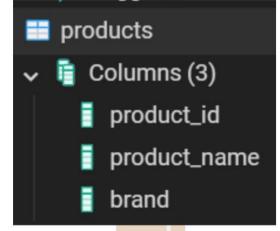
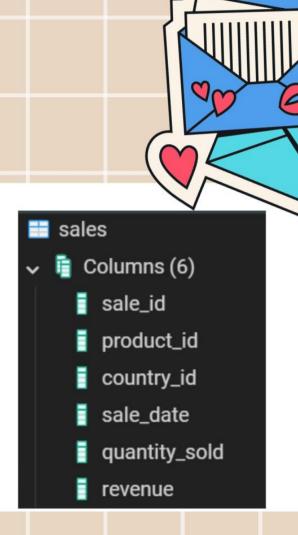


## **TABLES**











#### QUESTIONS

- 1)Find the product with the highest average revenue per sale?
- 2)Find the product with the highest total revenue?
- 3)Determine the month with the highest total revenue across all sales?

CREATE A LINKEDIN POST. ENSURE THAT YOU TAG @DIGITS N DATA AND @NITISH KUMAR TO LET ME KNOW HOW YOU GET ON!





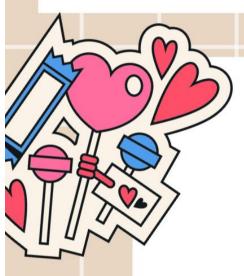
Q1: Find the product with the highest average revenue

per sale?

```
SELECT product_name, ROUND(AVG(revenue), 2) AS avg_rev
FROM products
JOIN sales ON products.product_id = sales.product_id
GROUP BY product_name
HAVING AVG(revenue) = (
    SELECT MAX(avg_rev)
    FROM (
        SELECT product_name, AVG(revenue) AS avg_rev
        FROM products
        JOIN sales ON products.product_id = sales.product_id
        GROUP BY product_name
    ) AS subquery
);
```

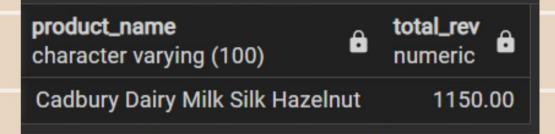






product_name character varying (100)	avg_rev numeric
M&M's	1000.00
Nestlé Toll House Chocolate Chips	1000.00
Lindt Excellence	1000.00
Cadbury Dairy Milk Silk Oreo Red Velvet	1000.00
Cadbury Bournvita	1000.00
Cadbury Dairy Milk Miniatures	1000.00

### Q2: FIND THE PRODUCT WITH THE HIGHEST TOTAL REVENUE?



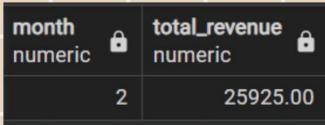


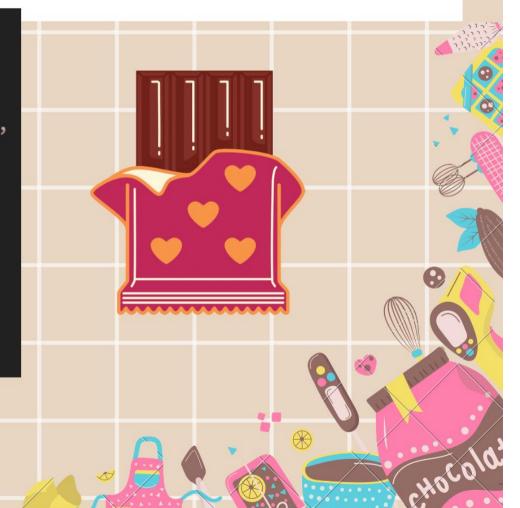


```
- Method 2 -----
SELECT product_name, SUM(total_rev) AS total_rev
FROM (
    SELECT product_name, SUM(revenue) AS total_rev,
        RANK() OVER(ORDER BY SUM(revenue) DESC) AS rank
    FROM sales
    JOIN products ON products.product_id = sales.product_id
    GROUP BY product name
 AS subquery
               --- adding alies(subquery) for referencing SQL
WHERE rank = 1
GROUP BY product_name;
product_name
                              total_rev
character varying (100)
                               numeric
 Cadbury Dairy Milk Silk Hazelnut
                                  1150.00
```

### Q3: DETERMINE THE MONTH WITH THE HIGHEST TOTAL REVENUE ACROSS ALL SALES?

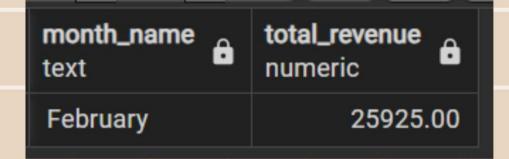
```
SELECT
    EXTRACT(MONTH FROM sale_date) AS month,
    SUM(revenue) AS total_Revenue
FROM
    sales
GROUP BY
    EXTRACT(MONTH FROM sale_date)
ORDER BY
    total_Revenue DESC;
```





IF YOU ARE USING ANY DATABASE TOOLS OTHER THAN POSTGRESQL YOU CAN USR MONTHNAME(), DATENAME(), FORMAT() FOR GETTING THE MONTHNAME.....BUT FOR POSTGRESQL USERS YOU HAVE TO USE TO\_CHAR().









# THANK YOU

TO SEE MORE OF THESE KINDS OF CHALLENGES, FOLLOW ME .....

