

## Day 7 Assignment

### PostgreSQL

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#### 1. Rank employees by their total sales

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

#### Query:

```
SELECT e.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 sales_rank  
FROM employees e  
  
JOIN orders o ON e.employee_id = o.employee_id  
  
GROUP BY e.employee_id, employee_name  
  
ORDER BY total_sales DESC;
```

#### OUTPUT:

Data Output Messages Notifications				
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	employee_id [PK] smallint	employee_name text	total_sales bigint	sales_rank bigint
1	4	MargaretPeacock	156	1
2	3	JanetLeverling	127	2
3	1	NancyDavolio	123	3
4	8	LauraCallahan	104	4
5	2	AndrewFuller	96	5
6	7	RobertKing	72	6
7	6	MichaelSuyama	67	7
8	9	AnneDodsworth	43	8
9	5	StevenBuchanan	42	9

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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).

**Query:**

**OUTPUT:**

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)

**Query:**

WITH categorized\_products 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 categorized\_products

GROUP BY price\_category

ORDER BY price\_category;

**OUTPUT:**

Data Output Messages Notifications



	product_id [PK] smallint	product_name character varying (40)	unit_price real	price_category text
69	69	Gudbrandsdalsost	36	Medium Price
70	70	Outback Lager	15	Low Price
71	71	Flotemysost	21.5	Medium Price
72	72	Mozzarella di Giovanni	34.8	Medium Price
73	73	Röd Kaviar	15	Low Price
74	74	Longlife Tofu	10	Low Price
75	75	Rhönbräu Klosterbier	7.75	Low Price
76	76	Lakkalikööri	18	Low Price
77	77	Original Frankfurter grüne Soße	13	Low Price

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