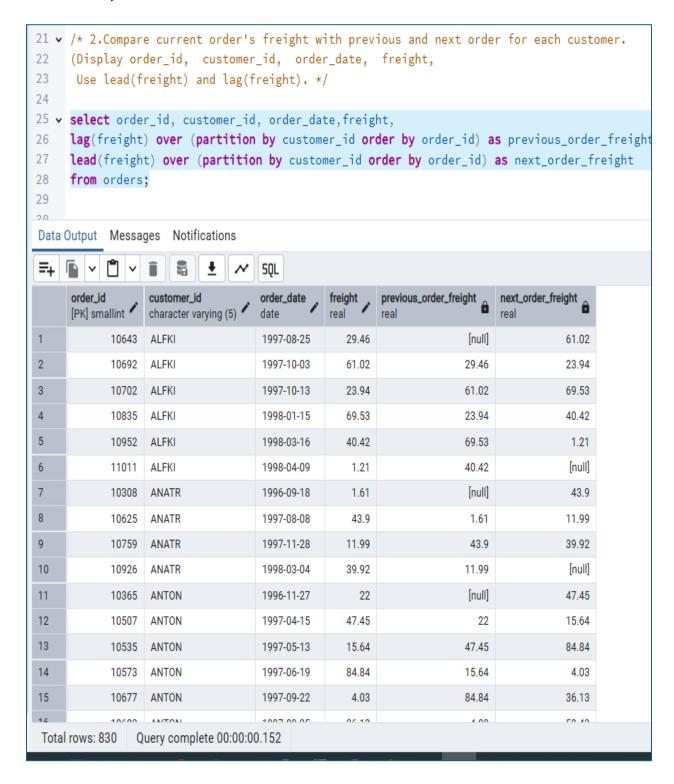


2.Compare current order's freight with previous and next order for each customer. (Display order_id, customer_id, order_date, freight,Use lead(freight) and lag(freight).

select order_id, customer_id, order_date,freight, lag(freight) over (partition by customer_id order by freight) as previous_order_freight, lead(freight) over (partition by customer_id order by freight) as next_order_freight from orders;

2 3		der_id, customer reight) and lag(f			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
24						
25 🗸		r_id, customer_id		-	•	
26 27		•			der by freight) as rder by freight) a	
28	from orders		ii by custoi	ilei_iu U	ider by freight, a	S Hext_order_freig
29						
20						
Data	Output Messa	ges Notifications				
=+	□ ∨ □ ∨		SQL			
	order_id [PK] smallint	customer_id character varying (5)	order_date /	freight real	previous_order_freight real	next_order_freight real
1	11011	ALFKI	1998-04-09	1.21	[null]	23.94
2	10702	ALFKI	1997-10-13	23.94	1.21	29.46
3	10643	ALFKI	1997-08-25	29.46	23.94	40.42
4	10952	ALFKI	1998-03-16	40.42	29.46	61.02
5	10692	ALFKI	1997-10-03	61.02	40.42	69.53
6	10835	ALFKI	1998-01-15	69.53	61.02	[null]
7	10308	ANATR	1996-09-18	1.61	[null]	11.99
8	10759	ANATR	1997-11-28	11.99	1.61	39.92
9	10926	ANATR	1998-03-04	39.92	11.99	43.9
10	10625	ANATR	1997-08-08	43.9	39.92	[null]
11	10677	ANTON	1997-09-22	4.03	[null]	15.64
12	10535	ANTON	1997-05-13	15.64	4.03	22
13	10365	ANTON	1996-11-27	22	15.64	36.13
14	10682	ANTON	1997-09-25	36.13	22	47.45
15	10507	ANTON	1997-04-15	47.45	36.13	58.43
	10056	ANTON	1000 01 00	FO 40	47 45	04.04

select order_id, customer_id, order_date,freight, lag(freight) over (partition by customer_id order by order_id) as previous_order_freight, lead(freight) over (partition by customer_id order by order_id) as next_order_freight from orders;



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)

```
With cte_price_category 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
)

--main query
select price_category,
count(*) as product_count,
ROUND(AVG(unit_price)::numeric, 2) as avg_price
from cte_price_category
group by price_category
order by price_category;
```

```
35
36 ∨ /* 3.Show products and their price categories, product
37
     (HINT: ·Create a CTE which should have price_category de
              WHEN unit_price < 20 THEN 'Low Price'
38
              WHEN unit_price < 50 THEN 'Medium Price'
39
40
              ELSE 'High Price'
     ·In the main query display: price_category, product_cou
41
42
43
44 v With cte_price_category As(
     select product_id,product_name, unit_price,
45
46
     case
47
         WHEN unit_price < 20 THEN 'Low Price'
         WHEN unit_price < 50 THEN 'Medium Price'
48
         ELSE 'High Price'
49
50
     end as price_category
51
     from products
52
53
54
     --main query
55
     select price_category,
56
     count(*) as product_count,
     ROUND(AVG(unit_price)::numeric, 2) as avg_price
57
58
     from cte_price_category
59
     group by price_category
60
     order by price_category;
Data Output Messages
                      Notifications
                                     SQL
=+
                                 avg_price
                   product_count
     price_category
                   bigint
                                 numeric
1
     High Price
                               7
                                     105.11
      Low Price
                                      12.95
2
                              39
      Medium Price
                                      31.59
Total rows: 3
              Query complete 00:00:00.074
```