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# Jenson Cycles





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



```
with a as (select s.store_name,s.store_id,  
sum(ord.quantity) as total_products from stores as s join  
orders as o  
on o.store_id=s.store_id join order_items as ord on  
ord.order_id=o.order_id group by 1,2 )  
select store_name,sum(total_products) over( partition  
by store_id ) from a;
```



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

```
with a as (select p.product_name, ord.quantity , o.order_date  
from products as p join order_items as ord on p.product_id =  
ord.product_id join orders as o on o.order_id=ord.order_id)  
select *,sum(quantity) over( partition by product_name order by  
order_date ) cumulative_total from a;
```



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

with **a** as (select c.category\_name,p.product\_name,  
sum(ord.quantity\*ord.list\_price) as total\_sales from products as **p** join  
order\_items **ord**  
on p.product\_id=ord.product\_id  
join categories as **c** on c.category\_id= p.category\_id  
group by p.product\_name, c.category\_name),  
  
**b** as (select \*, dense\_rank() over (partition by category\_name order by  
total\_sales desc ) Top\_products from **a**)  
select \* from **b** where Top\_products = 1 ;



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 In Stock (678)

## BRAND

 3T (1) 7IDP (1) Bell (5) Black Diamond (2) Brooks (3) Camelbak (9) Campagnolo (10) Cane Creek (1) Cannondale (10) C

## COLOR

Apatite Ascent Asphalt/E

Navy Purple

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

```
select c.customer_id,c.first_name,c.last_name,  
sum(ord.quantity*ord.list_price) as total from customers as c join  
orders as o  
on c.customer_id=o.customer_id join order_items as ord on  
ord.order_id=o.order_id group by 1,2,3 order by total desc limit 1;
```



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## BRAND

 3T (1) 7IDP (1) Bell (5) Black Diamond (2) Brooks (3) Camelbak (9) Campagnolo (10) Cane Creek (1) Cannondale (10) ...

## COLOR

Apatite Ascent Asphalt/E

Navy Purple

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

with a as (select c.category\_name ,p.product\_name, p.category\_id,  
p.list\_price,  
dense\_rank() over(partition by category\_id order by list\_price  
desc)topproduct from products as p join categories as c on  
p.category\_id=c.category\_id )  
select \* from a where topproduct =1;



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## BRAND

- 3T (1)
- 7IDP (1)
- Bell (5)
- Black Diamond (2)
- Brooks (3)
- Camelbak (9)
- Campagnolo (10)
- Cane Creek (1)
- Cannondale (10)

## COLOR

- Apatite
- Ascent
- Asphalt/E
- Navy
- Purple

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

```
select concat(c.first_name, " ", c.last_name) FULLNAME,  
       count(o.order_id) ,s.store_name from customers as c  
join orders as o on c.customer_id=o.customer_id left join stores as s  
on s.store_id =o.store_id group by 1,3;
```

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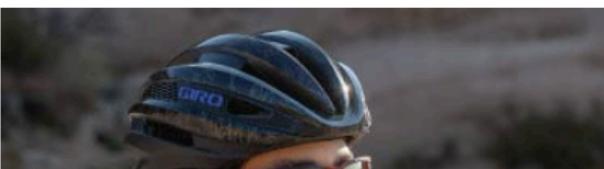
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7. Find the names of staff members who have not made any sales.

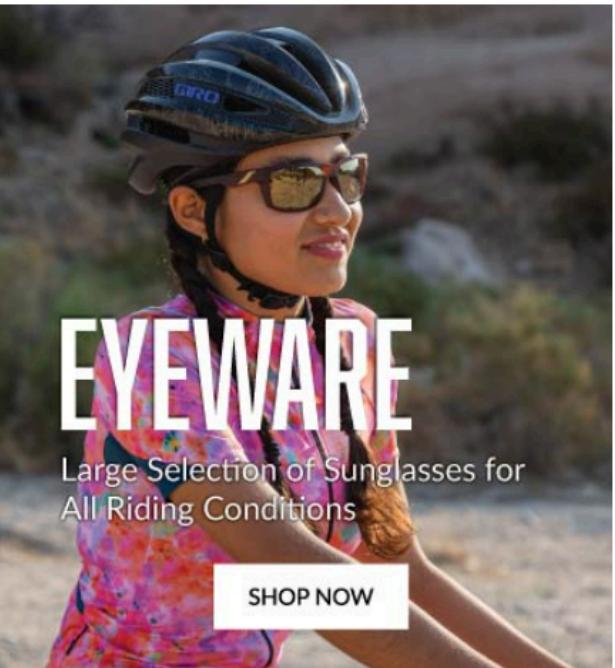


```
select concat(s.first_name,"  
",last_name) staff_name,  
s.staff_id,o.order_id from staffs  
as s left join orders as o on  
s.staff_id=o.staff_id where  
o.order_id is null;
```



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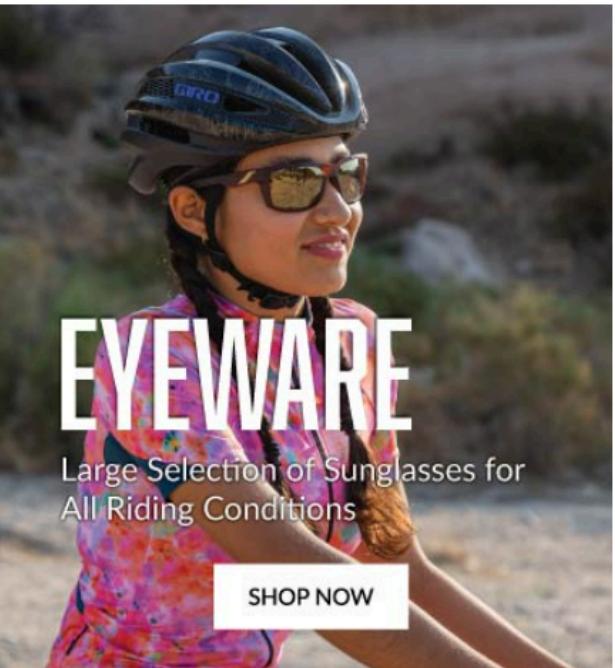


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## 8. Find the top 3 most sold products in terms of quantity.

```
with a as( select p.product_name , sum(ord.quantity) total_quantity  
from products as p join order_items as ord  
on p.product_id =ord.product_id group by 1 ),  
b as (select * , dense_rank() over( order by total_quantity desc) rnk from  
a )  
select * from b where rnk <=3 ;
```

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

with **a** as (select **list\_price** ,**row\_number()** over(order by **list\_price**) as **rn** ,  
count(\*) over() as **n** from **products**)

select case

when mod(**n**,2) = 0 then (select **avg(list\_price)** from **a** where **rn** in ((**n**/2),  
(**n**/2)+1))

else (select **list\_price** from **a** where **rn**= ((**n**+1)/2))  
end as **median** from **a** limit 1;

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ALL BIKE BRANDS

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



MAXXIS®



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Brand Index: 0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z



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## COLOR

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Asphalt/E

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

with **a** as (select **s.staff\_id ,concat(s.first\_name," ",last\_name)**,  
**coalesce(sum( oi.quantity\*oi.list\_price),0) sales** from **staffs** as **s**  
left join **orders** as **o** on  
**s.staff\_id =o.staff\_id** left join **order\_items** as **oi** on **oi.order\_id**  
**=o.order\_id** group by **1,2** )  
select \* from **a** where **sales >(select avg(sales) from a);**

\*Free

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

```
SELECT c.customer_id, c.first_name,  
       COUNT(DISTINCT p.category_id) AS categories_visited,  
       COUNT(oi.product_id) AS total_orders FROM customers as c JOIN orders o  
           ON c.customer_id = o.customer_id JOIN  
           order_items as oi ON oi.order_id = o.order_id JOIN  
           products as p ON p.product_id = oi.product_id GROUP BY c.customer_id, c.first_name  
HAVING COUNT(DISTINCT p.category_id) = (SELECT COUNT(*) FROM categories);
```

414 ITEMS

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