YAMUNA DAY7 ASSIGNMENTS

1. Rank employees by their total sales

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

select

E.employee_id,

count(*) as total_sales,

Rank() over(order by count(order_id) desc) as sales_rank

from orders O

join employees E on O.employee_id = E.employee_id group by E.employee_id

order by 2 desc;

Data Output Messages Notifications							
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	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				

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;

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	order_id [PK] smallint	customer_id character varying (5)	order_date /	freight /	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

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) 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;

			~ SQL
	price_category text	product_count bigint	avg_price numeric
1	High Price	7	105.11
2	Low Price	39	12.95
3	Medium Price	31	31.59