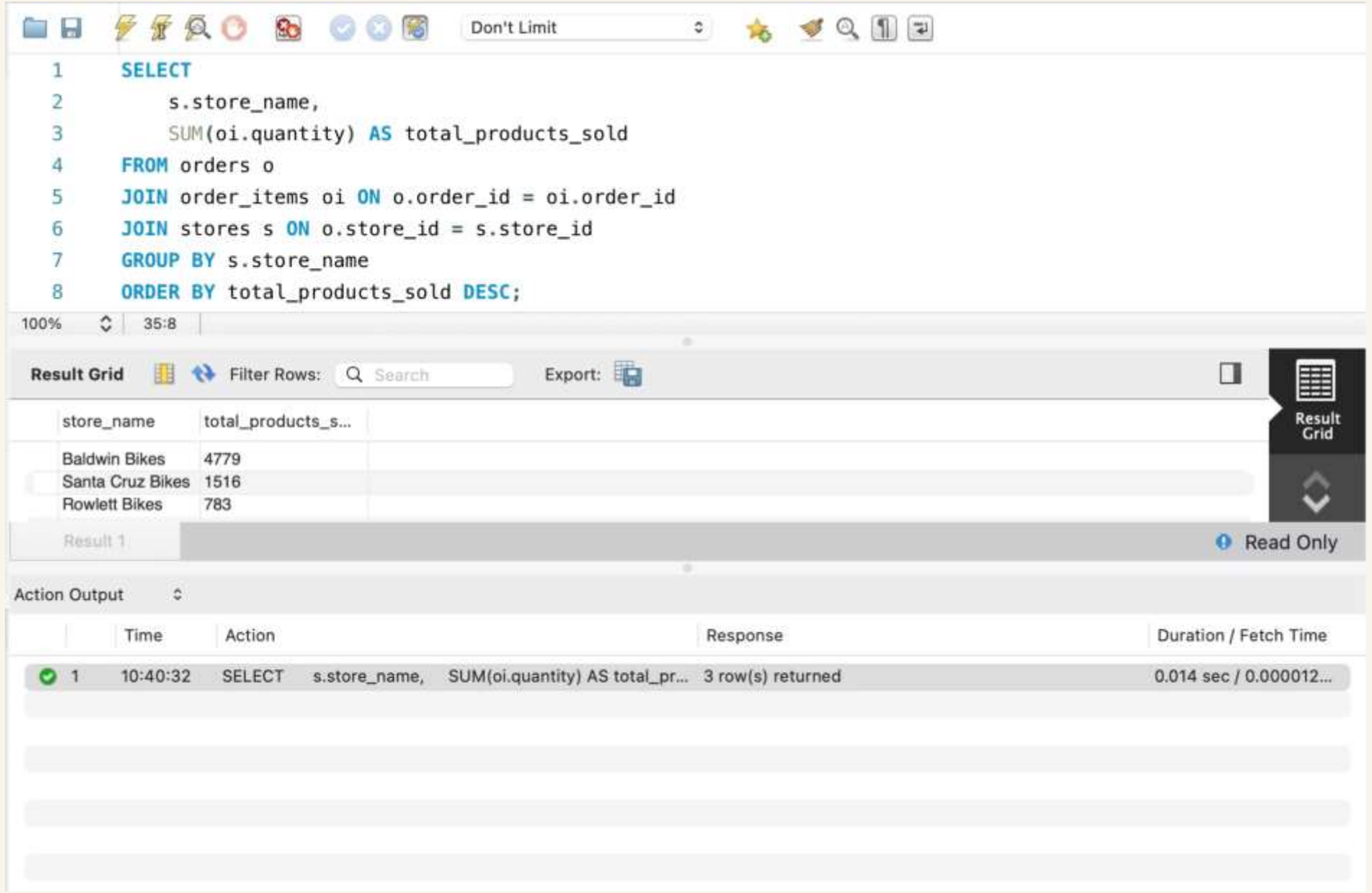
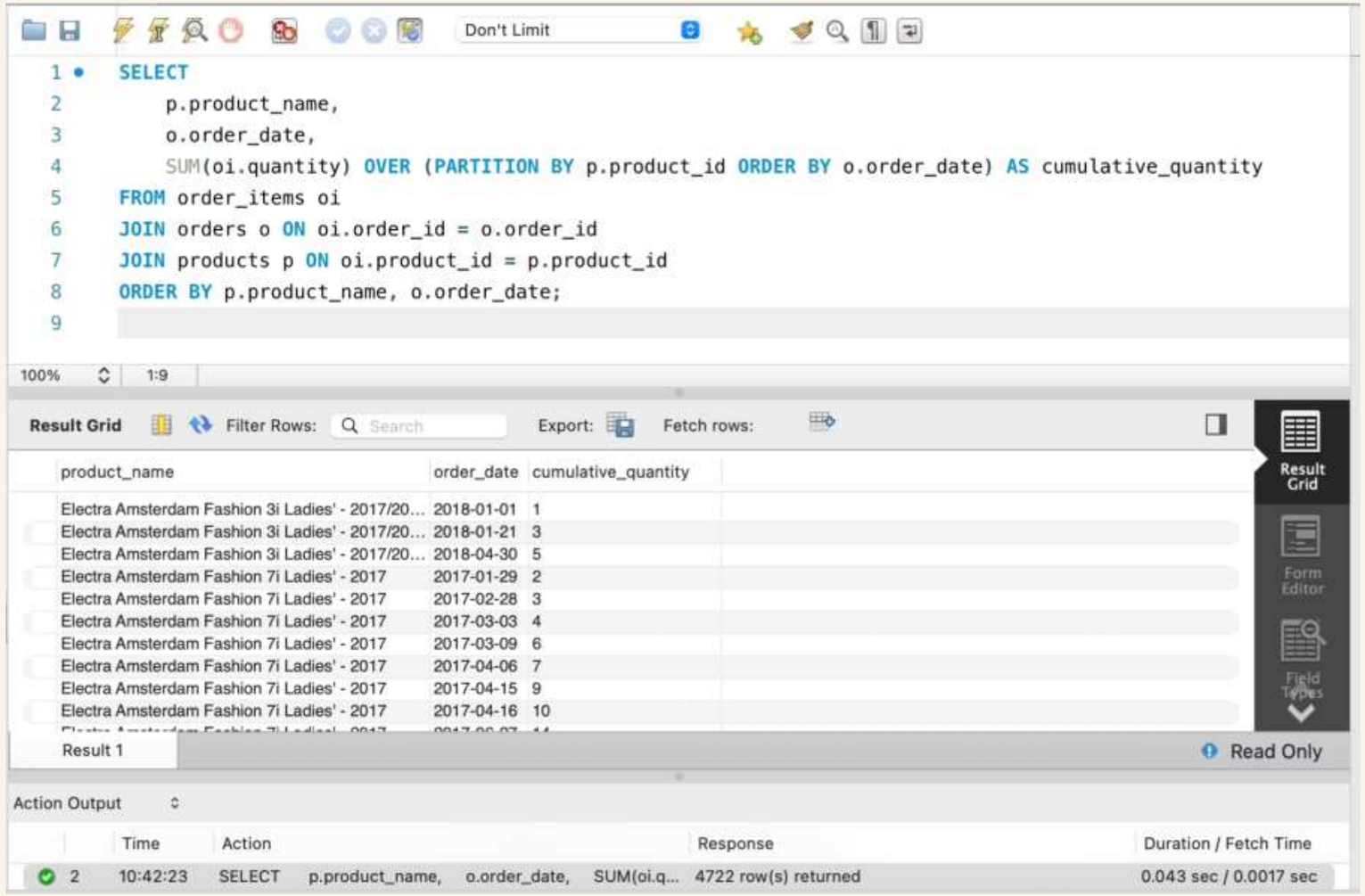
Jenson USA: America's Premier Online Cycling Store

Discover the legacy of Jenson USA, a pioneer in online cycling retail, dedicated to providing exceptional service and an expansive selection of products to the cycling community across America.

1.Find the total number of products sold by each store along with the store name



2.Calculate the cumulative sum of quantities sold for each product over time



3.Find the product with the highest total sales (quantity * price) for each category

```sql
WITH prod_sales AS (
  SELECT
    p.product_id,
    p.product_name,
    p.category_id,
    SUM(oi.quantity * oi.list_price) AS total_sales
  FROM order_items oi
  JOIN products p ON oi.product_id = p.product_id
  GROUP BY p.product_id, p.product_name, p.category_id
),
ranked AS (
  SELECT
    ps.*,
    ROW_NUMBER() OVER (PARTITION BY ps.category_id ORDER BY ps.total_sales DESC) AS rn
  FROM prod_sales ps
)
SELECT
  c.category_name,
  r.product_name,
  r.total_sales
FROM ranked r
JOIN categories c ON r.category_id = c.category_id
WHERE r.rn = 1
ORDER BY c.category_name;
```

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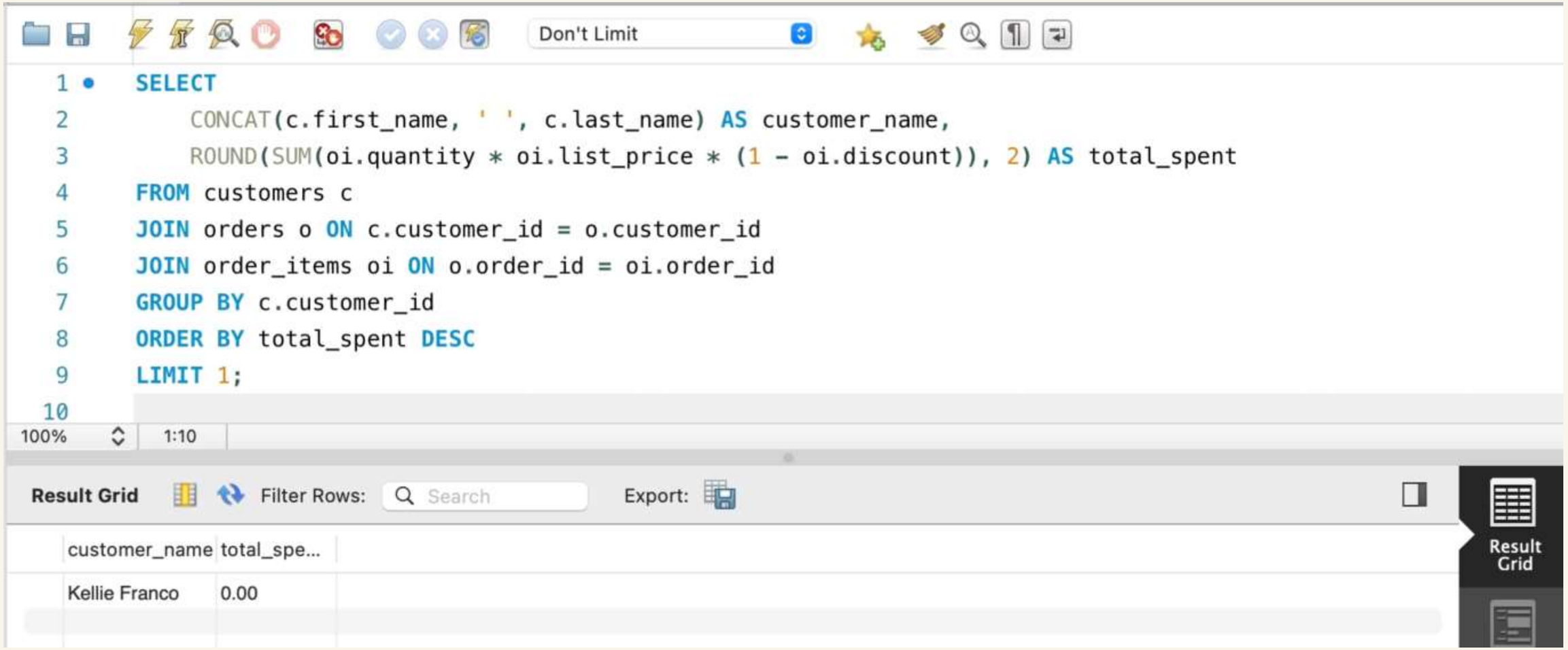
Result Grid Filter Rows: Search Export:

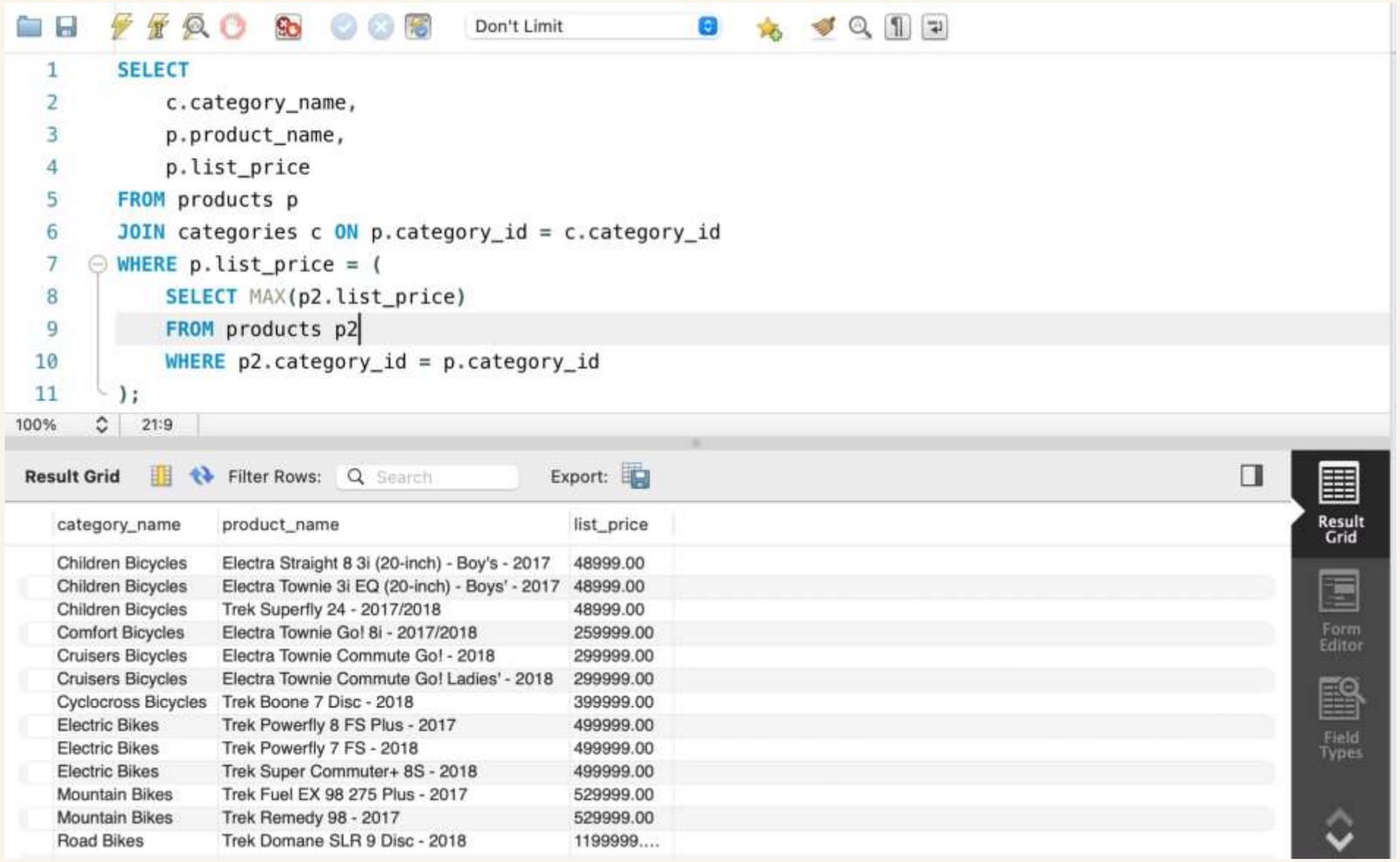
category_name	product_name	total_sales

Result Grid

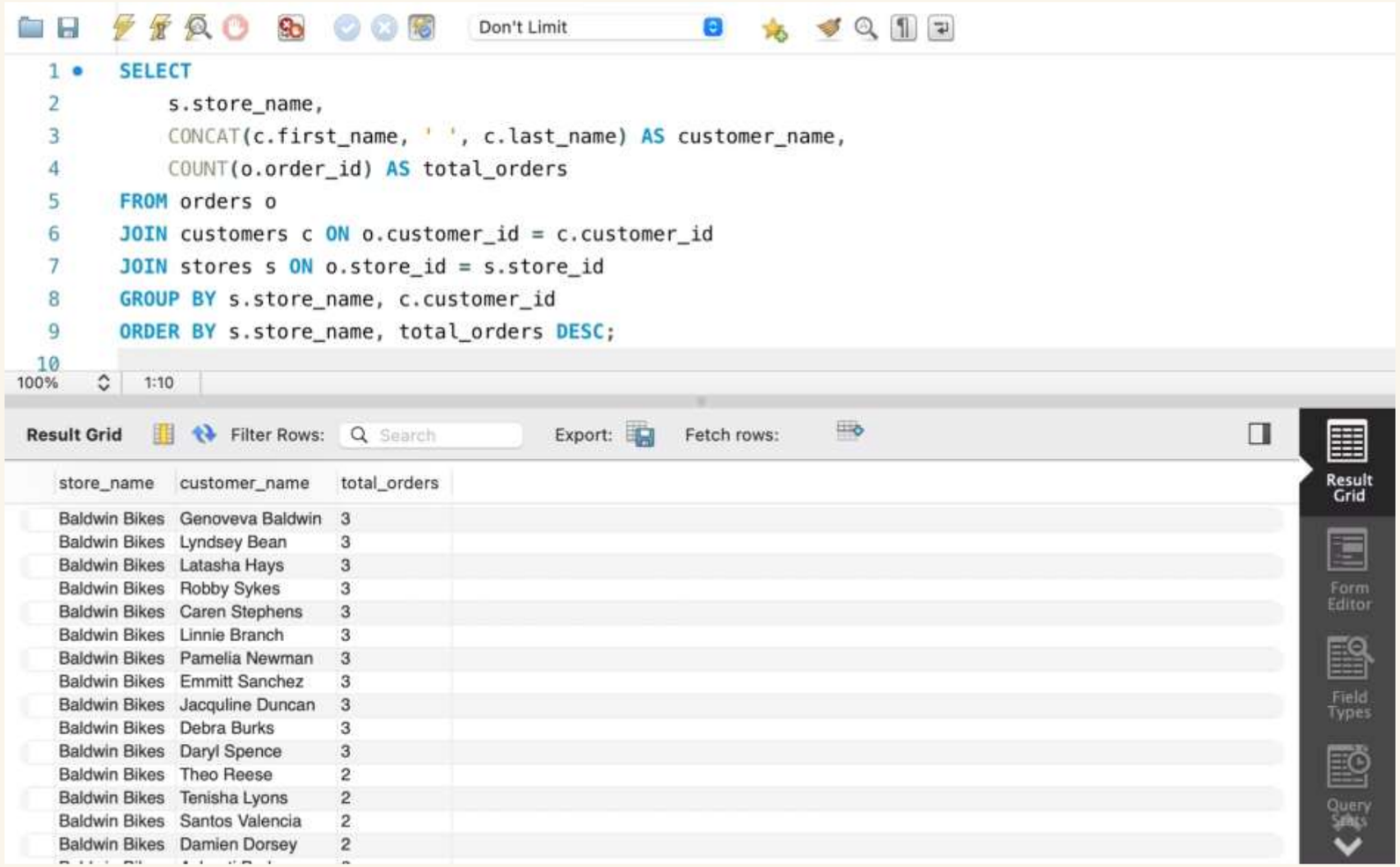
4.Find the customer who spent the most money on orders



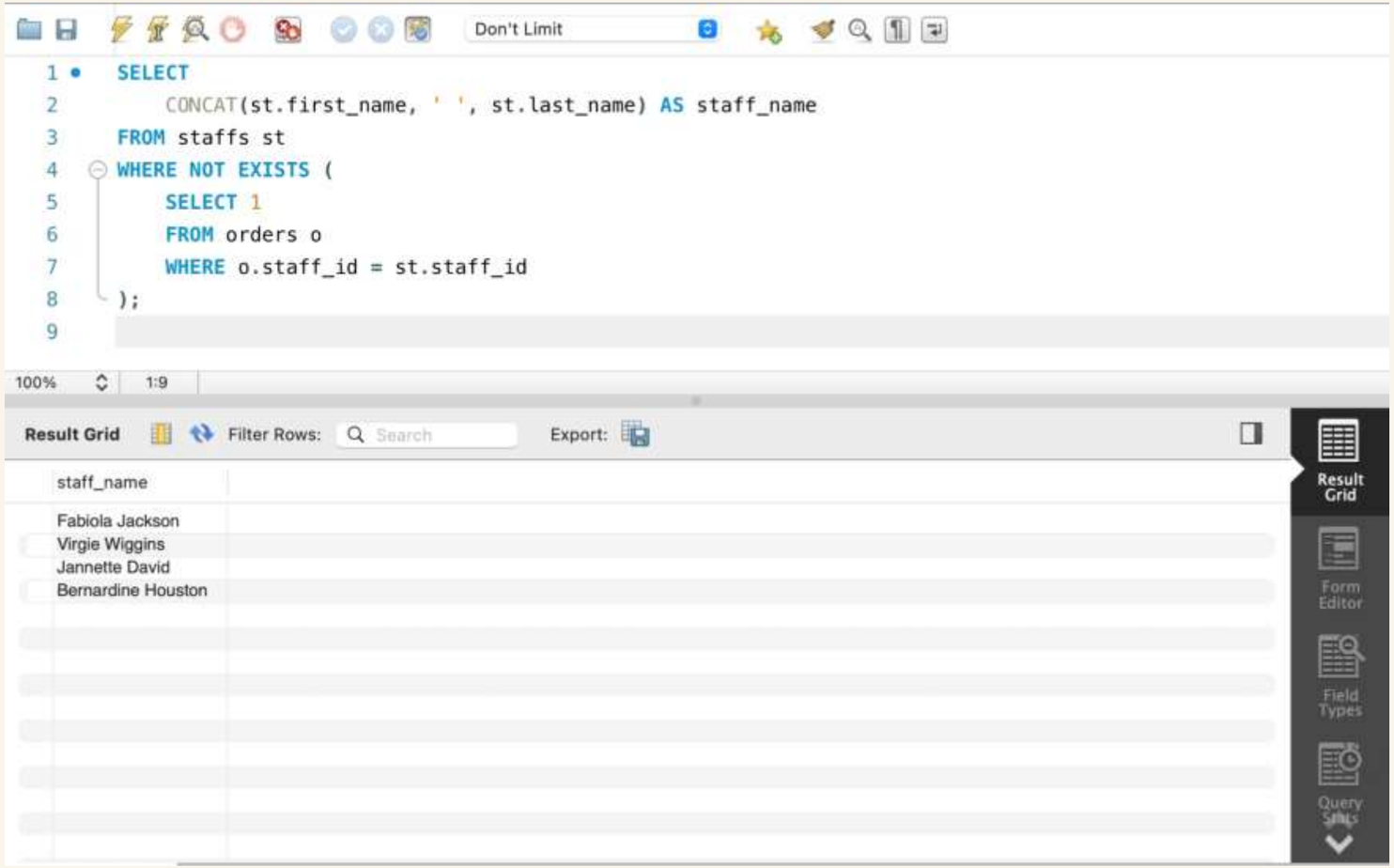
5.Find the highest-priced product for each category name



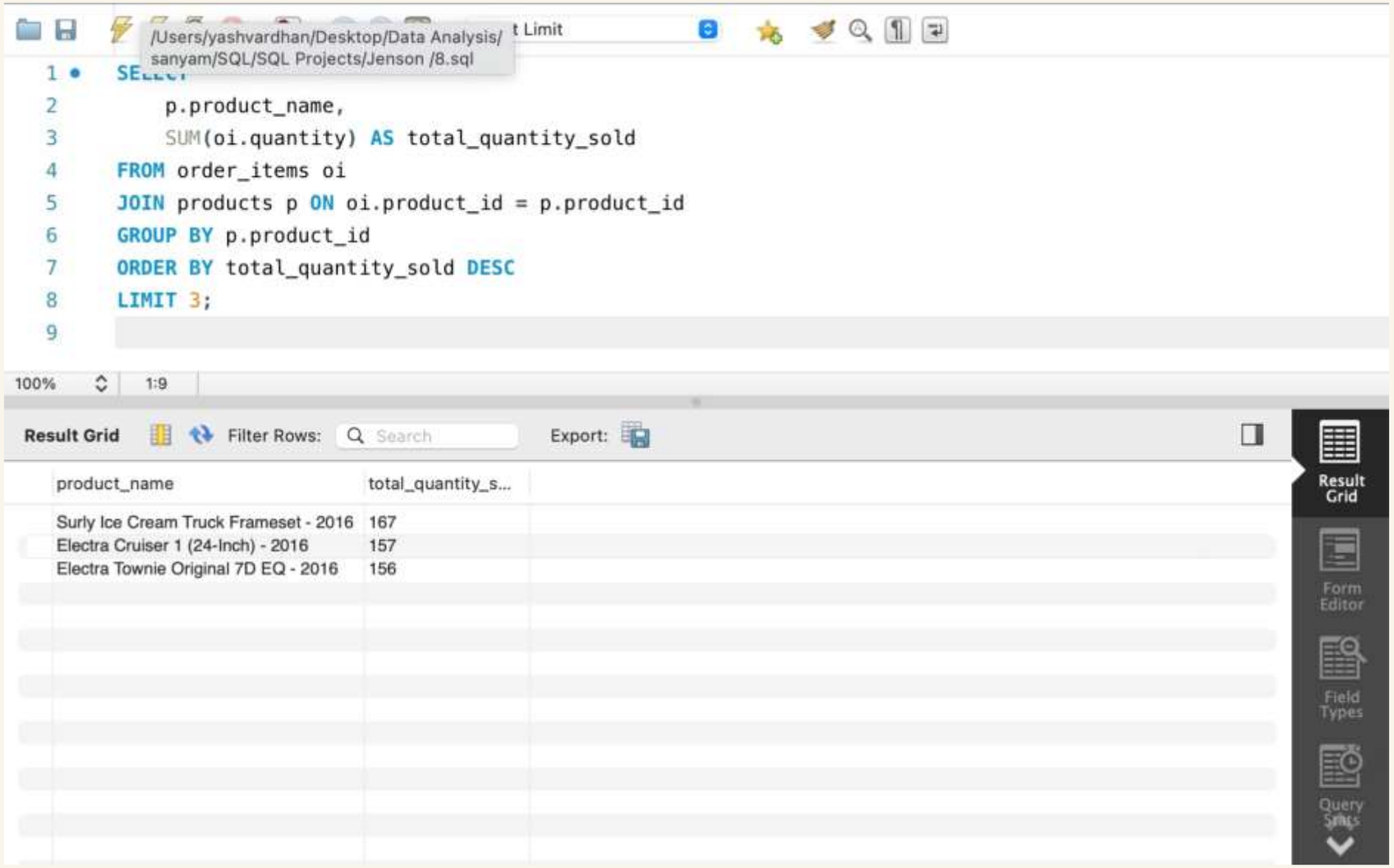
6.Find the total number of orders placed by each customer per store



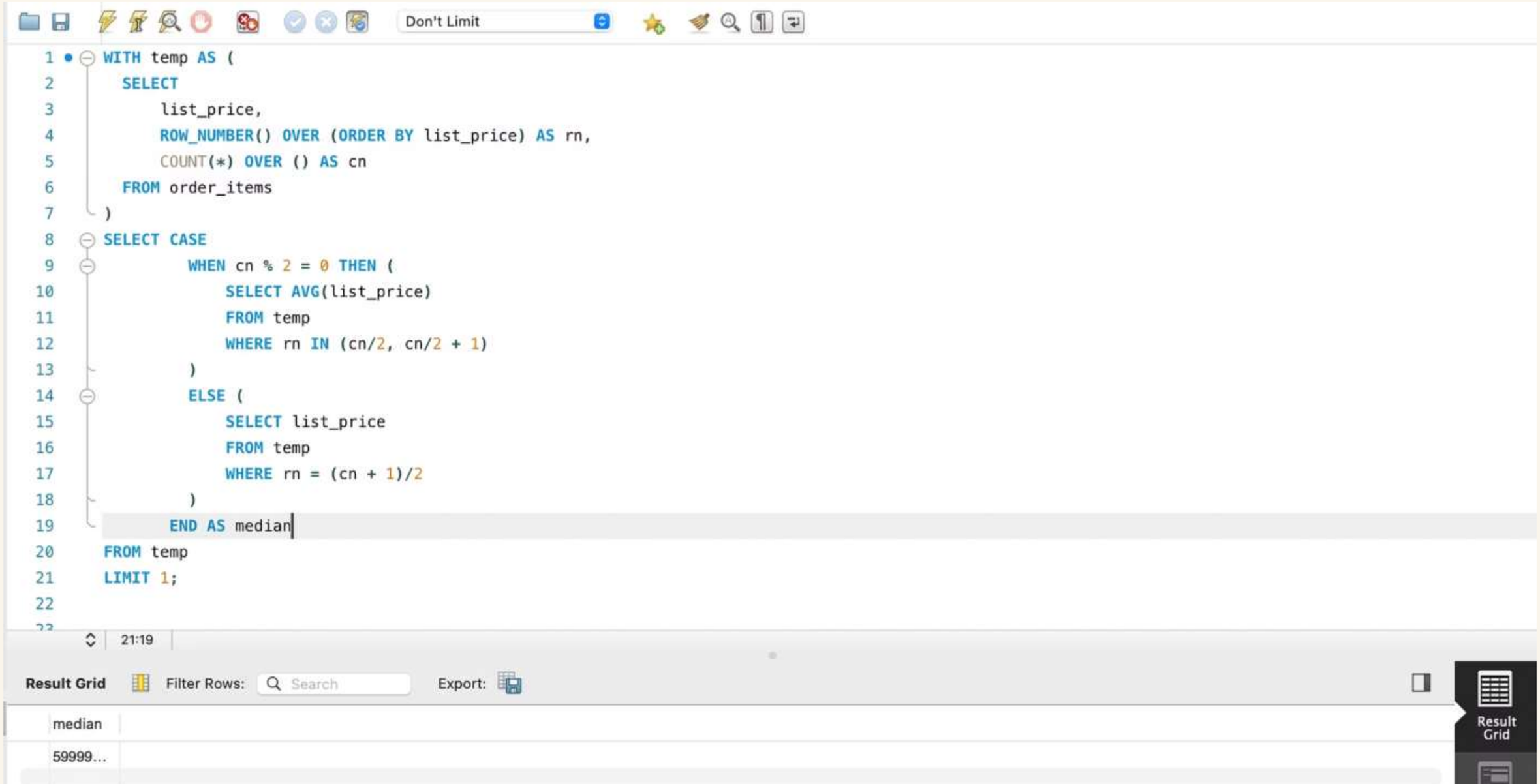
7.Find the names of staff members who have not made any sales



8.Find the top 3 most sold products in terms of quantity



9.Find the median value of the price list



```sql
WITH temp AS (
  SELECT
      list_price,
      ROW_NUMBER() OVER (ORDER BY list_price) AS rn,
      COUNT(*) OVER () AS cn
  FROM order_items
)
SELECT CASE
         WHEN cn % 2 = 0 THEN (
             SELECT AVG(list_price)
             FROM temp
             WHERE rn IN (cn/2, cn/2 + 1)
         )
         ELSE (
             SELECT list_price
             FROM temp
             WHERE rn = (cn + 1)/2
         )
       END AS median
FROM temp
LIMIT 1;
```

Don't Limit

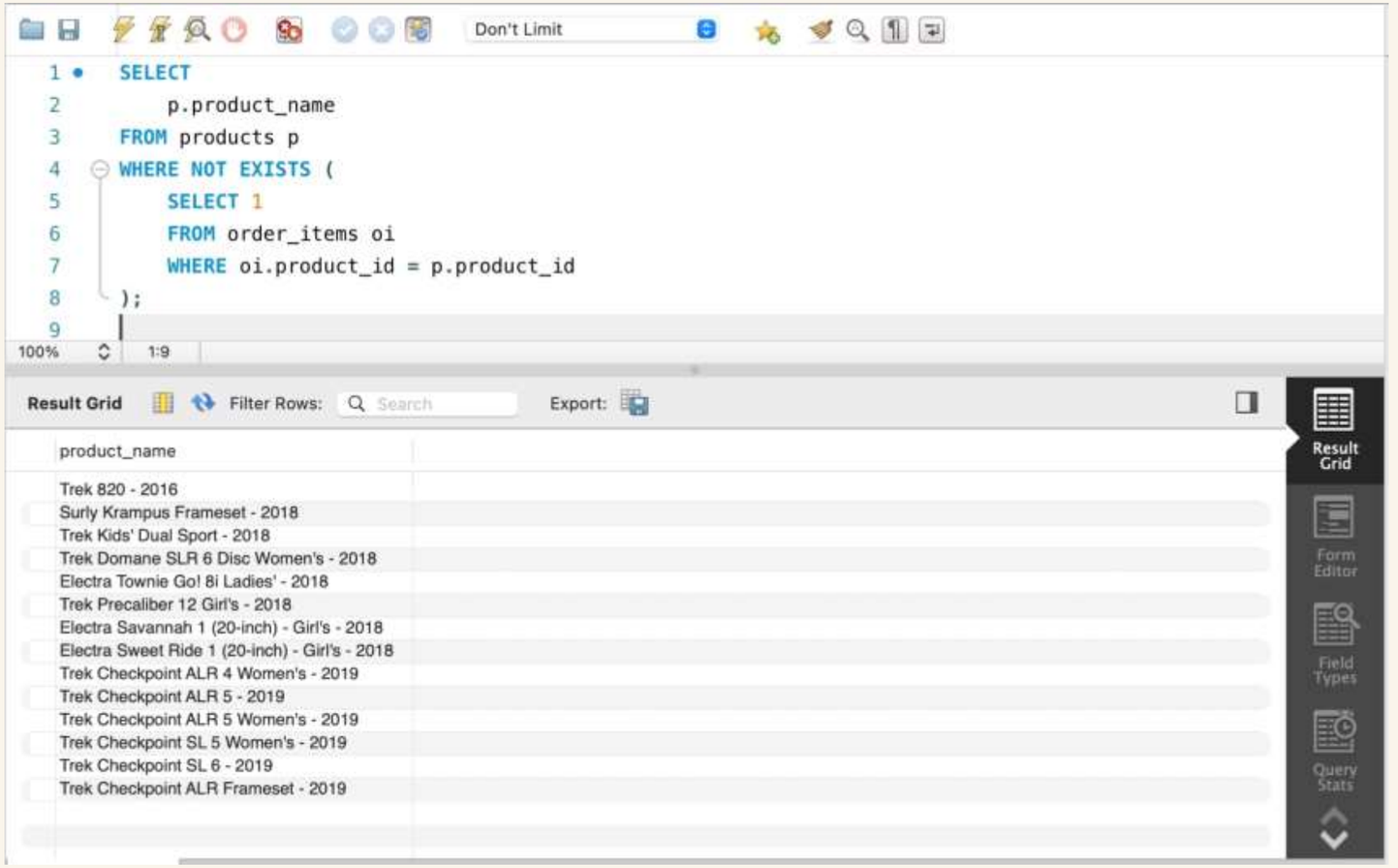
21:19

Result Grid | Filter Rows: Search | Export:

median
59999...

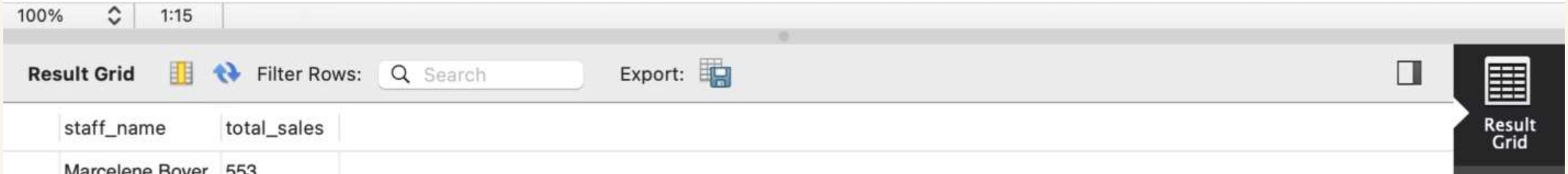
Result Grid

10.List all products that have never been ordered (use EXISTS)

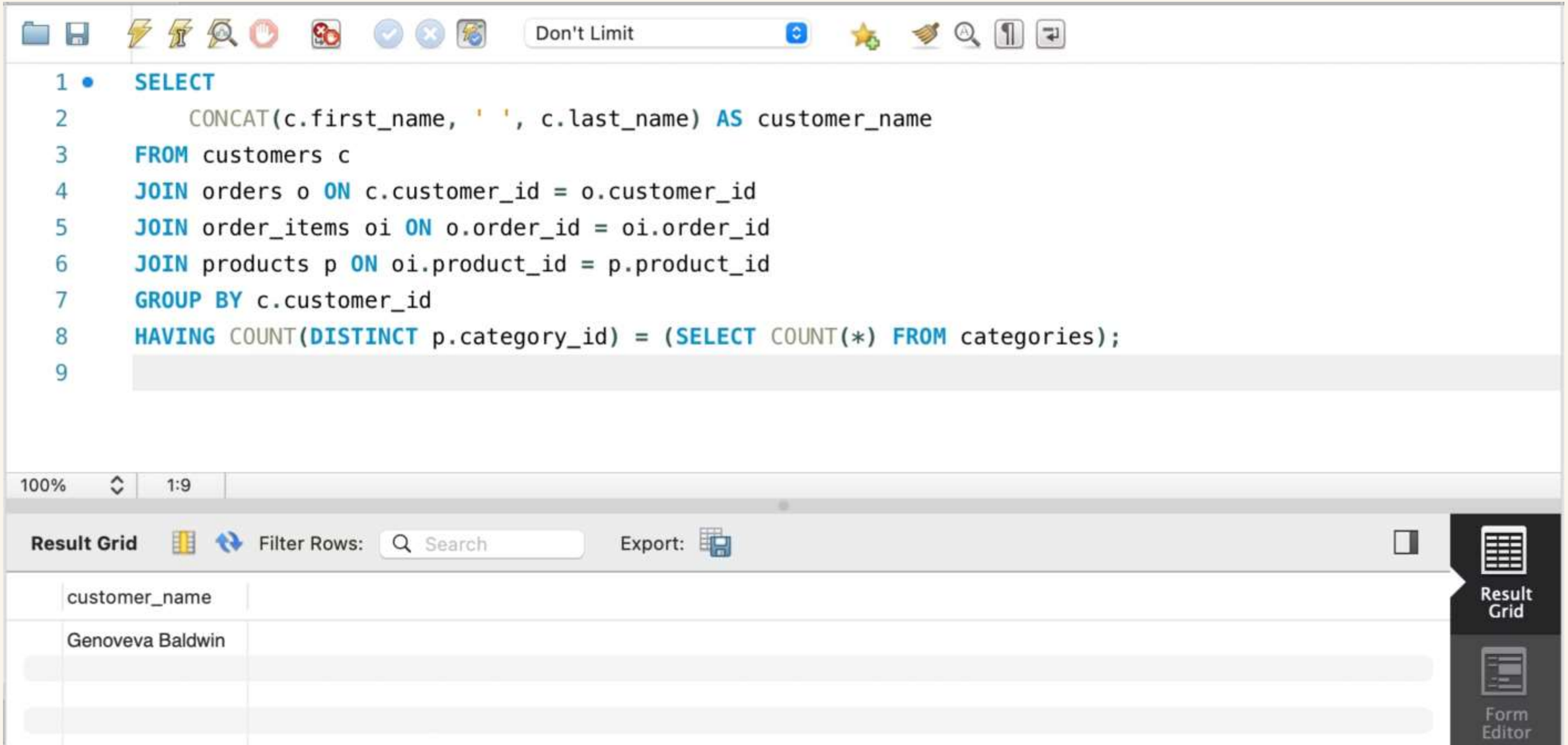


11.List the names of staff members who have made more sales than the average number of sales by all staff members

```sql
SELECT
    CONCAT(st.first_name, ' ', st.last_name) AS staff_name,
    COUNT(o.order_id) AS total_sales
FROM staffs st
JOIN orders o ON st.staff_id = o.staff_id
GROUP BY st.staff_id
HAVING COUNT(o.order_id) > (
    SELECT AVG(staff_sales)
    FROM (
        SELECT COUNT(o2.order_id) AS staff_sales
        FROM orders o2
        GROUP BY o2.staff_id
    ) AS avg_sales
);
```



12.Identify the customers who have ordered all types of products (from every category)



Thank You!

By Sanyam Sharma