**EDA Questions**

-- Total number of sales

SELECT COUNT(\*) FROM sales

25065

-- Top 5 customers (in terms of sales revenue)

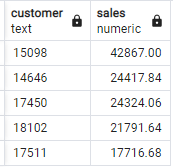
SELECT s.customer\_id as customer, SUM(round(sales::numeric,2)) as sales

FROM sales s LEFT JOIN customers c USING (customer\_id)

GROUP BY s.customer\_id

ORDER BY SUM(sales::numeric) DESC

LIMIT 5;



-- Top 5 customers (in terms of # of sales transactions)

SELECT s.customer\_id as customer, COUNT(sales) as no\_of\_sales

FROM sales s LEFT JOIN customers c USING (customer\_id)

GROUP BY s.customer\_id

ORDER BY COUNT(sales) DESC

LIMIT 5;

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Description automatically generated

-- Top 5 products (in terms of sales revenue)

SELECT p.description as product, SUM(sales::numeric) as sales

FROM SALES s JOIN PRODUCTS p USING (stock\_code)

GROUP BY p.description

ORDER BY SUM(sales::numeric) DESC

LIMIT 5;

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-- Top 5 products (in terms of # of sales transactions)

SELECT p.description as product, COUNT(sales) as no\_of\_sales

FROM SALES s JOIN PRODUCTS p USING (stock\_code)

GROUP BY p.description

ORDER BY COUNT(sales) DESC

LIMIT 5;

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-- What region, state and city had the highest revenue? (Top 5 for state and city)

SELECT region, SUM(sales::numeric) as sales

FROM sales s LEFT JOIN customers c USING (customer\_id)

GROUP BY region

HAVING region IS NOT NULL  --Filtering out guests

ORDER BY SUM(sales) DESC;

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SELECT order\_state as state, SUM(sales::numeric) as sales

FROM sales s LEFT JOIN customers c USING (customer\_id)

GROUP BY order\_state

HAVING order\_state IS NOT NULL  --Filtering out guests

ORDER BY SUM(sales) DESC

LIMIT 5;

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SELECT order\_city as city, order\_state as state, SUM(round(sales::numeric,2)) as sales

FROM sales s LEFT JOIN customers c USING (customer\_id)

GROUP BY order\_city, order\_state

HAVING order\_city IS NOT NULL  --Filtering out guests

ORDER BY SUM(sales) DESC

LIMIT 5;

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A screenshot of a computer

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-- Which product got more returns?

SELECT DISTINCT(p.description),

SUM(ROUND(sales::numeric,2)) OVER (PARTITION BY p.description) as sales\_returns

FROM SALES s JOIN PRODUCTS p USING (stock\_code)

WHERE quantity <= 0

ORDER BY sales\_returns

LIMIT 5;

