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## PORTOFOLIO DATA ANALYST

REYHAN TERRA DIFFA



## HI, MY NAME IS REYHAN TERRA DIFFA

I am a numbers person. I can read spreadsheets and data easily and welcome challenges. Besides collecting data, I also use it to tell stories. As a data storyteller, I use data information to help companies solve problems, improve process performance, and plan the next business steps.



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# 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

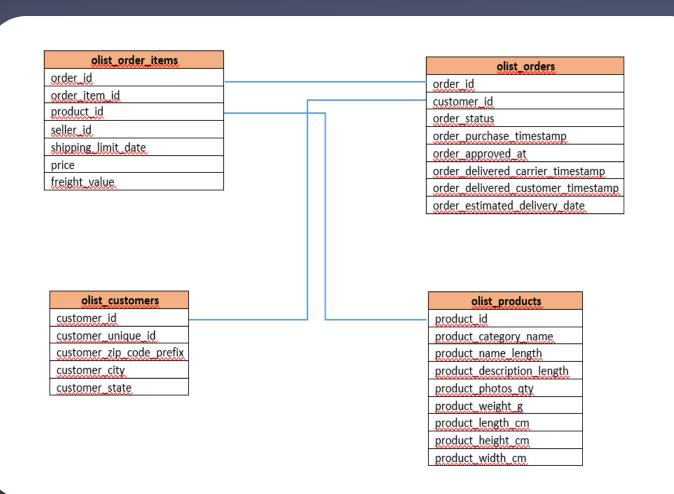
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# TOOLS





## DATABASE RELATIONSHIP TABLE



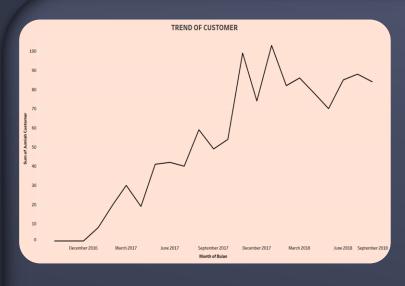
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Query to understand jumlah \_order, total\_price\_sale and jumlah\_customer for everymonth, base on order\_status

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select \*
from table1





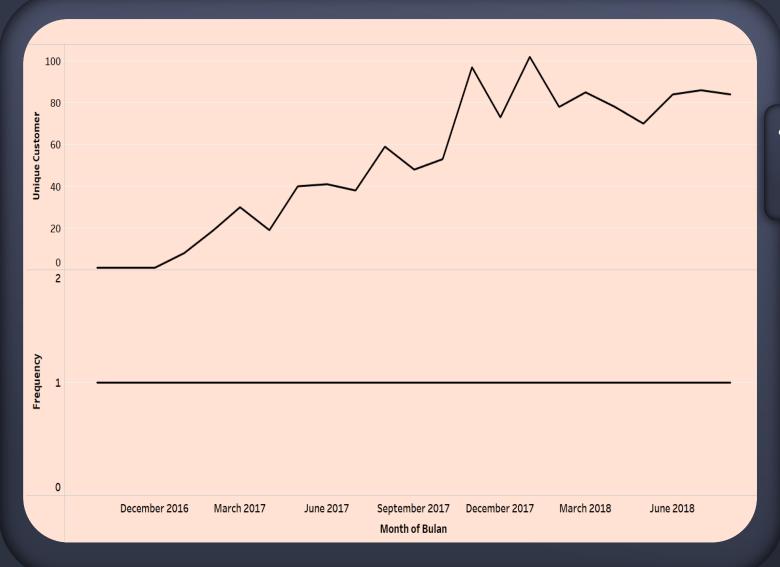


- The customer trend tends to increase from December 2016 to September 2018
- Total\_price tends to be stable from december 2016 to aug 2017, and has increased drastically in sep 2017 after that in aug 2017 it fell back to the average price like the previous month
- Based on order\_status, sum\_of\_orders and sum\_of\_customer are directly proportional

Query to understand AVO (Avarage\_Order\_Value),frequen cy, and total Unique\_Customer where orser\_status is "delivered"

select \*
from table1

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 Sales frequency is directly proportional to the number of unique customers



 The Average Order Value (AOV) trend in the data shows a seasonal pattern Query to understand biggest seller by category

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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

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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



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

### CONCLUSION AND RECOMMENDATION

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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. 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.
- 3. 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.
- 4. The Average Order Value (AOV) trend in the data shows a seasonal pattern with an increase at the beginning and end of the year, and a decrease in the middle of the year. There are also significant outliers in October 2016 that need to be investigated. Despite fluctuations, overall AOV tends to increase year over year, indicating an increase in average order value from customers. It is important to focus on strategies to overcome the sharp AOV decline in May 2018 and understand the factors that may have influenced the trend.

## CONCLUSION AND RECOMMENDATION

- 5. 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.
- 6. 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.
- 7. 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

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# TOOLS





```
WITH pizza_orders_cte AS (
  SELECT o.order_id, o.date, o.time, od.order_details_id, od.pizza_id, od.quantity
  FROM orders o
  INNER JOIN order details od ON o.order id = od.order id
pizza details cte AS (
  SELECT poc.order_id, poc.date, poc.time, poc.order_details_id, poc.pizza_id, poc.quantity,
p.pizza_type_id, p.size, p.price
  FROM pizza_orders_cte poc
  INNER JOIN pizzas p ON poc.pizza_id = p.pizza_id
pizza_types_cte AS (
  SELECT pdc.order_id, pdc.date, pdc.time, pdc.order_details_id, pdc.pizza_id, pdc.quantity,
pdc.pizza_type_id, pdc.size, pdc.price, pt.name, pt.category,
  (pdc.quantity * pdc.price) AS total_price
  FROM pizza_details_cte pdc
  INNER JOIN pizza_types pt ON pdc.pizza_type_id = pt.pizza_type_id
SELECT *,
CASE
         WHEN EXTRACT(HOUR FROM time) >= 5 AND EXTRACT(HOUR FROM time) < 12 THEN 'Morning'
         WHEN EXTRACT(HOUR FROM time) >= 12 AND EXTRACT(HOUR FROM time) < 18 THEN 'Afternoon'
         ELSE 'Evening'
       END AS time_category
FROM pizza_types_cte
WHERE order_id IS NOT NULL
```

### **SALES PERFORMANCE ANALYSIS**

Month 

Category 

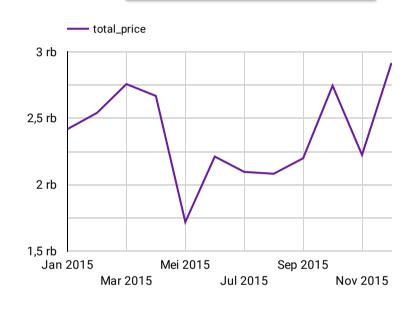
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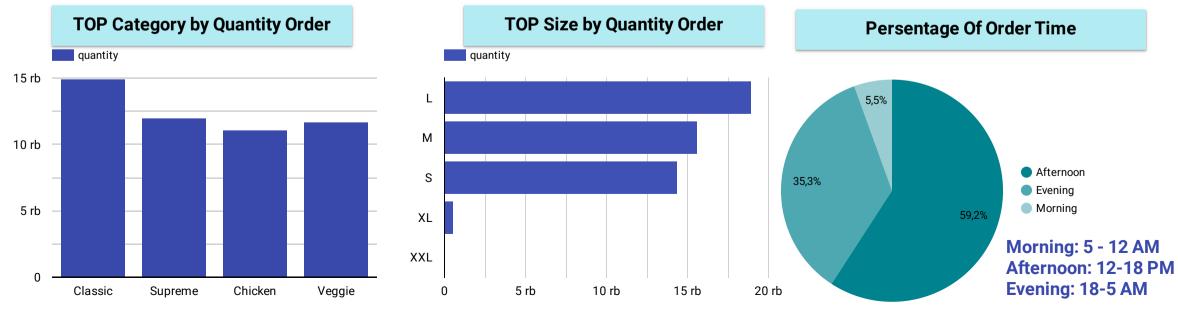
Total Sales
817.860,05

#### **TOP Of Product**

	Name	Quantity	Total Price ▼
1.	The Thai Chicken Pizza	2.371	43.434,25
2.	The Barbecue Chicken Pizza	2.432	42.768
3.	The California Chicken Pizza	2.370	41.409,5
4.	The Classic Deluxe Pizza	2.453	38.180,5
5.	The Spicy Italian Pizza	1.924	34.831,25
6.	The Southwest Chicken Pizza	1.917	34.705,75
7.	The Italian Supreme Pizza	1.884	33.476,75
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#### **Trend Of Sales**





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# TOOLS





#### **Business Perfomance Dashboard**

