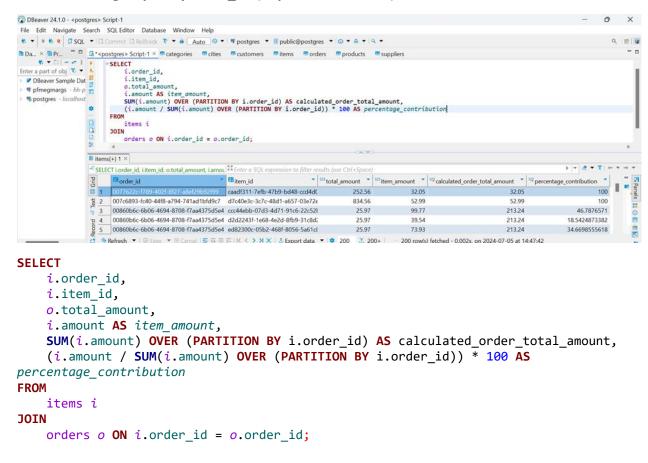
BWT Task-04 Exercise

Submitted By: ABRAR SAEED

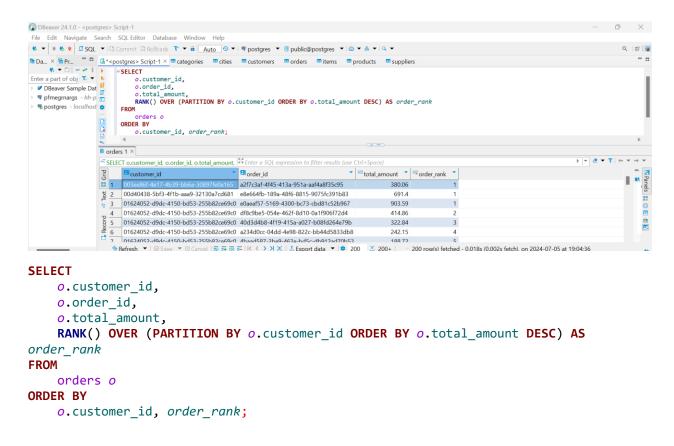
Q1

Write a query to calculate the percentage contribution of each item's amount to its order's total amount, grouped by order_id. (Topics: Partition BY)



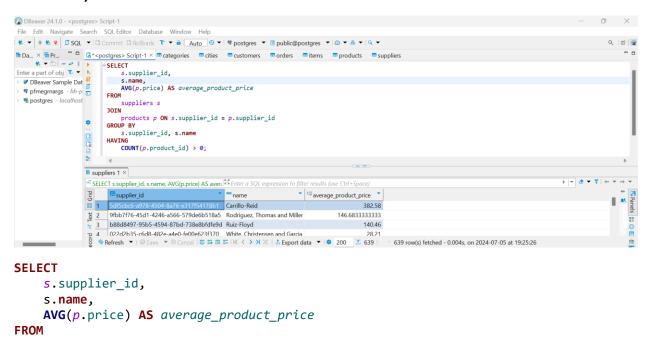
Q2

Write a query to rank orders by their total amount within each customer, ordering them from highest to lowest total amount. (Topics: Window functions like RANK, PARTITION BY, and ORDER BY)



Q3

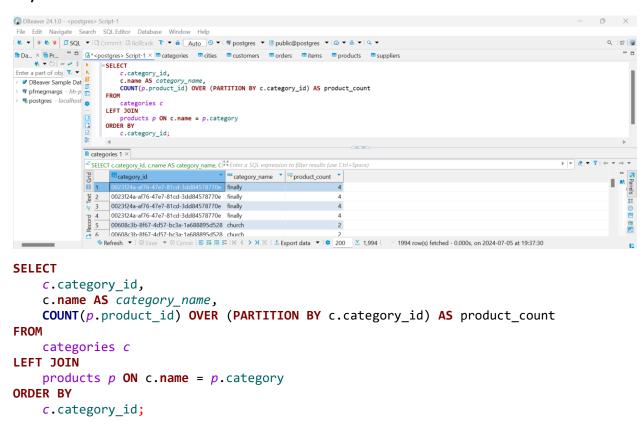
Write a query to calculate the average price of products supplied by each supplier. Exclude suppliers who have no products in the result. (Topics: JOINS, AGGREGATE FUNCTIONS, GROUP BY)



```
suppliers s
JOIN
    products p ON s.supplier_id = p.supplier_id
GROUP BY
    s.supplier_id, s.name
HAVING
    COUNT(p.product_id) > 0;
```

Q4

Write a query to count the number of products in each category. Include categories with zero products in the result set. (WINDOW FUNCTIONS, AGGREGATE FUNCTIONS, JOINS, GROUP BY)



Q5

Write a query to retrieve the total amount spent by each customer, along with their name and phone number. Ensure customers with no orders also appear with a total amount of 0. (WINDOW FUNCTIONS, AGGREGATE FUNCTIONS, JOINS, GROUP BY)

```
□WITH total spent AS (
     SELECT
         customer_id,
         SUM(total_amount) AS total_amount_spent
     FROM
         orders
     GROUP BY
         customer_id
 SELECT
     c.customer_id,
     c.name AS customer name,
     c.phone,
     COALESCE(ts.total_amount_spent, 0) AS total_amount_spent
 FROM
     customers c
 LEFT JOIN
     total_spent ts ON c.customer_id = ts.customer_id
 ORDER BY
     c.customer_id;
```

```
■ customers 1 ×
oT WITH total_spent AS ( SELECT customer_id, SUM(to ка Enter a SQL expression to filter results (use Ctrl+Space)
                                      customer name ABC phone
                                                                      total_amount_spent
       <sup>□</sup> customer_id
       003ee86f-4e17-4b39-bb6a-30897fe0a165 Timothy Hall
                                                       +1-585-798-5830x891
                                                                                     380.06
                                                     001-574-844-6809x741
       00c2f7f4-c4df-4be2-952e-2191a2f97fe2 Sandra Scott
                                                                                        0
   4 00d40438-5bf3-4f1b-aaa9-32130a7cd681 Alvssa Howe
                                                      (344)681-2421
                                                                                      691.4
   5 00d89950-1c32-49c7-8373-b9a51109cac0 Erin Ward
                                                   +1-640-549-0044
   6 01624052-d9dc-4150-bd53-255b82ce69c0 Heather Cox
                                                      353.683.5816x9857
                                                                                    2 072 16
       017058e3-3c0b-4f2f-a359-06cba4a8b5ff Lindsay Jacobs
                                                     395.874.3265x706
                                                                                    2,004.14
       01709227-2d44-4801-991d-93f9e253838d Sarah Aguilar
                                                      (638)344-6371x517
   9 01e21aec-f14b-4290-b2c5-365415aa917f Paul Johnson
                                                                                     455.66
                                                     (619)226-8584x07891
   10 02330f3a-f0ff-48b8-93a2-708dac55911c John Nguyen
                                                                                     867.46
   11 02c4bd08-eaf8-4d05-ba5b-ccc7c8b719ec Rick Dunlap
                                                      410-229-8067x48037
                                                                                       0
   ** Refresh ▼ : ○ Save ▼ ☑ Cancel : ➡ 栞 등 등 : K < > > ☑ : 1 Export data ▼ : ‡ 200 🛣 1,000 : ---
                                                                                   1000 row(s) fetched - 0.003s, on 2024-07-05 at 19:51:57
WITH total_spent AS (
     SELECT
           customer_id,
           SUM(total amount) AS total amount spent
     FROM
           orders
     GROUP BY
           customer_id
)
SELECT
     c.customer id,
     c.name AS customer_name,
     COALESCE(ts.total_amount_spent, 0) AS total_amount_spent
FROM
     customers c
LEFT JOIN
     total_spent ts ON c.customer_id = ts.customer_id
ORDER BY
```

c.customer id;