

ABOUT COMPANY

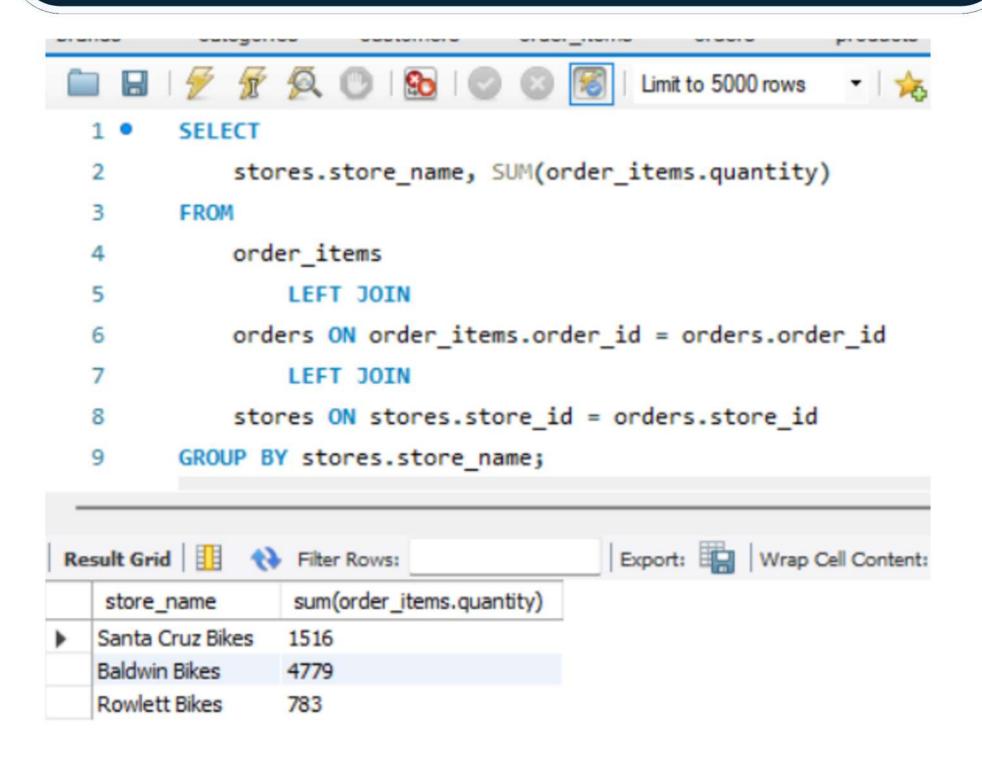
Jenson USA is a trusted American bicycle retailer founded in 1994, offering a wide range of bikes, parts, accessories, and gear both online and through physical stores. Known for its competitive pricing, fast shipping, and strong community involvement, Jenson USA has earned a solid reputation among cycling enthusiasts across the U.S.



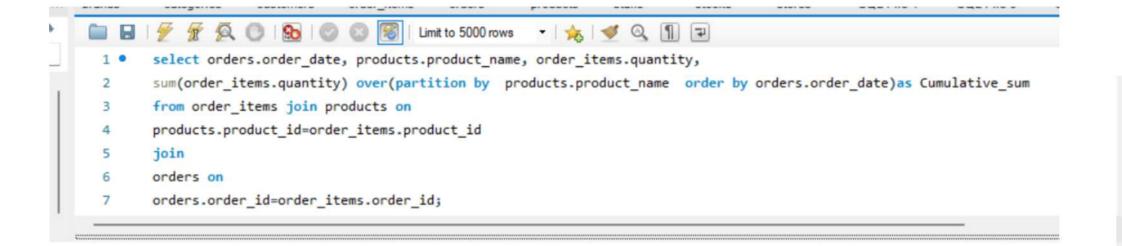
PROJECT OVERVIEW

This project involves analyzing sales and customer data from Jenson USA using SQL to generate key business insights. By applying advanced SQL techniques such as JOINs to combine data from multiple tables, Common Table Expressions (CTEs) for better query organization, and RANK functions for identifying top-performing products and customers, the project aims to uncover patterns in purchasing behavior, product popularity, and regional sales performance. The goal is to support data-driven decision-making and improve customer engagement strategies.

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

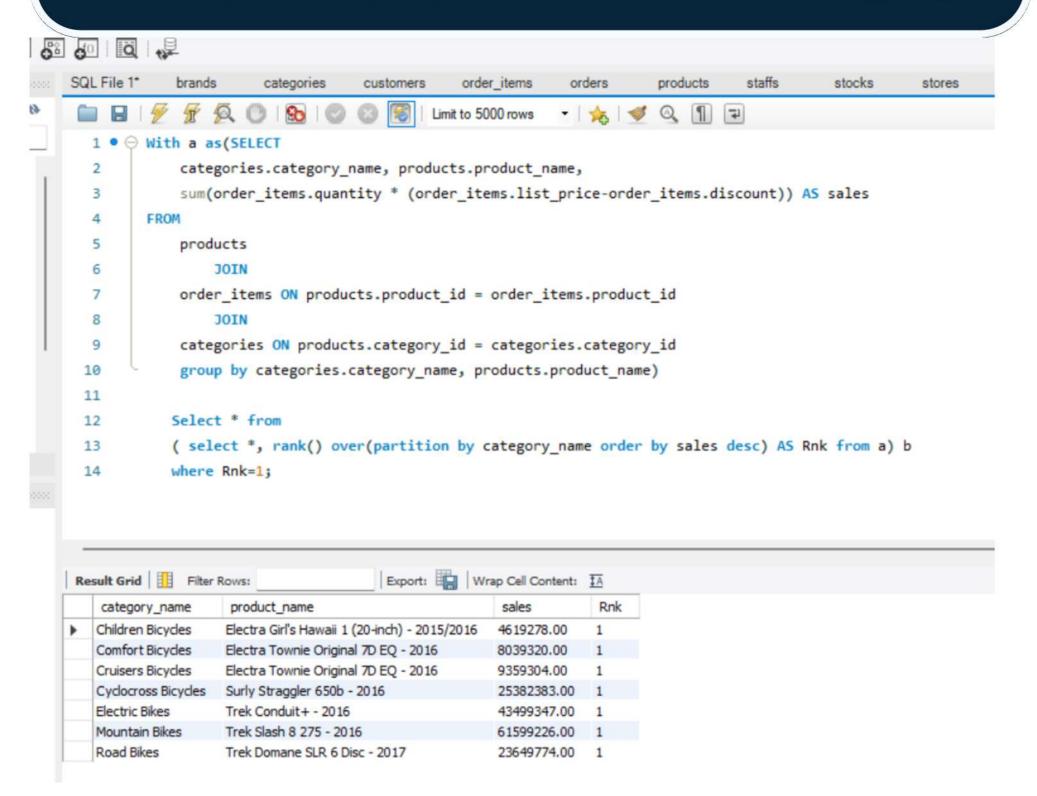


Calculate the cumulative sum of quantities sold for each product over time.



	order_date	product_name	quantity	Cumulative_sum
•	2018-01-01	Electra Amsterdam Fashion 3i Ladies' - 2017/2018	1	1
	2018-01-21	Electra Amsterdam Fashion 3i Ladies' - 2017/2018	2	3
	2018-04-30	Electra Amsterdam Fashion 3i Ladies' - 2017/2018	2	5
	2017-01-29	Electra Amsterdam Fashion 7i Ladies' - 2017	2	2
	2017-02-28	Electra Amsterdam Fashion 7i Ladies' - 2017	1	3
	2017-03-03	Electra Amsterdam Fashion 7i Ladies' - 2017	1	4
	2017-03-09	Electra Amsterdam Fashion 7i Ladies' - 2017	2	6
	2017-04-06	Electra Amsterdam Fashion 7i Ladies' - 2017	1	7
	2017-04-15	Electra Amsterdam Fashion 7i Ladies' - 2017	2	9
	2017-04-16	Electra Amsterdam Fashion 7i Ladies' - 2017	1	10
	2017-06-27	Electra Amsterdam Fashion 7i Ladies' - 2017	2	14
	2017-06-27	Electra Amsterdam Fashion 7i Ladies' - 2017	2	14
	2017-07-15	Electra Amsterdam Fashion 7i Ladies' - 2017	2	16
	2017-07-19	Electra Amsterdam Fashion 7i Ladies' - 2017	2	18
	2017-08-18	Electra Amsterdam Fashion 7i Ladies' - 2017	1	19
	2017-08-21	Electra Amsterdam Fashion 7i Ladies' - 2017	2	21
	2017-09-14	Electra Amsterdam Fashion 7i Ladies' - 2017	2	23
	2017-10-04	Electra Amsterdam Fashion 7i Ladies' - 2017	2	27
	2017-10-04	Electra Amsterdam Fashion 7i Ladies' - 2017	2	27
	2017-10-31	Electra Amsterdam Fashion 7i Ladies' - 2017	2	29
	2017-11-04	Electra Amsterdam Fashion 7i Ladies' - 2017	1	30
	2017-11-28	Electra Amsterdam Fashion 7i Ladies' - 2017	1	31
	2017-12-04	Electra Amsterdam Fashion 7i Ladies' - 2017	2	34

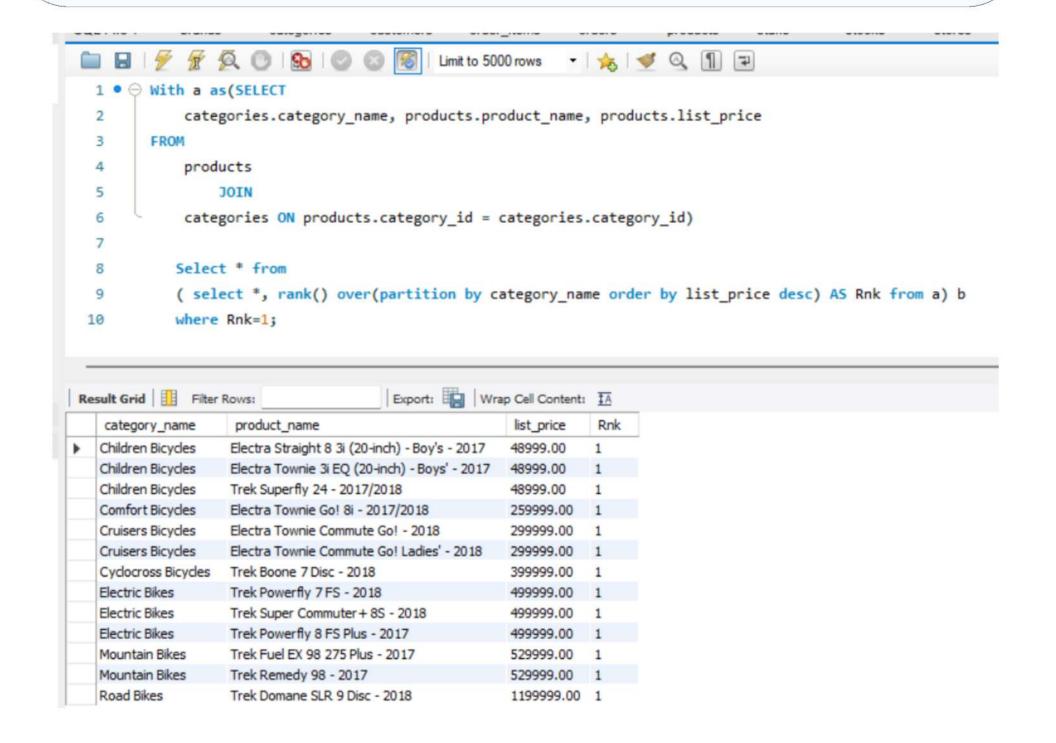
Find the product with the highest total sales (quantity * price) for each category.



Find the customer who spent the most money on orders.

```
Limit to 5000 rows
         With a As(select orders.customer_id, concat(customers.first_name, " ", customers.last_name) AS Full_Name,
          sum(order_items.quantity*(order_items.list_price-order_items.discount)) As Total_price
  2
         from orders join order_items on
  3
         orders.order_id=order_items.order_id join
         customers on
         orders.customer_id=customers.customer_id
  6
         group by orders.customer_id,
         concat(customers.first_name," ",customers.last_name)
  8
  9
 10
          Select * from
 11
            ( select *, rank() over(order by Total_price desc) AS Rnk from a) b
 12
 13
            where Rnk=1;
                                      Export: Wrap Cell Content: IA
Result Grid
              Filter Rows:
   customer_id
              Full_Name
                             Total_price
                                       Rnk
10
              Pamelia Newman
                            3780140.00
```

Find the highest-priced product for each category name.

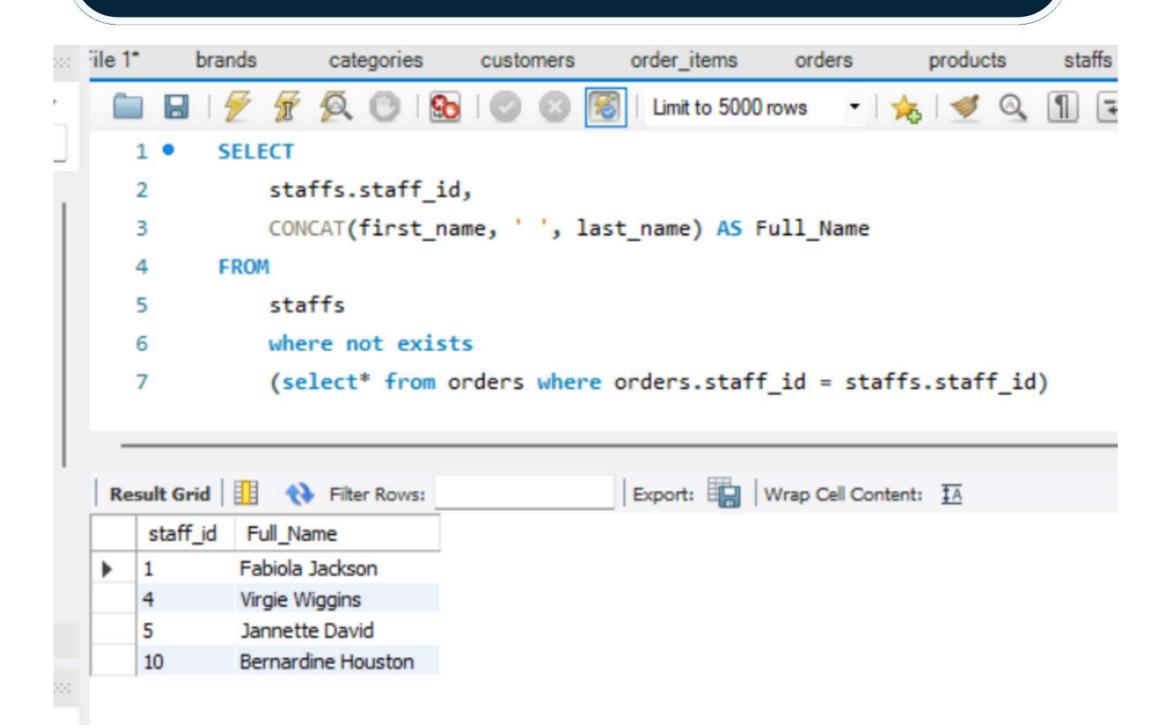


Find the total number of orders placed by each customer per store.

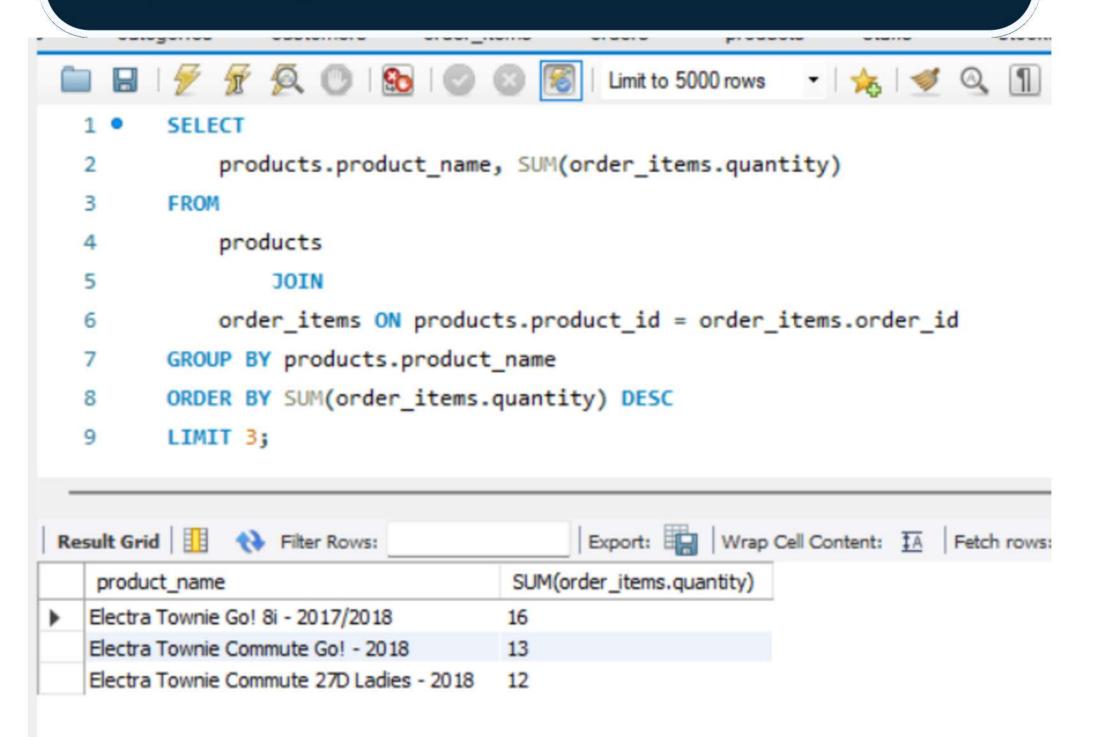
```
Limit to 5000 rows
       SELECT
           stores.store name,
           CONCAT(customers.first_name,
                   customers.last_name) AS Customer_name,
           COUNT(orders.order_id) Total_Orders
       FROM
8
           orders
9
               JOIN
           stores ON orders.store_id = stores.store_id
10
11
               JOIN
           customers ON orders.customer_id = customers.customer_id
12
    GROUP BY stores.store_name , CONCAT(customers.first_name,
14
               customers.last_name);
15
```

sult Grid	Filter Rows:	Expo
store_name	Customer_name	Total_Orders
Baldwin Bikes	Trinidad Chapman	1
Baldwin Bikes	Jeannie Wilcox	1
Baldwin Bikes	Max Charles	1
Baldwin Bikes	Bronwyn Vargas	1
Baldwin Bikes	Christia Wilkins	1
Baldwin Bikes	Aaron Knapp	1
Baldwin Bikes	Lavette Wright	1
Baldwin Bikes	Rosa Kinney	1
Baldwin Bikes	Rodolfo Buck	1
Baldwin Bikes	Romaine Haley	1
Baldwin Bikes	Kimberli Cline	1
Baldwin Bikes	Casey Gill	1

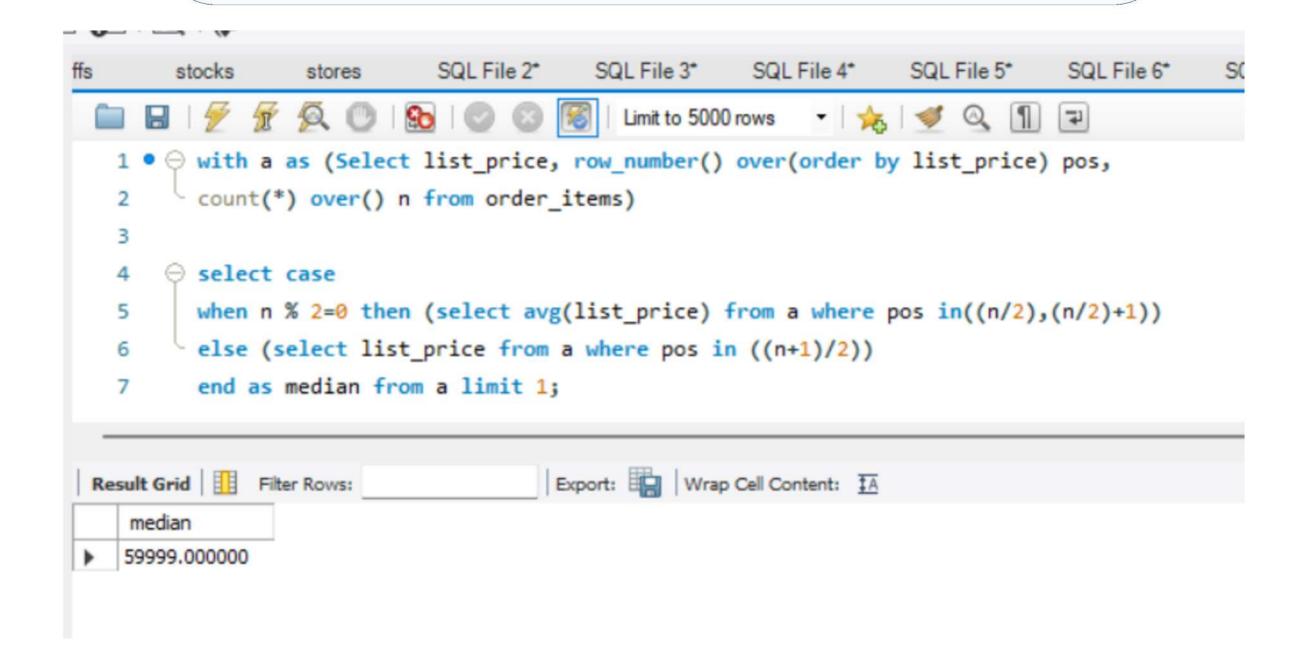
Find the names of staff members who have not made any sales.



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



Find the median value of the price list.



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

```
SELECT

2 products.product_name

3 FROM

4 products

5 WHERE

6 NOT EXISTS( SELECT

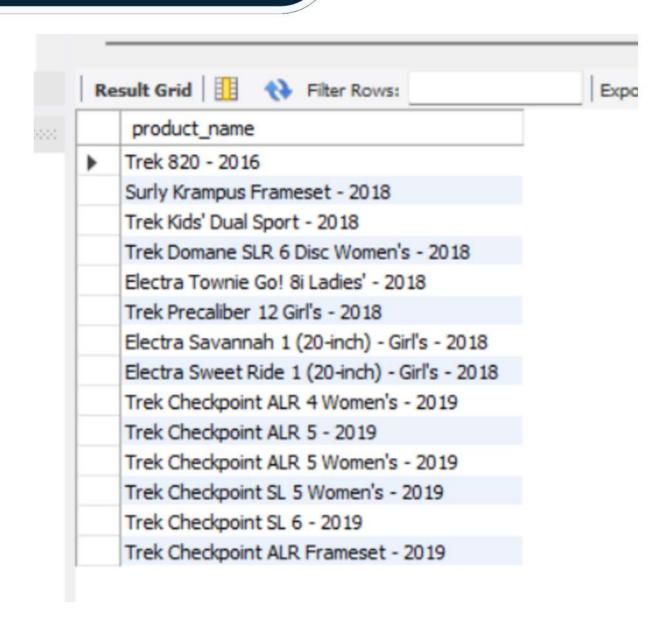
7 *

8 FROM

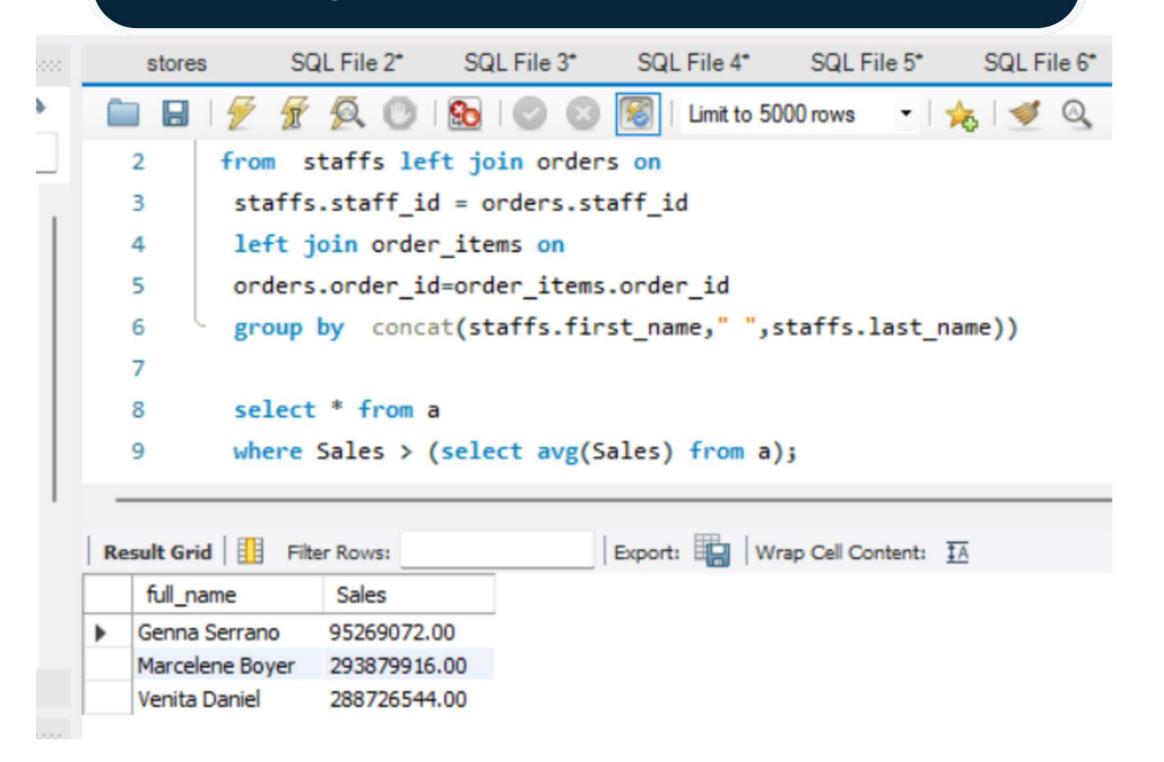
9 order_items

10 WHERE

11 order_items.product_id = products.product_id)
```



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



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

```
Limit to 5000 rows ▼ | 🏂 | 🥩 🔍 🗻
       SELECT
           customers.customer_id, COUNT(DISTINCT products.category_id)
       FROM
           customers
               JOIN
           orders ON customers.customer_id = orders.customer_id
               JOIN
           order_items ON order_items.order_id = orders.order_id
               JOIN
 9
           products ON products.product_id = order_items.product_id
10
11
       GROUP BY customers.customer_id
       HAVING COUNT(DISTINCT products.category_id) = (SELECT
12
               COUNT(category_id)
13
14
           FROM
               categories);
15
16
```

