## Questions

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1. Retrieve the order ID, customer IDs and customer names and total amounts for orders that have a total amount greater than \$1000.

SELECT a.order\_id, a.customer\_id, b.customer\_name, a.total\_amount FROM orders AS a JOIN customers AS b
ON a.customer\_id = b.customer\_id
WHERE a.total amount>1000



2. Retrieve the total quantity of each product sold.

WITH CT AS(

SELECT a.product\_id,b.product\_name,b.description FROM orders\_details As a

JOIN products AS b

ON a.product\_id = b.product\_id

SELECT product\_id, product\_name, COUNT(product\_id) AS count FROM CT GROUP BY product\_name, product\_id ORDER BY product\_id

	product_id integer	product_name character varying (50)	count bigint	â
1	1	iPhone X		3
2	2	Galaxy S9		1
3	3	iPad Pro		2
4	4	Pixel 4a		2
5	5	MacBook Air		1

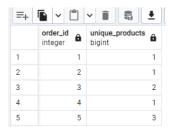
3. Retrieve the order details (order ID, product name, quantity) for orders with a quantity greater than the average quantity of all orders.

SELECT a.order\_id,b.product\_name,a.qty
FROM orders\_details AS a
JOIN products AS b
ON a.product\_id = b.product\_id
WHERE qty > (SELECT AVG(qty) FROM orders\_details)



4. Retrieve the order IDs and the number of unique products included in each order.

SELECT order\_id, COUNT(DISTINCT product\_id) As unique\_products FROM orders\_details GROUP BY order id



5. Retrieve the total number of products sold for each month in the year 2023. Display the month along with the total number of products.

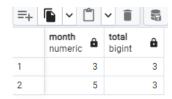
SELECT EXTRACT(MONTH FROM a.order\_date)AS month,
SUM(b.qty) AS total FROM orders AS a
JOIN orders\_details AS b
ON a.order\_id = b.order\_id
GROUP BY EXTRACT(MONTH FROM a.order\_date)
ORDER BY month



5. Retrieve the total number of products sold for each month in the year 2023 where the total number of products sold were greater than 2. Display the month along with the total number of products.

WITH ct AS(

SELECT EXTRACT(MONTH FROM a.order\_date)AS month,
SUM(b.qty) AS total FROM orders AS a
JOIN orders\_details AS b
ON a.order\_id = b.order\_id
GROUP BY EXTRACT(MONTH FROM a.order\_date)
ORDER BY month



SELECT \* FROM ct WHERE total > 2

- 7. Retrieve the order IDs and the order amount based on the following criteria:
  - a. If the total amount > 1000 then 'High Value'
  - b. If it is less than or equal to 1000 then 'Low Value'
  - c. Output should be order IDs, order amount and Value

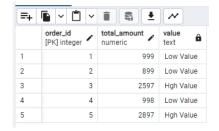
SELECT order\_id, total\_amount,

CASE

WHEN total\_amount>1000 THEN 'Hgh Value'

ELSE 'Low Value'

END AS value



- 8. Retrieve the order IDs and the order amount based on the following criteria:
  - a. If the total\_amount > 1000 then 'High Value'
  - b. If it is less than 1000 then 'Low Value'

**FROM orders** 

c. If it is equal to 1000 then 'Medium Value'
 Also, please only print the 'High Value' products. Output should be — order IDs, order amount and Value.

```
WITH ct AS(

SELECT order_id, total_amount,

CASE

WHEN total_amount>1000 THEN 'High Value'

WHEN total_amount = 1000 THEN 'Medium Value'

ELSE 'Low Value'

END AS value

FROM orders

)
```

SELECT \* FROM ct WHERE value = 'High Value'

