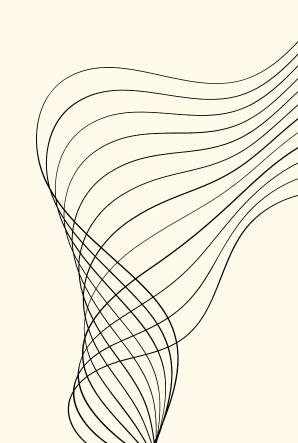






PROJECT PRESENTATION



ABOUT JENSON USA

Jenson USA is a popular retailer specializing in bicycles, bike components, and cycling accessories. They are known for offering a wide range of products for cycling enthusiasts, including mountain bikes, road bikes, electric bikes, apparel, and gear. Jenson USA often provides expert advice, customer reviews, and competitive pricing, making them a trusted name in the cycling community.

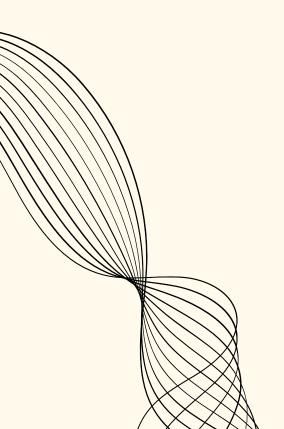


- Find the total number of products sold by each store along with the store name.
- Calculate the cumulative sum of quantities sold for each product over time.
- Find the product with the highest total sales (quantity * price) for each category.
- Find the customer who spent the most money on orders.
- Find the highest-priced product for each category name.
- Find the total number of orders placed by each customer per store.
- 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)
- List the names of staff members who have made more sales than the average number of sales by all staff members.

SOLUTIONS

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

```
select stores.store_name, sum(order_items.quantity) as total_quantity
from orders
join order_items
on order_items.order_id=orders.order_id
join stores
on stores.store_id=orders.store_id
group by stores.store_name;
```



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

```
select product_id,order_date, quantity,sum(quantity)
over (partition by product_id order by order_date) as cumulative
from
(select order_items.product_id,orders.order_date,
 sum(order_items.quantity) as quantity
from orders
join order_items
on orders.order_id=order_items.order_id
group by order_items.product_id,orders.order_date) a;
```

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

```
with a as(SELECT
   categories.category_id,
   categories.category_name,
   products.product_id,
   products.product_name,
   SUM(order_items.quantity *( order_items.list_price - order_items.discount)) AS sales
FROM
   products
        JOIN
   order_items ON products.product_id = order_items.product_id
        JOIN
   categories ON products.category_id = categories.category_id
GROUP BY products.product_id , products.product_name , categories.category_id , categories.category_name)
```

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

```
with a as(select customers.customer_id,
  concat(customers.first_name, customers.last_name) as full_name,
  sum(order_items.quantity*(order_items.list_price-order_items.discount)) sales
  from customers
  join orders
  on customers.customer_id=orders.customer_id
  join order_items
  on order_items.order_id=orders.order_id
  group by customers.customer_id, full_name)
  select *, rank() over(order by sales desc ) from a;
```

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

```
select * from
(select categories.category_id,
 categories.category_name,
 products.product_name,
 products.list_price,
 rank () over(partition by categories.category_id order by products.list_price desc) as rnk
 from products
 join categories
 on products.category_id=categories.category_id) a
 where rnk=1;
```

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

```
QUERY:

store_id, customer_id, COUNT(order_id)

FROM

orders

GROUP BY store_id , customer_id;
```

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

```
SELECT
    staffs.staff_id,
    CONCAT(staffs.first_name, ' ', staffs.last_name) AS full_name
FROM
    staffs
WHERE
    NOT EXISTS ( SELECT
            staff_id
        FROM
            orders
        WHERE
            orders.staff_id = staffs.staff_id)
```

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

```
select product name from
(SELECT
    products.product_id,
    products.product_name,
    SUM(order_items.quantity) AS total_quantity,
    RANK() OVER (ORDER BY SUM(order_items.quantity) DESC) AS rnk
FROM
    products
JOIN
   order_items
ON
    products.product_id = order_items.product_id
GROUP BY
    products.product_id, products.product_name) as a
    where rnk <=3;
```

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

```
SELECT
    products.product_id, products.product_name
FROM
    products
WHERE
    NOT EXISTS ( SELECT
            product id
        FROM
            order_items
        WHERE
            products.product_id = order_items.product_id)
```

THANK

