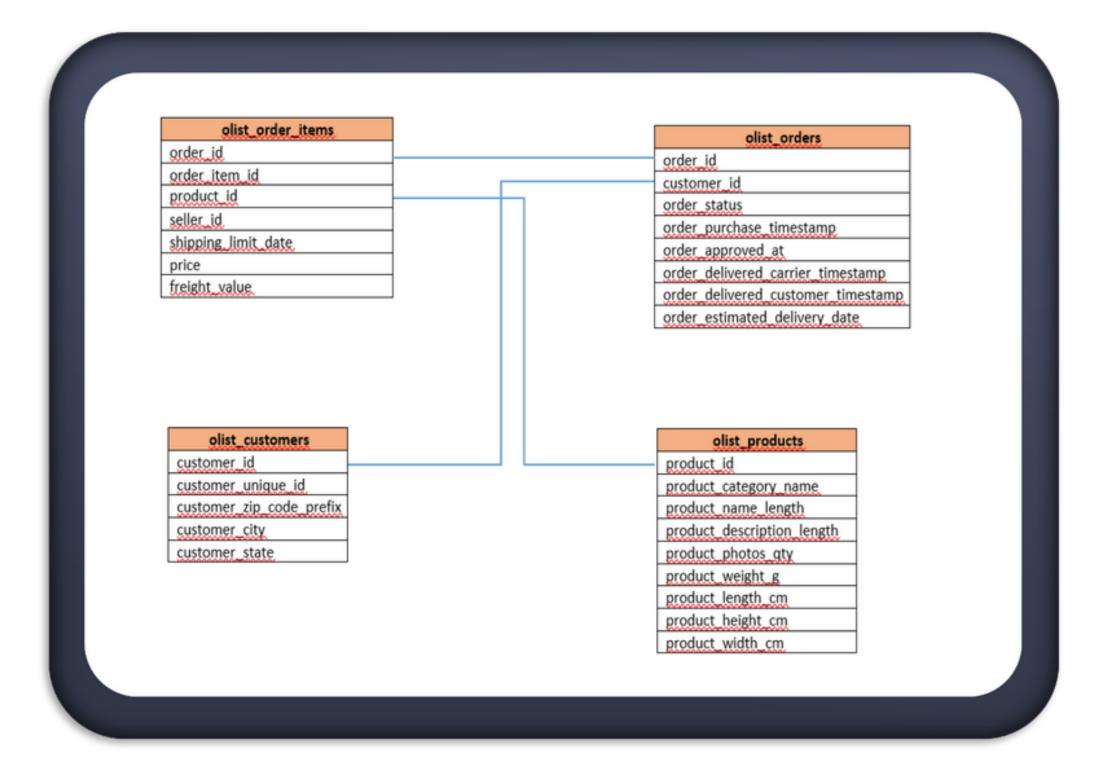
PROJECT 1

INTRODUCTION

From the store data that has been obtained, an analysis will be carried out to see overall performance by year and also by product sub-category, pay attention to effectiveness and sales by year and also by product sub-category, see customer behavior and growth from the customer side

DATABASE RELATIONSHIP TABLE



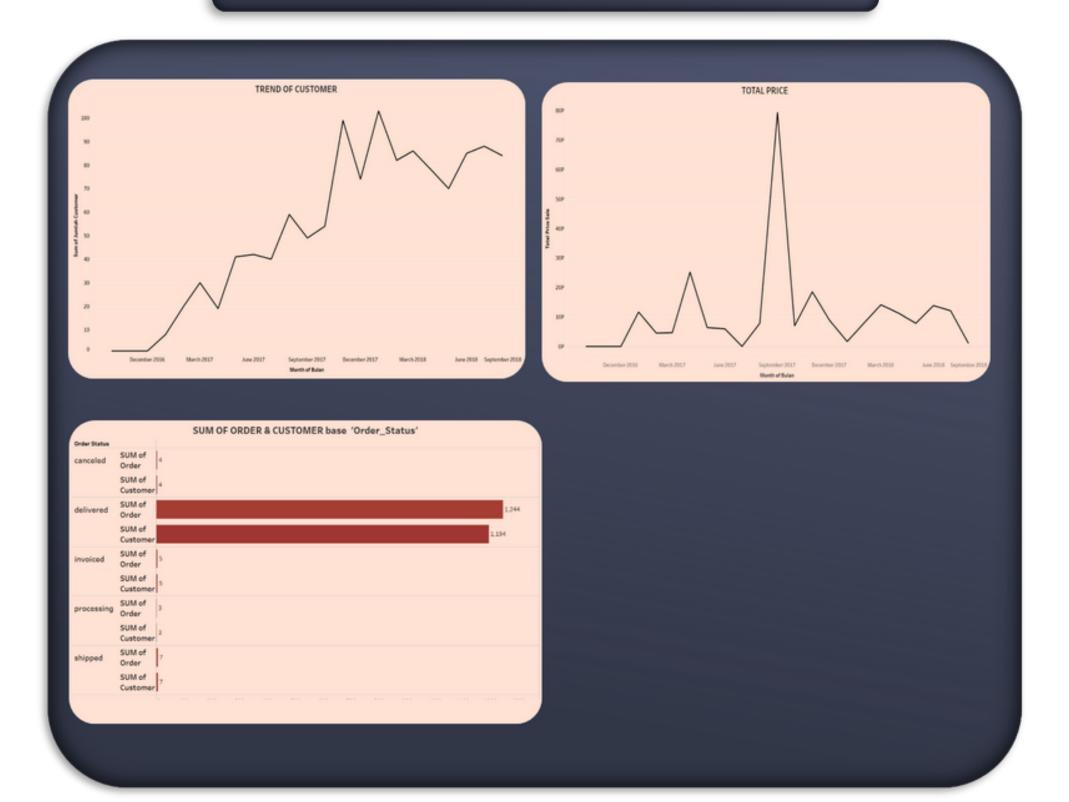
TOOLS







Query to understand jumlah_order,total_price_sale and jumlah_customer for everymonth, base on order_status



- The customer trend tends to increase from December 2016 to September 2018
- Total_price tends to be stable from december 2016 to aug 2017, and has increased drastically in sep 2017 after that in aug 2017 it fell back to the average price like the previous month
- Based on order_status, sum_of_orders and sum_of_customer are directly proportional

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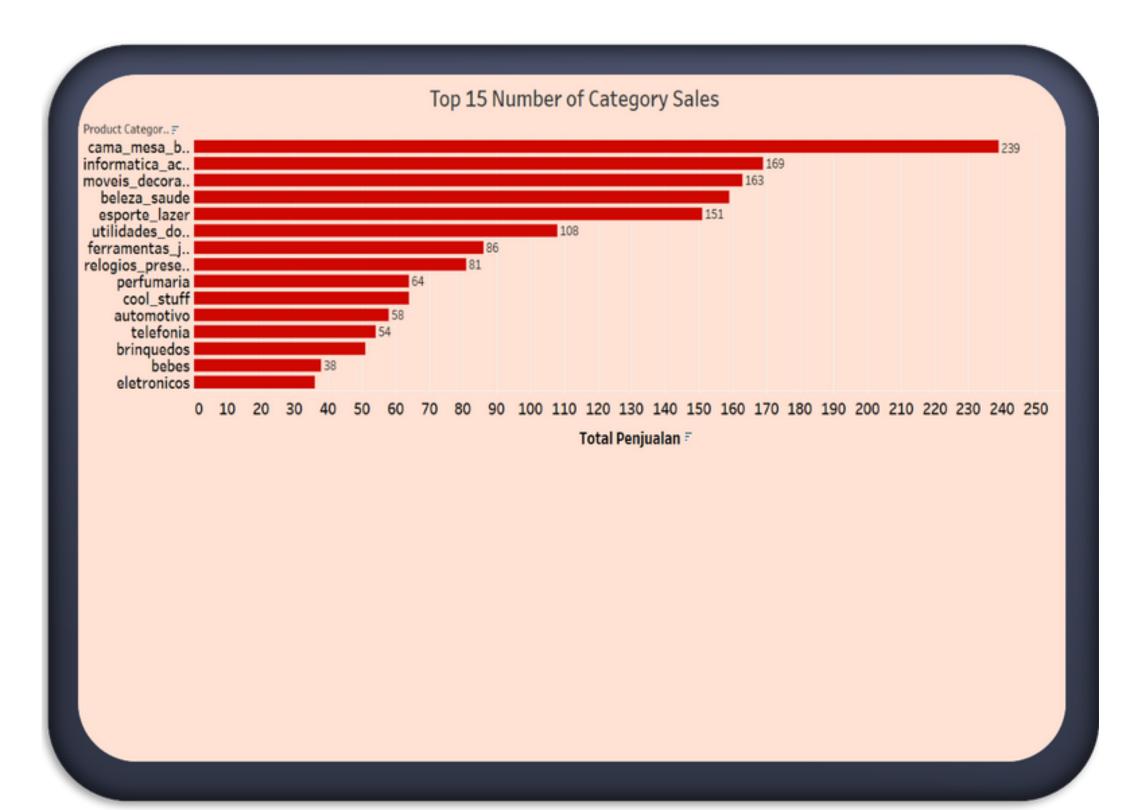
Query to understand AOV (Avarage_Order_Value),frequency, and total Unique_Customer where orser_status is "delivered"



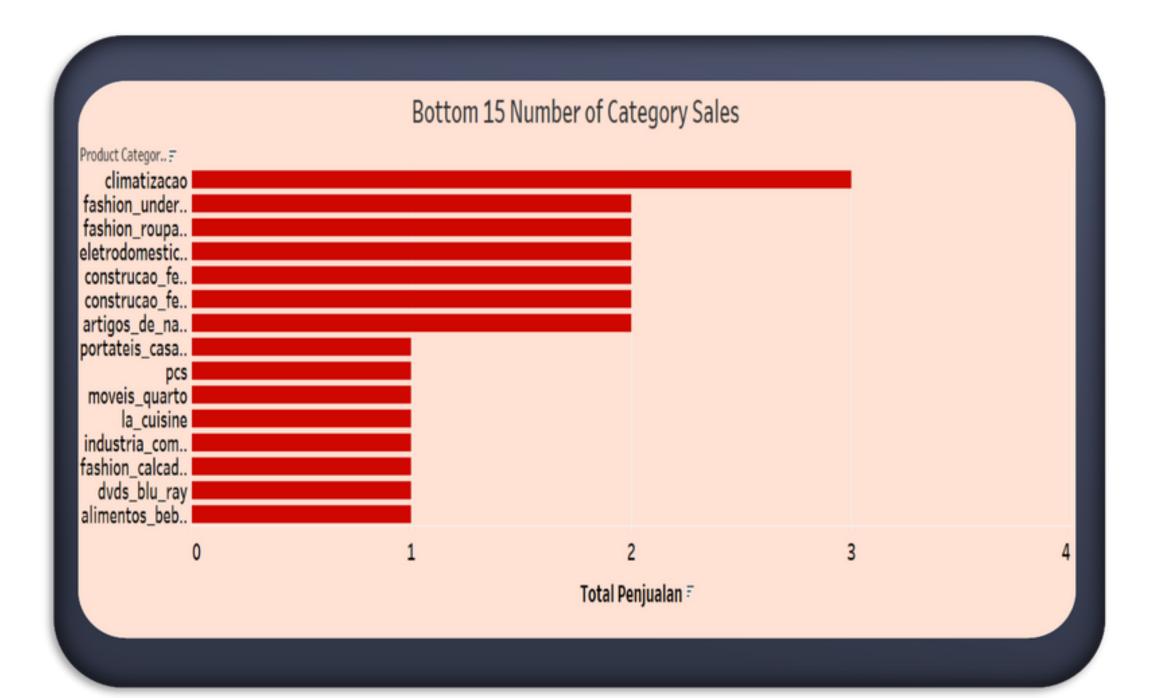
 Sales frequency is directly proportional to the number of unique customers

Query to understand biggest seller by category

```
with table3 as (
    select product_category_name, sum(order_item_id) as total_penjualan
    from olist_products inner join olist_order_items using (product_id)
    group by 1
    order by 2 desc
)
select *
from table3
```



 Product cama_mesa_banho have the most from Dec 2016 to Sep 2018



 Some product had the least sales from Dec 2016 to Sep 2018

CONCLUSION & RECOMENDATION

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- 1. Trend Analysis: keep monitoring customer trends to identify reasons behind increases till September 2018. This can help in planning a more effective marketing strategy. an example of a solution that can be used is a loyalty program, which provides incentives for customers to keep shopping at your store.
- 2. Availability of stock: Relate the increase in the frequency of sales to the need to ensure adequate inventory. Make sure you can cope with the increasing demands.
- 3. Price Management: Review the September 2017 spike in prices and their decline. Consider optimizing your pricing strategy to stay attractive to customers without compromising sales stability.

CONCLUSION & RECOMENDATION

- 4. Increased Orders: Based on the direct relationship between the number of customers and orders, focus on strategies that encourage customers to place more orders.improve customer retention. because satisfied customers are more likely to shop again. Provide good service, respond quickly to questions or concerns, and consider developing a loyalty program.
- 5. Product Portfolio: Evaluation of sales of top 5 and bottom 5 products. First identify the reasons why the five types of products have the most sales. You might be able to stick to the top 5 products, and could add to those product categories based on the reasons why they have the most sales, while evaluating the bottom products that are selling less.
- 6. Deeper Analysis: Continue to perform deeper analysis of sales data, perhaps using methods such as regression analysis or customer segmentation, to identify more detailed patterns and opportunities