1. How many unique product lines does the data have?

Select count (distinct product\_line) from sales;

1. What is the most common payment method?

Select count(invoice\_id), Payment\_methodfrom sales group by Payment\_method ORDER BY DESC LIMIT 1;

1. What is the most selling product line?

SELECT product\_line, count(product\_line) from sales

Group by product\_line;

4. What is the total revenue by month?

SELECT extract(month, date), SUM(GROSS\_INCOME)

From sales

Group by extract(month, date);

What month had the largest COGS?

Select extract(month, date), sum(cogs) as total

From sales

Group by  extract(month, date)

Order by total desc

Limit 1;

What product line had the largest revenue?

Select product\_line, sum(total) as total

From sales

Group by product\_line

Order by total desc limit 1;

What is the city with the largest revenue?

Select city, sum(total) as total

From sales

Group by city

Order by total desc limit 1;

What product line had the largest VAT?

Select product\_line, sum(total) as total

From sales

Group by product\_line

Order by total desc limit 1;

Fetch each product line and add a column to those product line showing "Good", "Bad". Good if its greater than average sales

With cte as (select product\_line, avg(sales) as avg from sales group by product\_line)

Select distinct product\_line,

case when total > (select avg from cte) then ‘good’ else ‘bad’ end as comment

From sales

Group by product\_line

Which branch sold more products than average product sold?

With cte as (Select branch, sum(total) as total from sales group by branch )

Select \* from cte where total > (select avg(total) from sales)

What is the most common product line by gender?

Select count(gender),gender, Product\_line from sales group by gender,Product\_line order by count(gender) desc limit 1;

What is the average rating of each product line?

Select Product\_line, average (rating) from sales group by Product\_line;

**Sales**

1. Number of sales made in each time of the day per weekday

Select count(\*) as ttl\_sales, time from sales group by time order by ttl\_sales desc;

1. Which of the customer types brings the most revenue?

Select customer\_type, sum(total) from sales group by customer\_type;

1. Which city has the largest tax percent/ VAT (Value Added Tax)?

Select city, sum(tax) from sales group by city order by sum(tax) desc;

1. Which customer type pays the most in VAT?

Customer

1. How many unique customer types does the data have?

Select distinct(customer\_type) from sales;

1. How many unique payment methods does the data have?
2. What is the most common customer type?
3. Which customer type buys the most?
4. What is the gender of most of the customers?
5. What is the gender distribution per branch?
6. Which time of the day do customers give most ratings?
7. Which time of the day do customers give most ratings per branch?
8. Which day fo the week has the best avg ratings?
9. Which day of the week has the best average ratings per branch?