



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

```
1  SELECT
2      s.store_name,
3      SUM(oi.quantity) AS total_products_sold
4  FROM orders o
5  JOIN order_items oi ON o.order_id = oi.order_id
6  JOIN stores s ON o.store_id = s.store_id
7  GROUP BY s.store_name
8  ORDER BY total_products_sold DESC;
```

100% 35:8

Result Grid Filter Rows: Search Export:

store_name	total_products_s...
Baldwin Bikes	4779
Santa Cruz Bikes	1516
Rowlett Bikes	783

Result 1 Read Only

Action Output

	Time	Action	Response	Duration / Fetch Time
1	10:40:32	SELECT s.store_name, SUM(oi.quantity) AS total_pr...	3 row(s) returned	0.014 sec / 0.000012...

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

Don't Limit

```

1 • SELECT
2     p.product_name,
3     o.order_date,
4     SUM(oi.quantity) OVER (PARTITION BY p.product_id ORDER BY o.order_date) AS cumulative_quantity
5 FROM order_items oi
6 JOIN orders o ON oi.order_id = o.order_id
7 JOIN products p ON oi.product_id = p.product_id
8 ORDER BY p.product_name, o.order_date;
9

```

100%

1:9

Result Grid

Filter Rows:

Export:

Fetch rows:

product_name	order_date	cumulative_quantity
Electra Amsterdam Fashion 3i Ladies' - 2017/20...	2018-01-01	1
Electra Amsterdam Fashion 3i Ladies' - 2017/20...	2018-01-21	3
Electra Amsterdam Fashion 3i Ladies' - 2017/20...	2018-04-30	5
Electra Amsterdam Fashion 7i Ladies' - 2017	2017-01-29	2
Electra Amsterdam Fashion 7i Ladies' - 2017	2017-02-28	3
Electra Amsterdam Fashion 7i Ladies' - 2017	2017-03-03	4
Electra Amsterdam Fashion 7i Ladies' - 2017	2017-03-09	6
Electra Amsterdam Fashion 7i Ladies' - 2017	2017-04-06	7
Electra Amsterdam Fashion 7i Ladies' - 2017	2017-04-15	9
Electra Amsterdam Fashion 7i Ladies' - 2017	2017-04-16	10
Electra Amsterdam Fashion 7i Ladies' - 2017	2017-06-07	11

Result 1

Read Only

Action Output

Time

Action

Response

Duration / Fetch Time

2	10:42:23	SELECT p.product_name, o.order_date, SUM(oi.q...	4722 row(s) returned	0.043 sec / 0.0017 sec
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3. Find the product with the highest total sales (quantity * price) for each category

```
1  WITH prod_sales AS (  
2      SELECT  
3          p.product_id,  
4          p.product_name,  
5          p.category_id,  
6          SUM(oi.quantity * oi.list_price) AS total_sales  
7      FROM order_items oi  
8      JOIN products p ON oi.product_id = p.product_id  
9      GROUP BY p.product_id, p.product_name, p.category_id  
10 ),  
11 ranked AS (  
12     SELECT  
13         ps.*,  
14         ROW_NUMBER() OVER (PARTITION BY ps.category_id ORDER BY ps.total_sales DESC) AS rn  
15     FROM prod_sales ps  
16 )  
17 SELECT  
18     c.category_name,  
19     r.product_name,  
20     r.total_sales  
21 FROM ranked r  
22 JOIN categories c ON r.category_id = c.category_id  
23 WHERE r.rn = 1  
24 ORDER BY c.category_name;  
25
```

100% 1:25

Result Grid



Filter Rows:



Search

Export:



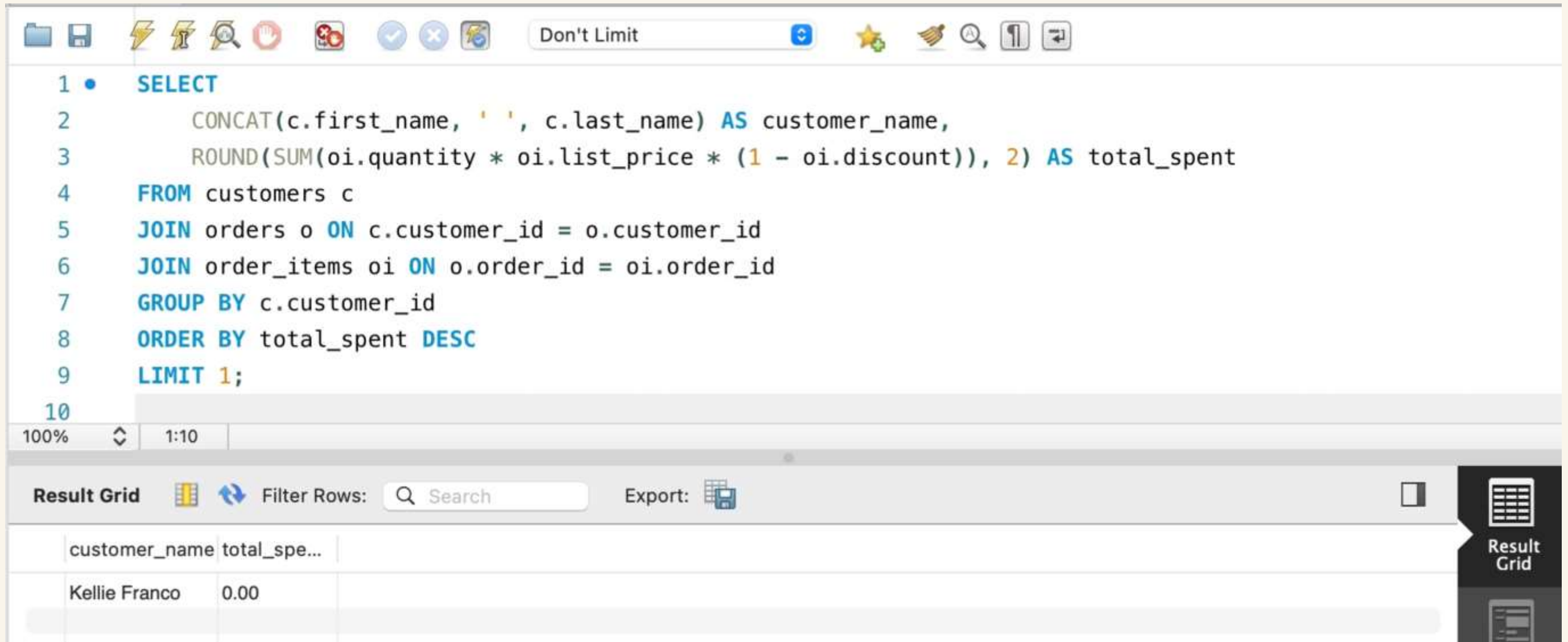
category_name

product_name

total_sales

Result
Grid

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



The screenshot shows a SQL IDE interface with a query editor and a result grid. The query is as follows:

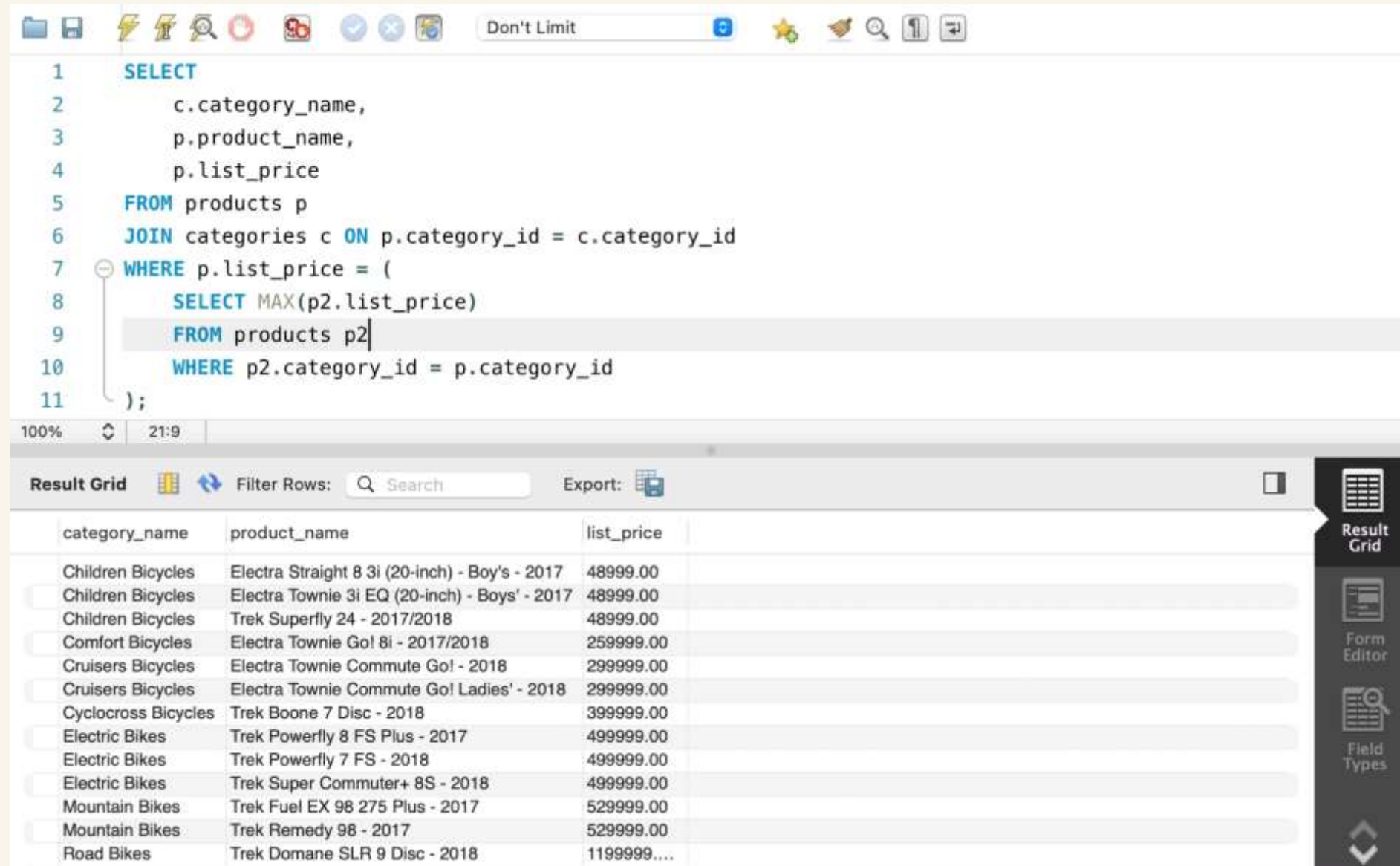
```
1 • SELECT
2     CONCAT(c.first_name, ' ', c.last_name) AS customer_name,
3     ROUND(SUM(oi.quantity * oi.list_price * (1 - oi.discount)), 2) AS total_spent
4 FROM customers c
5 JOIN orders o ON c.customer_id = o.customer_id
6 JOIN order_items oi ON o.order_id = oi.order_id
7 GROUP BY c.customer_id
8 ORDER BY total_spent DESC
9 LIMIT 1;
```

The result grid shows the following data:

customer_name	total_spe...
Kellie Franco	0.00

The interface includes a toolbar at the top with various icons for file operations, execution, and search. The bottom of the interface features a 'Result Grid' tab, a 'Filter Rows' search bar, and an 'Export' button.

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



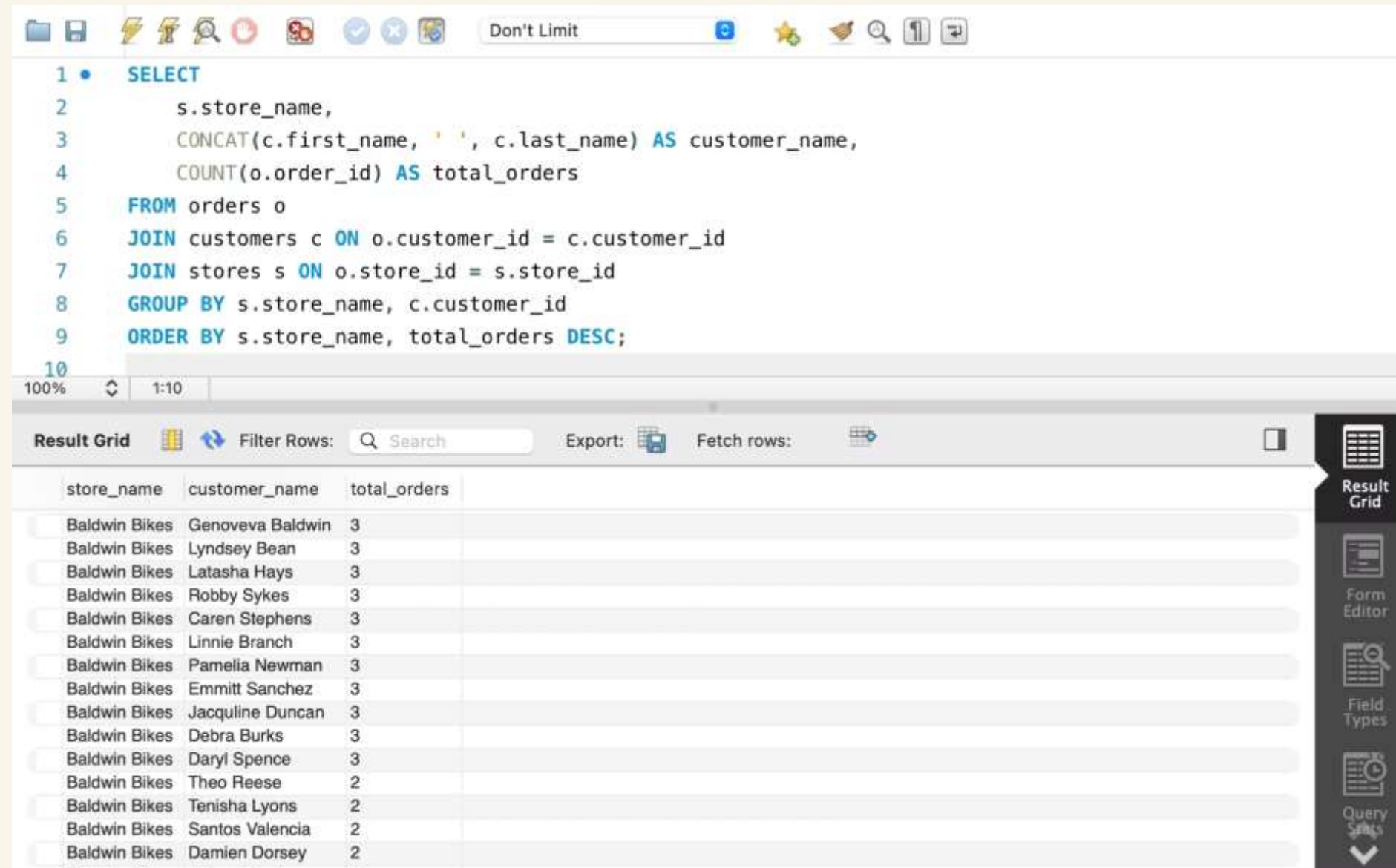
The screenshot shows a SQL IDE interface with a query editor and a result grid. The query is designed to find the highest-priced product for each category name by joining the products table with the categories table and using a subquery to determine the maximum price for each category.

```
1  SELECT
2      c.category_name,
3      p.product_name,
4      p.list_price
5  FROM products p
6  JOIN categories c ON p.category_id = c.category_id
7  WHERE p.list_price = (
8      SELECT MAX(p2.list_price)
9      FROM products p2
10     WHERE p2.category_id = p.category_id
11 );
```

The result grid displays the following data:

category_name	product_name	list_price
Children Bicycles	Electra Straight 8 3i (20-inch) - Boy's - 2017	48999.00
Children Bicycles	Electra Townie 3i EQ (20-inch) - Boys' - 2017	48999.00
Children Bicycles	Trek Superfly 24 - 2017/2018	48999.00
Comfort Bicycles	Electra Townie Go! 8i - 2017/2018	259999.00
Cruisers Bicycles	Electra Townie Commute Go! - 2018	299999.00
Cruisers Bicycles	Electra Townie Commute Go! Ladies' - 2018	299999.00
Cyclocross Bicycles	Trek Boone 7 Disc - 2018	399999.00
Electric Bikes	Trek Powerfly 8 FS Plus - 2017	499999.00
Electric Bikes	Trek Powerfly 7 FS - 2018	499999.00
Electric Bikes	Trek Super Commuter+ 8S - 2018	499999.00
Mountain Bikes	Trek Fuel EX 98 275 Plus - 2017	529999.00
Mountain Bikes	Trek Remedy 98 - 2017	529999.00
Road Bikes	Trek Domane SLR 9 Disc - 2018	1199999.00

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



```
1 • SELECT
2     s.store_name,
3     CONCAT(c.first_name, ' ', c.last_name) AS customer_name,
4     COUNT(o.order_id) AS total_orders
5 FROM orders o
6 JOIN customers c ON o.customer_id = c.customer_id
7 JOIN stores s ON o.store_id = s.store_id
8 GROUP BY s.store_name, c.customer_id
9 ORDER BY s.store_name, total_orders DESC;
```

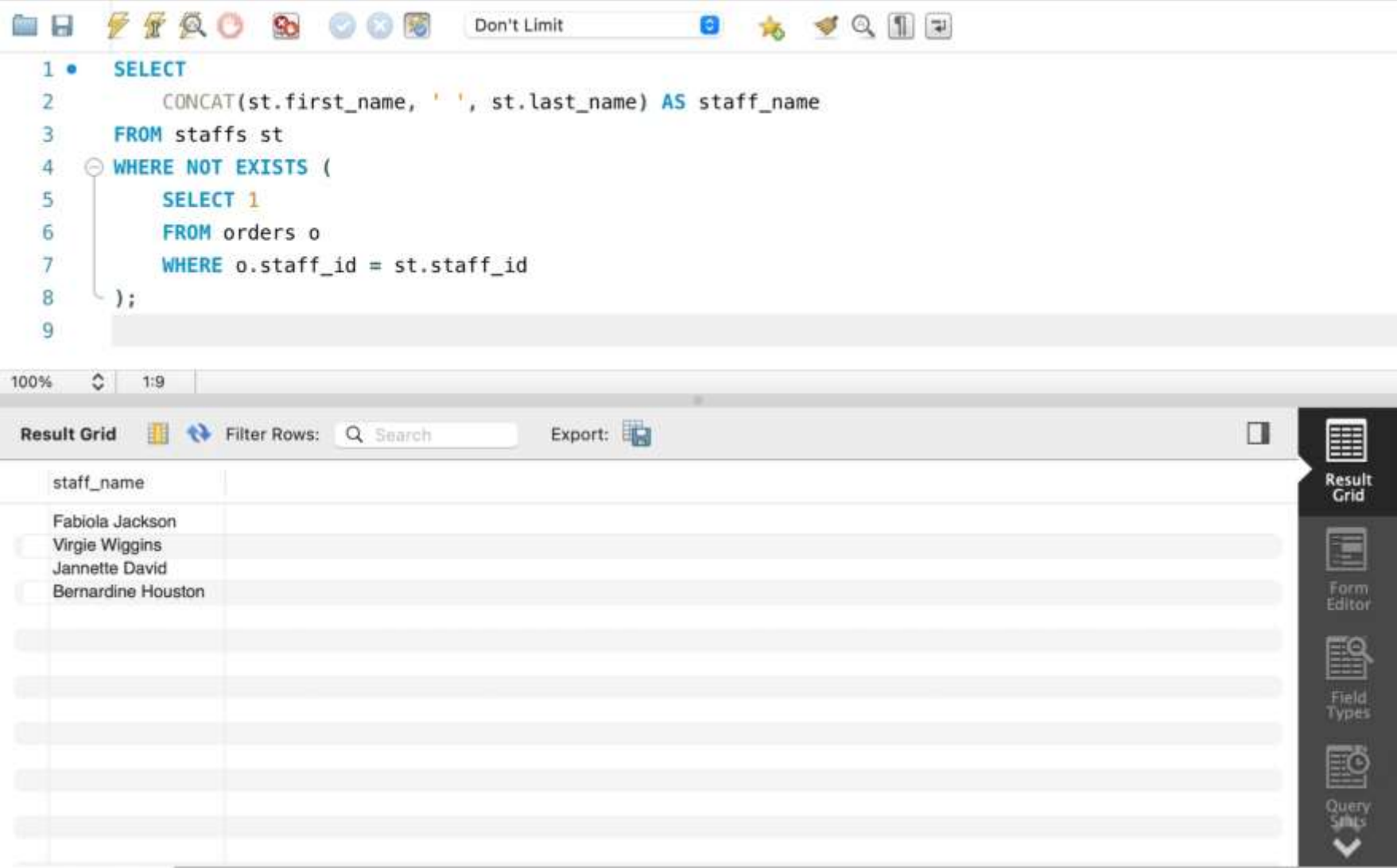
100% 1:10

Result Grid Filter Rows: Search Export: Fetch rows:

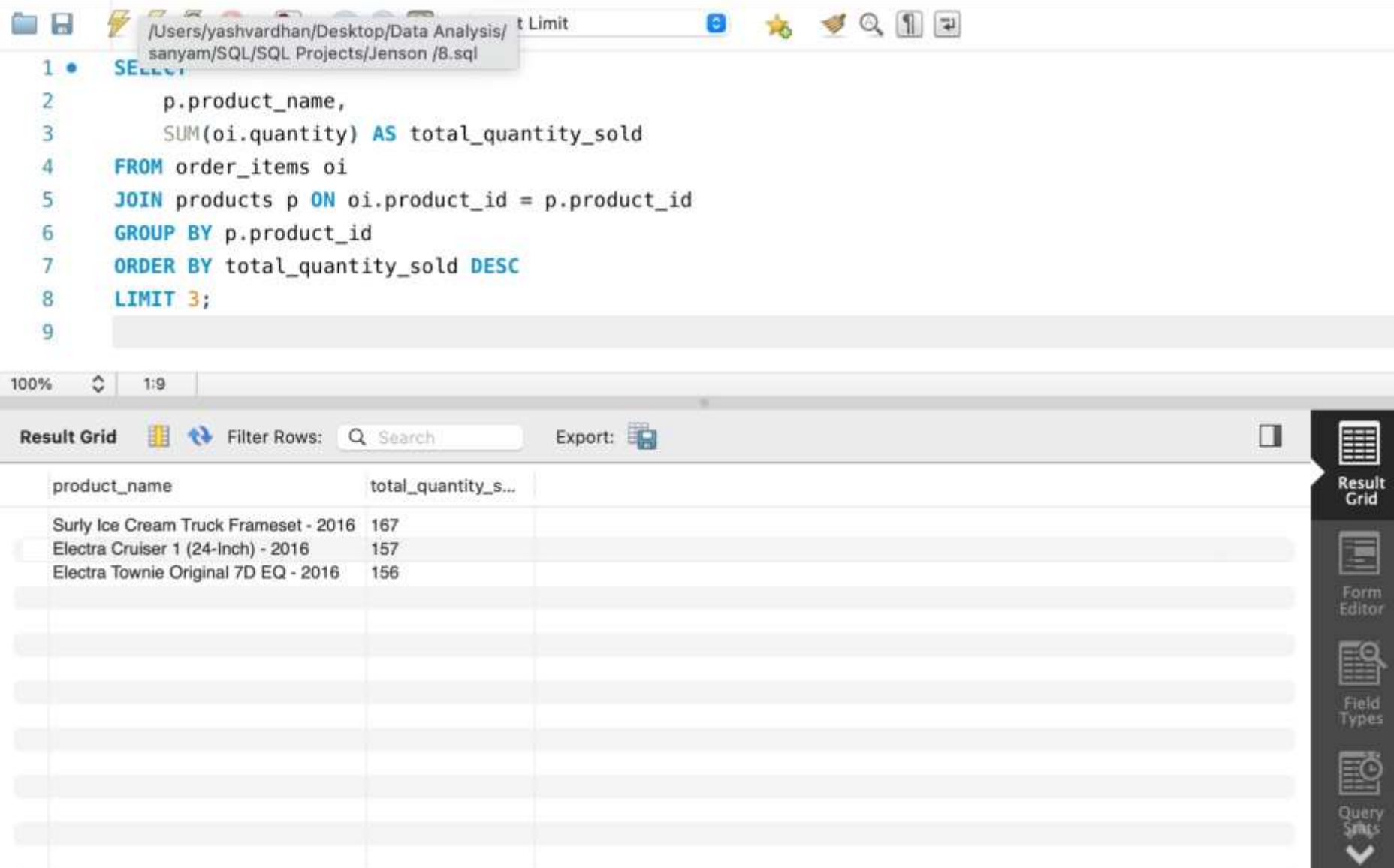
store_name	customer_name	total_orders
Baldwin Bikes	Genoveva Baldwin	3
Baldwin Bikes	Lyndsey Bean	3
Baldwin Bikes	Latasha Hays	3
Baldwin Bikes	Robby Sykes	3
Baldwin Bikes	Caren Stephens	3
Baldwin Bikes	Linnie Branch	3
Baldwin Bikes	Pamelia Newman	3
Baldwin Bikes	Emmitt Sanchez	3
Baldwin Bikes	Jacqueline Duncan	3
Baldwin Bikes	Debra Burks	3
Baldwin Bikes	Daryl Spence	3
Baldwin Bikes	Theo Reese	2
Baldwin Bikes	Tenisha Lyons	2
Baldwin Bikes	Santos Valencia	2
Baldwin Bikes	Damien Dorsey	2

Result Grid Form Editor Field Types Query Settings

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



The screenshot shows a SQL IDE window with a query editor and a result grid. The query is as follows:

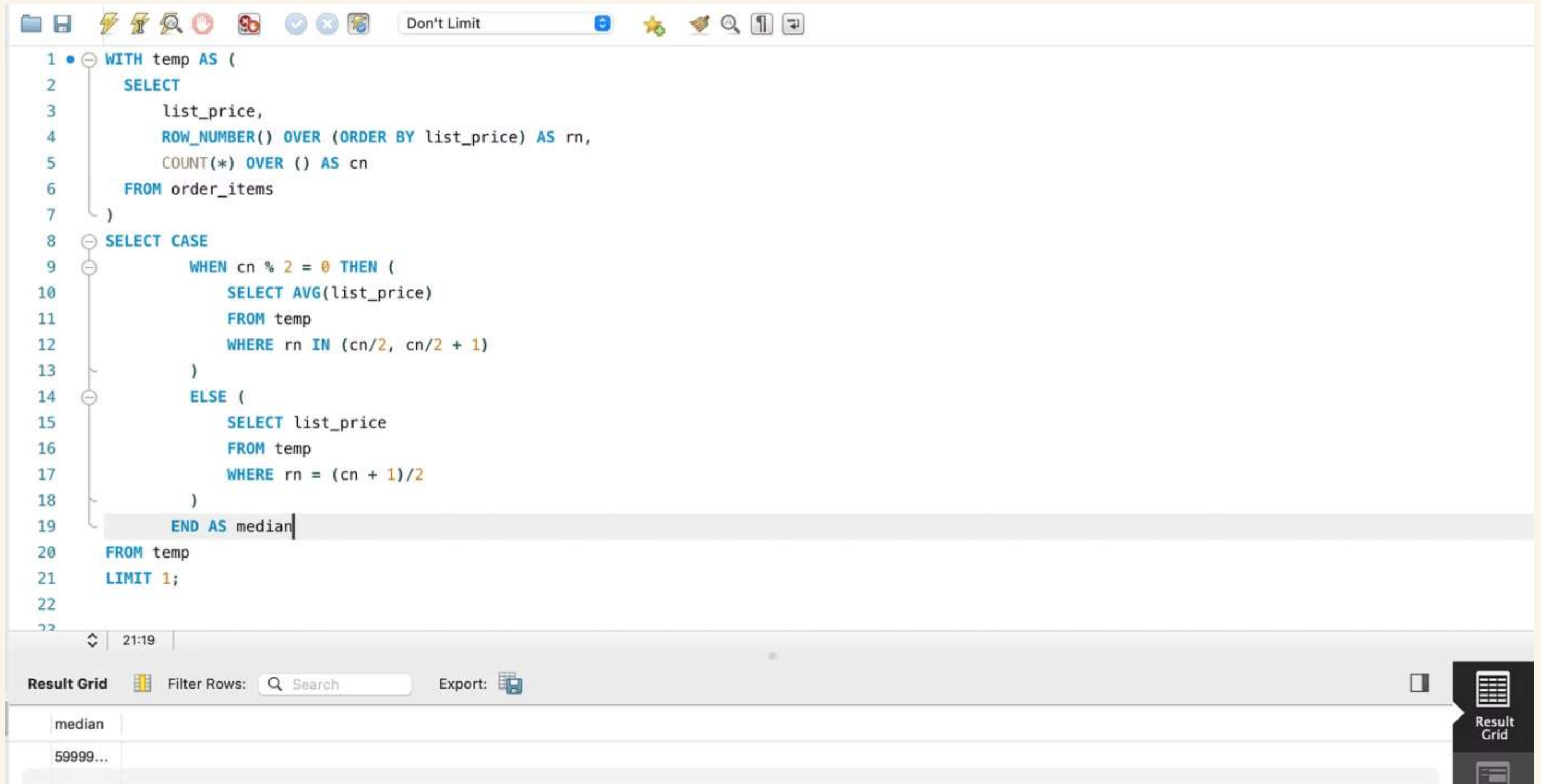
```
1 SELECT
2     p.product_name,
3     SUM(oi.quantity) AS total_quantity_sold
4 FROM order_items oi
5 JOIN products p ON oi.product_id = p.product_id
6 GROUP BY p.product_id
7 ORDER BY total_quantity_sold DESC
8 LIMIT 3;
9
```

The result grid displays the following data:

product_name	total_quantity_s...
Surly Ice Cream Truck Frameset - 2016	167
Electra Cruiser 1 (24-Inch) - 2016	157
Electra Townie Original 7D EQ - 2016	156

The IDE interface includes a toolbar at the top with icons for file operations, a search bar, and a sidebar on the right with icons for Result Grid, Form Editor, Field Types, and Query Snippets.

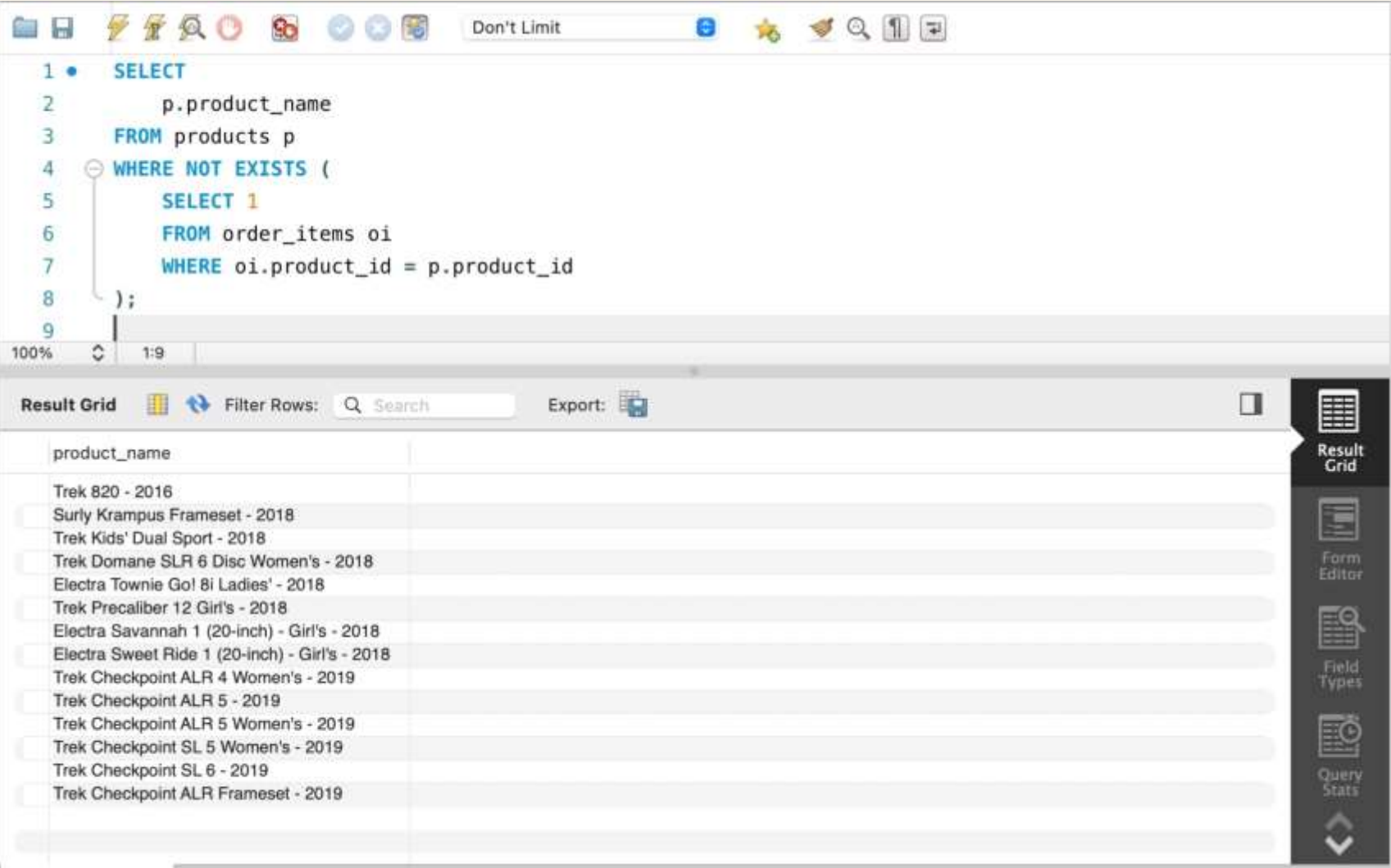
9. Find the median value of the price list



```
1 • WITH temp AS (  
2     SELECT  
3         list_price,  
4         ROW_NUMBER() OVER (ORDER BY list_price) AS rn,  
5         COUNT(*) OVER () AS cn  
6     FROM order_items  
7 )  
8 SELECT CASE  
9     WHEN cn % 2 = 0 THEN (  
10        SELECT AVG(list_price)  
11        FROM temp  
12        WHERE rn IN (cn/2, cn/2 + 1)  
13    )  
14    ELSE (  
15        SELECT list_price  
16        FROM temp  
17        WHERE rn = (cn + 1)/2  
18    )  
19 END AS median  
20 FROM temp  
21 LIMIT 1;  
22  
23
```

Result Grid

median
59999...



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

```
1 • SELECT
2     CONCAT(st.first_name, ' ', st.last_name) AS staff_name,
3     COUNT(o.order_id) AS total_sales
4 FROM staffs st
5 JOIN orders o ON st.staff_id = o.staff_id
6 GROUP BY st.staff_id
7 HAVING COUNT(o.order_id) > (
8     SELECT AVG(staff_sales)
9     FROM (
10         SELECT COUNT(o2.order_id) AS staff_sales
11         FROM orders o2
12         GROUP BY o2.staff_id
13     ) AS avg_sales
14 );
15
```

100% 1:15

Result Grid



Filter Rows:



Search

Export:



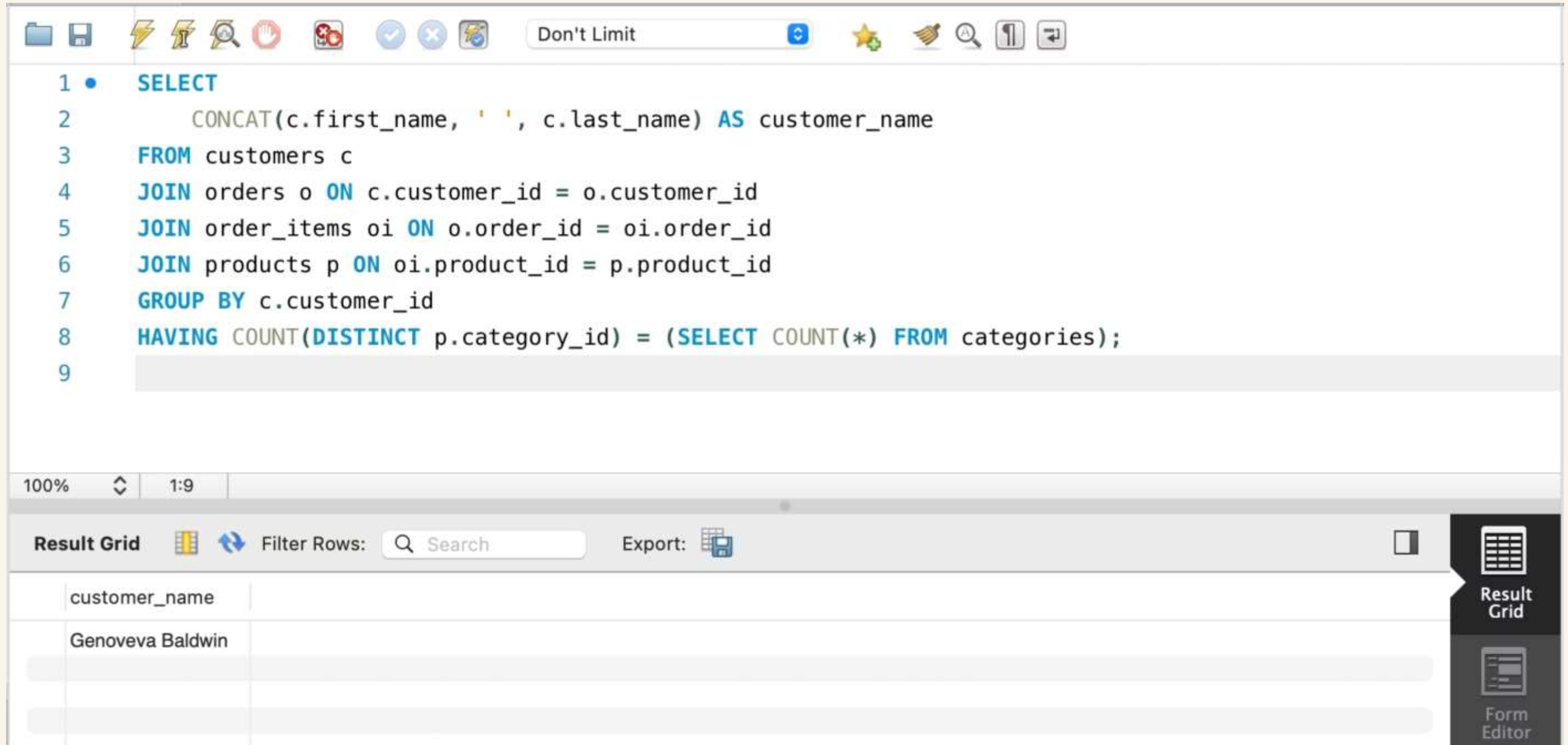
Result
Grid

staff_name

total_sales

Marcelene Boyer 553

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



The screenshot shows a SQL query editor interface. The query is as follows:

```
1 • SELECT
2     CONCAT(c.first_name, ' ', c.last_name) AS customer_name
3 FROM customers c
4 JOIN orders o ON c.customer_id = o.customer_id
5 JOIN order_items oi ON o.order_id = oi.order_id
6 JOIN products p ON oi.product_id = p.product_id
7 GROUP BY c.customer_id
8 HAVING COUNT(DISTINCT p.category_id) = (SELECT COUNT(*) FROM categories);
9
```

Below the query editor, there is a toolbar with icons for file operations, a search bar, and a "Don't Limit" button. The bottom section displays the "Result Grid" with the following data:

customer_name
Genoveva Baldwin

On the right side of the interface, there are buttons for "Result Grid" and "Form Editor".

Thank You!

Sharma

By Sanyam

