



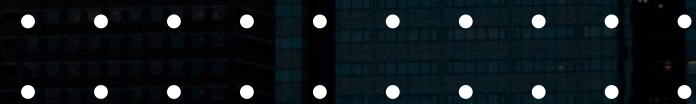
JENSON^{USA}

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About The PROJECT



Jenkins is a renowned company specializing in the manufacturing of bicycles and motorbikes. Known for quality craftsmanship and innovative designs, Jenkins offers a wide range of two-wheelers that cater to both daily commuters and enthusiasts. The company emphasizes performance, durability, and customer satisfaction across all its models.



1.FIND THE TOTAL NUMBER OF PRODUCTS SOLD BY EACH STORE ALONG WITH THE STORE NAME.

1 #Find the total number of products sold by each store along with the store name.
2
3 • **SELECT**
4 stores.store_name, SUM(oi.quantity) sold_products
5 **FROM**
6 order_items oi
7 **JOIN**
8 orders **USING** (order_id)
9 **JOIN**
10 stores **USING** (store_id)
11 **GROUP BY** stores.store_name;
12

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	store_name	sold_products
▶	Santa Cruz Bikes	1516
	Baldwin Bikes	4779
	Rowlett Bikes	783

Result Grid

Form Editor


```
14 #Calculate the cumulative sum of quantities sold for each product over time.
15 • select products.product_name,orders.order_date,
16    order_items.quantity,
17    sum(order_items.quantity) over(partition by products.product_name order by orders.order_date) cumulative_quantity
18 from products join order_items
19 on products.product_id= order_items.product_id
20 join orders
21 on orders.order_id = order_items.order_id;
```

Result Grid				
Filter Rows: <input type="text"/> Export: <input type="button" value="Export"/> Wrap Cell Content: <input type="checkbox"/>				
	product_name	order_date	quantity	cumulative_quantity
	Electra Amsterdam Fashion 3i Ladies' - 2017/2018	2018-01-01	1	1
	Electra Amsterdam Fashion 3i Ladies' - 2017/2018	2018-01-21	2	3
	Electra Amsterdam Fashion 3i Ladies' - 2017/2018	2018-04-30	2	5
	Electra Amsterdam Fashion 7i Ladies' - 2017	2017-01-29	2	2
	Electra Amsterdam Fashion 7i Ladies' - 2017	2017-02-28	1	3
	Electra Amsterdam Fashion 7i Ladies' - 2017	2017-03-03	1	4
	Electra Amsterdam Fashion 7i Ladies' - 2017	2017-03-09	2	6
	Electra Amsterdam Fashion 7i Ladies' - 2017	2017-04-06	1	7
	Electra Amsterdam Fashion 7i Ladies' - 2017	2017-04-15	2	9
	Electra Amsterdam Fashion 7i Ladies' - 2017	2017-04-16	1	10

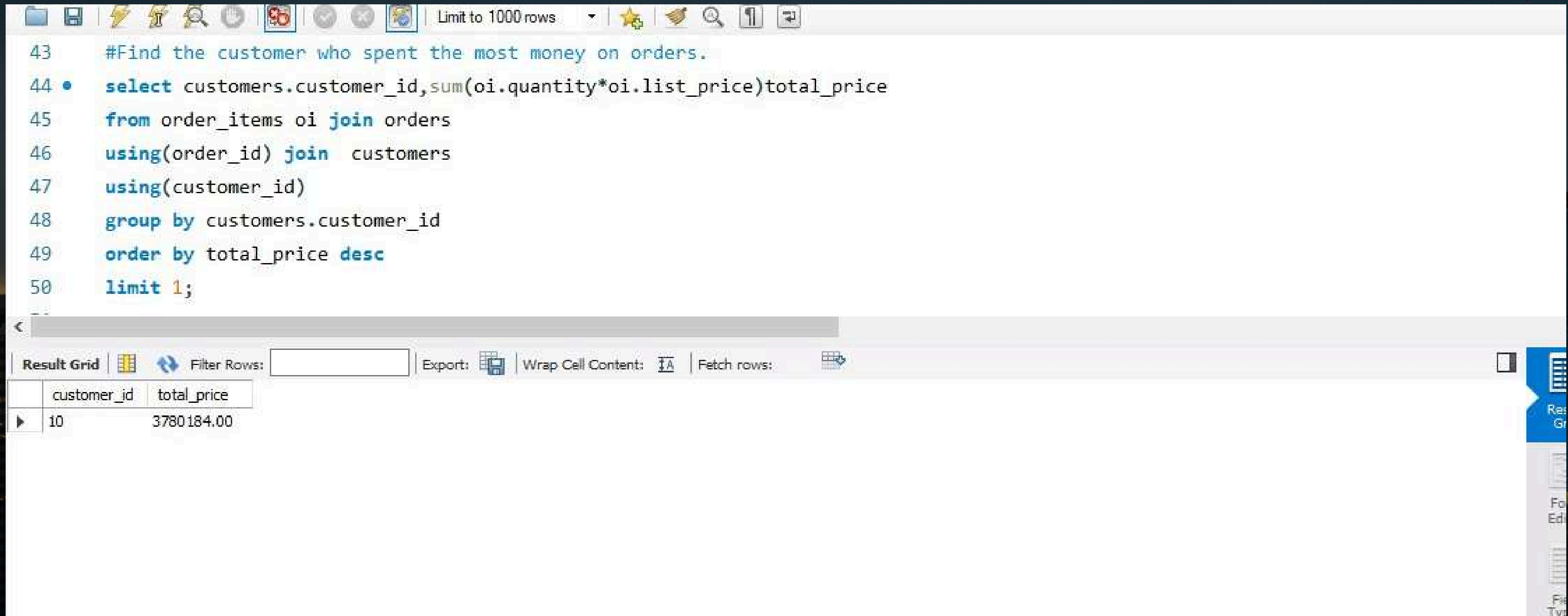

```

28 #Find the product with the highest total sales (quantity * price) for each category.
29 • ☹ with a as(select categories.category_name,products.product_name,
30    sum(order_items.quantity*order_items.list_price)Sales
31    from order_items join products
32    using(product_id) join categories
33    using(category_id)
34    group by categories.category_name,products.product_name)
35    select category_name,product_name ,sales from
36    (select *,rank() over(partition by category_name order by sales desc)rnk from a)b
37    where rnk = 1

```

Result Grid			
Filter Rows:		Export:	Wrap Cell Content:
category_name	product_name	sales	
Children Bicycles	Electra Girl's Hawaii 1 (20-inch) - 2015/2016	4619846.00	
Comfort Bicycles	Electra Townie Original 7D EQ - 2016	8039866.00	
Cruisers Bicycles	Electra Townie Original 7D EQ - 2016	9359844.00	
Cyclocross Bicycles	Surly Straggler 650b - 2016	25382949.00	
Electric Bikes	Trek Conduit+ - 2016	43499855.00	
Mountain Bikes	Trek Slash 8 275 - 2016	61599846.00	
Road Bikes	Trek Domane SLR 6 Disc - 2017	23649957.00	

4.FIND THE CUSTOMER WHO SPENT THE MOST MONEY ON ORDERS.

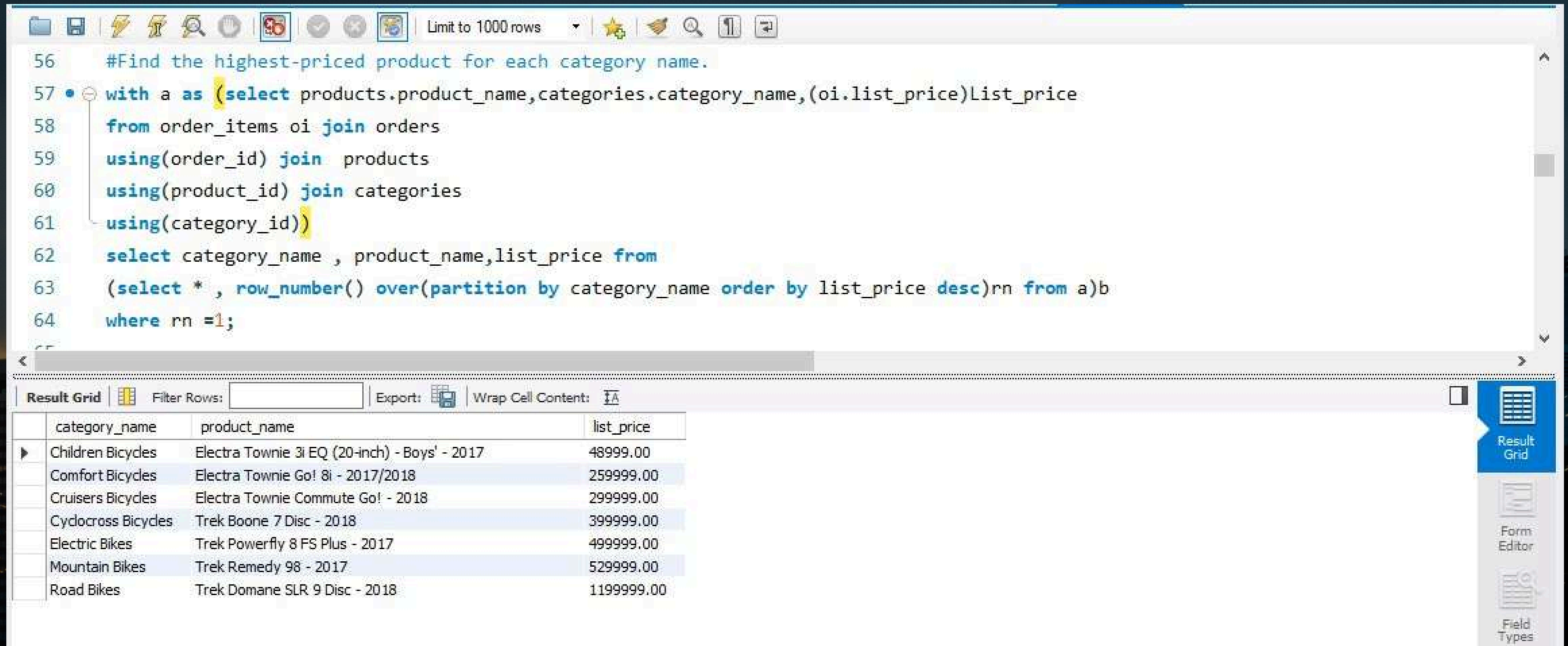


```
43 #Find the customer who spent the most money on orders.
44 • select customers.customer_id,sum(oi.quantity*oi.list_price)total_price
45 from order_items oi join orders
46 using(order_id) join customers
47 using(customer_id)
48 group by customers.customer_id
49 order by total_price desc
50 limit 1;
```

Result Grid

	customer_id	total_price
▶	10	3780184.00

5.FIND THE HIGHEST-PRICED PRODUCT FOR EACH CATEGORY NAME.



```
56 #Find the highest-priced product for each category name.
57 with a as (select products.product_name, categories.category_name, (oi.list_price) list_price
58 from order_items oi join orders
59 using(order_id) join products
60 using(product_id) join categories
61 using(category_id))
62 select category_name , product_name, list_price from
63 (select * , row_number() over(partition by category_name order by list_price desc) rn from a) b
64 where rn =1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	category_name	product_name	list_price
▶	Children Bicycles	Electra Townie 3i EQ (20-inch) - Boys' - 2017	48999.00
	Comfort Bicycles	Electra Townie Go! 8i - 2017/2018	259999.00
	Cruisers Bicycles	Electra Townie Commute Go! - 2018	299999.00
	Cyclocross Bicycles	Trek Boone 7 Disc - 2018	399999.00
	Electric Bikes	Trek Powerfly 8 FS Plus - 2017	499999.00
	Mountain Bikes	Trek Remedy 98 - 2017	529999.00
	Road Bikes	Trek Domane SLR 9 Disc - 2018	1199999.00

Result Grid | Form Editor | Field Types

6.FIND THE TOTAL NUMBER OF ORDERS PLACED BY EACH CUSTOMER PER STORE.

```
75 #Find the total number of orders placed by each customer per store.
76 • SELECT
77     customer_id, store_id, COUNT(order_id) total_order
78 FROM
79     orders
80 GROUP BY customer_id , store_id
81 ORDER BY customer_id , store_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

	customer_id	store_id	total_order
▶	1	2	3
	2	1	3
	3	1	3
	4	2	3
	5	1	3
	6	2	3
	7	2	3
	8	2	3
	9	2	3

Result Grid
Form Editor
Field Types

7.FIND THE NAMES OF STAFF MEMBERS WHO HAVE NOT MADE ANY SALES.

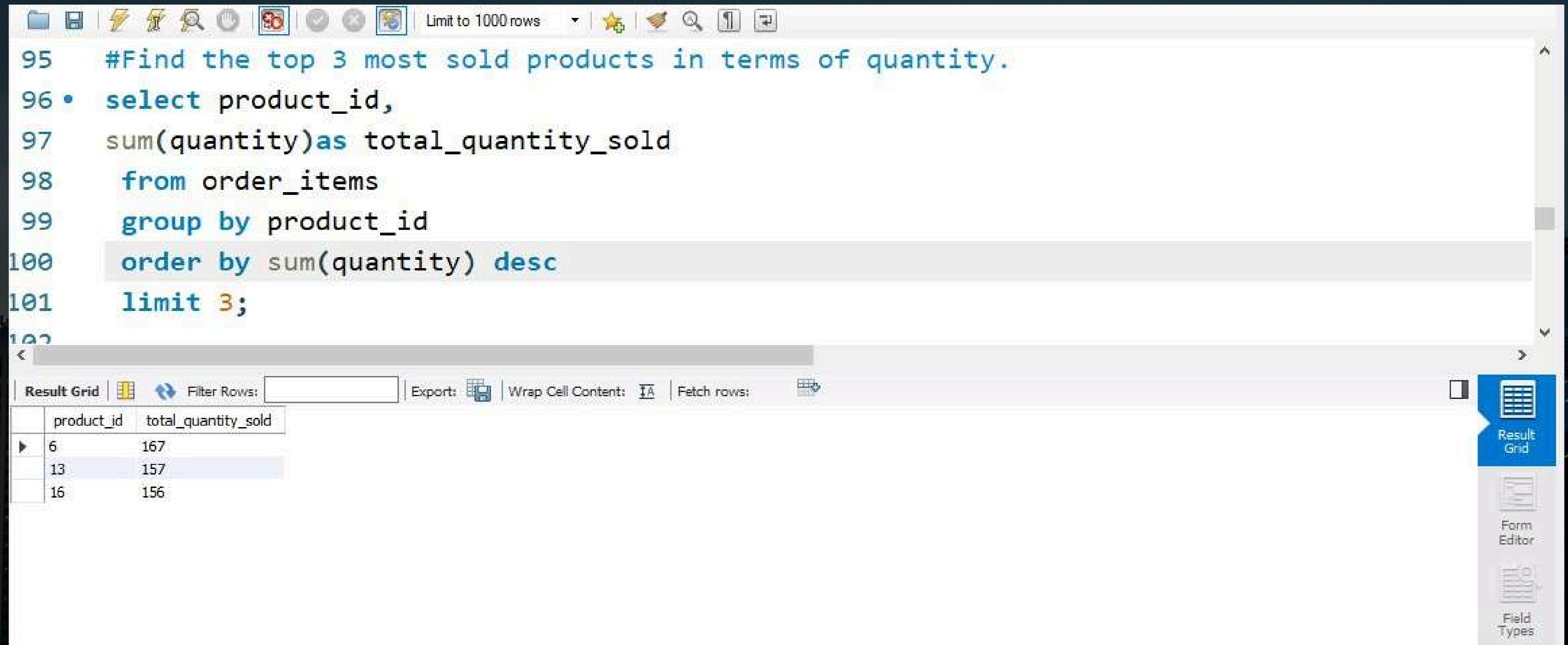
```
86 #Find the names of staff members who have not made any sales.
87 • with a as(select first_name,last_name , concat(first_name," ",last_name)Staff_Name,
88   orders.order_id from staffs left join orders
89   using(staff_id))
90   select staff_Name,order_id
91   from a
92   where order_id is null;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	Staff_Name	order_id
▶	Fabiola Jackson	NULL
	Virgie Wiggins	NULL
	Jannette David	NULL
	Bernardine Houston	NULL

Result Grid
Form Editor
Field Types

8.FIND THE TOP 3 MOST SOLD PRODUCTS IN TERMS OF QUANTITY.



The screenshot shows a SQL query editor with a toolbar at the top. The query is as follows:

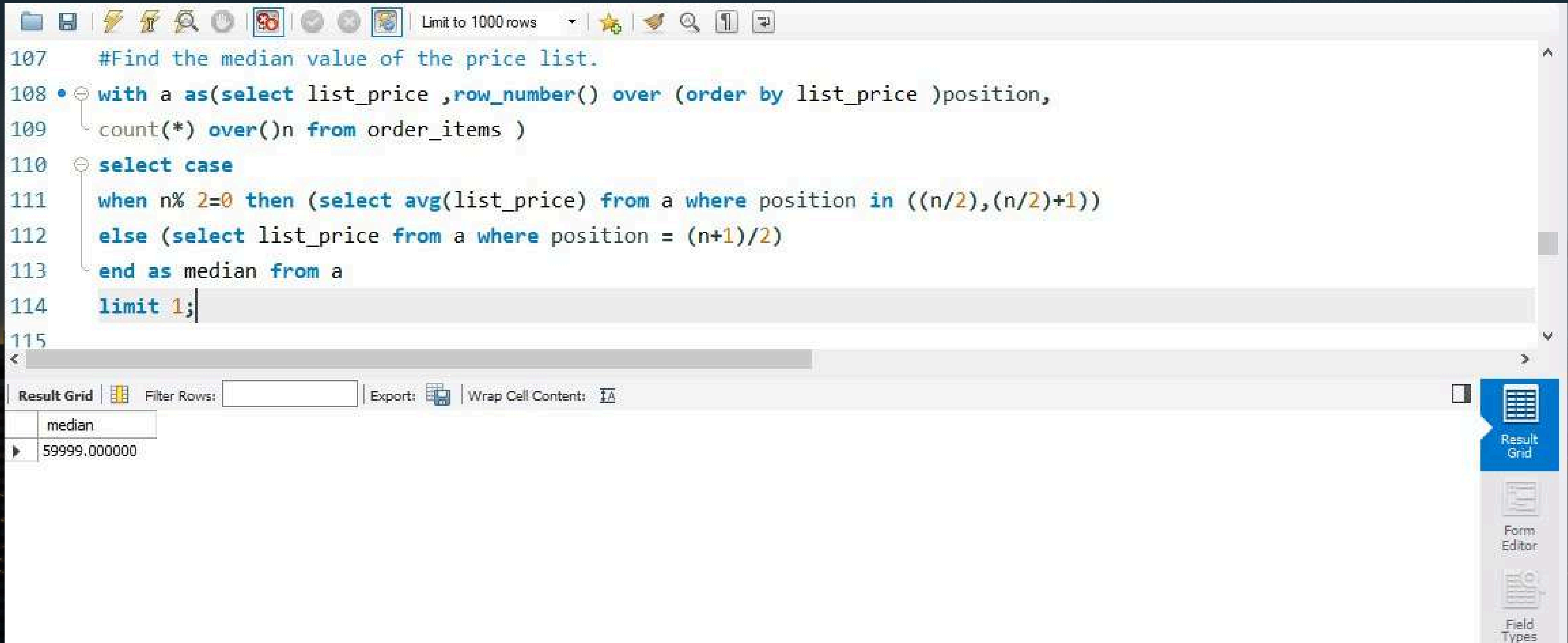
```
95 #Find the top 3 most sold products in terms of quantity.  
96 • select product_id,  
97    sum(quantity)as total_quantity_sold  
98    from order_items  
99    group by product_id  
100   order by sum(quantity) desc  
101   limit 3;  
102
```

Below the query editor, there is a "Result Grid" section with a table showing the results of the query. The table has two columns: "product_id" and "total_quantity_sold". The results are as follows:

product_id	total_quantity_sold
6	167
13	157
16	156

On the right side of the interface, there is a sidebar with buttons for "Result Grid", "Form Editor", and "Field Types".

9.FIND THE MEDIAN VALUE OF THE PRICE LIST.



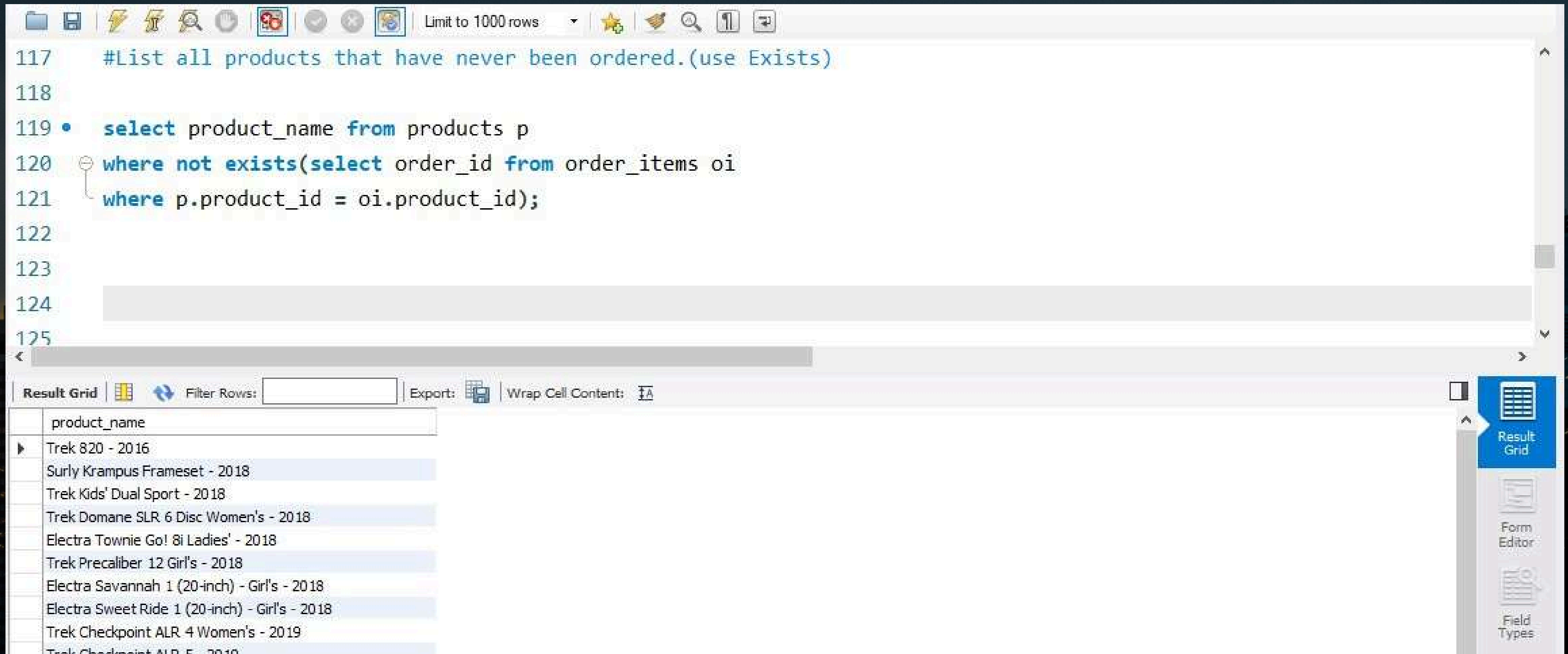
```
107 #Find the median value of the price list.
108 • with a as(select list_price ,row_number() over (order by list_price )position,
109 count(*) over()n from order_items )
110 select case
111 when n% 2=0 then (select avg(list_price) from a where position in ((n/2),(n/2)+1))
112 else (select list_price from a where position = (n+1)/2)
113 end as median from a
114 limit 1;
115
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

median
59999.000000

Result Grid
Form Editor
Field Types

10.LIST ALL PRODUCTS THAT HAVE NEVER BEEN ORDERED.(USE EXISTS)



The screenshot shows a SQL IDE interface with a query editor and a result grid. The query editor contains the following SQL code:

```
117 #List all products that have never been ordered.(use Exists)
118
119 • select product_name from products p
120   where not exists(select order_id from order_items oi
121     where p.product_id = oi.product_id);
122
123
124
125
```

The result grid displays the following data:

product_name
Trek 820 - 2016
Surly Krampus Frameset - 2018
Trek Kids' Dual Sport - 2018
Trek Domane SLR 6 Disc Women's - 2018
Electra Townie Go! 8i Ladies' - 2018
Trek Precaliber 12 Girl's - 2018
Electra Savannah 1 (20-inch) - Girl's - 2018
Electra Sweet Ride 1 (20-inch) - Girl's - 2018
Trek Checkpoint ALR 4 Women's - 2019
Trek Checkpoint ALR 5 - 2019

11.LIST THE NAMES OF STAFF MEMBERS WHO HAVE MADE MORE SALES THAN THE AVERAGE NUMBER OF SALES BY ALL STAFF MEMBERS.

```
126 #List the names of staff members who have made more sales than the average number of sales by all staff members.
127
128 • with a as(select concat(staffs.first_name, ' ',staffs.last_name)staff_name,coalesce( sum(oi.quantity*oi.list_price),0 )sales
129   from staffs left join  orders
130   using(staff_id) left join order_items oi
131   using(order_id)
132   group by concat(staffs.first_name, ' ',staffs.last_name))
133   select staff_name,sales  from a where
134   sales>(select avg(sales) from a);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	staff_name	sales
▶	Genna Serrano	95272226.00
	Marcelene Boyer	293888873.00
	Venita Daniel	288735348.00

Result Grid
Form Editor
Field Types


```
137 #Identify the customers who have ordered all types of products (i.e., from every category).  
138  
139 • select customers.customer_id, count(distinct products.category_id)  
140     from customers join orders using(customer_id)  
141     join order_items oi using(order_id)  
142     join products using(product_id)  
143     group by customers.customer_id  
144     having count(distinct products.category_id) = (select count(category_id) from categories)  
145
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

customer_id	count(distinct products.category_id)
9	7

Result Grid
Form Editor

Key Insights

In-depth research helped identify customer preferences, enabling Jenkins to design bikes and motorbikes that cater to both urban commuters and enthusiasts.

Incorporating advanced features and stylish designs gave Jenkins a competitive edge in a saturated market.

A well-structured production process and strong supplier network ensured timely manufacturing and delivery, reducing costs and delays.

Strategic promotional campaigns increased brand awareness and attracted a wider audience across different regions.

Reliable support and service centers boosted customer satisfaction, helping build a loyal customer base and positive brand reputation.

Jenkins' focus on eco-friendly bicycles aligns with the growing demand for sustainable mobility solutions.

SUMMARY

The Jenkins Bicycle and Motorbike Project was designed to meet the growing demand for reliable, innovative, and sustainable two-wheelers. Through comprehensive market research, Jenkins identified key customer needs and preferences, leading to the development of stylish, durable bicycles and motorbikes. The company streamlined its manufacturing and supply chain processes to ensure efficiency and timely product delivery. Strategic marketing campaigns, combined with a strong after-sales support network, helped enhance brand visibility and customer satisfaction. With a focus on quality, performance, and sustainability, Jenkins successfully established itself as a trusted name in the industry and is well-positioned for continued growth and market expansion.

Contact Us



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Thank You

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