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# SALES DASHBOARD AND ANALYSIS



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BI Analyst Project-Based Internship

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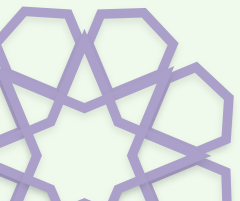
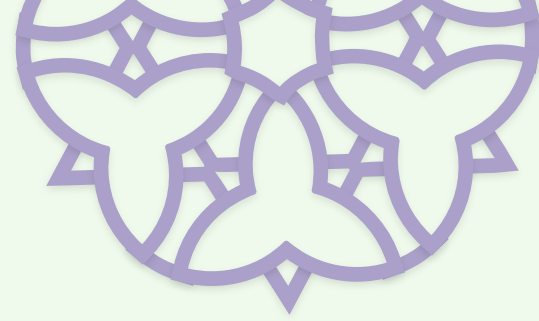
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# 01 Introduction



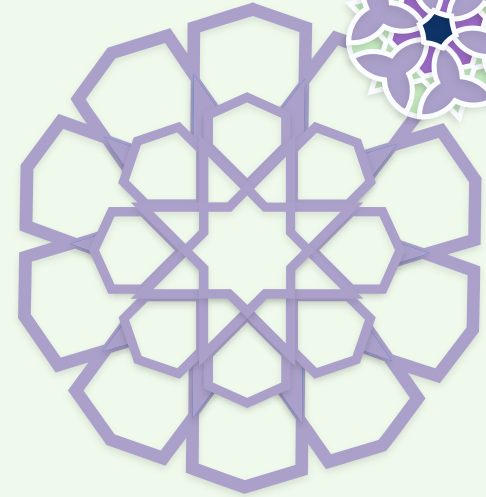
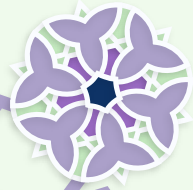
## Background

This is the final project of a 4-week project-based internship at Bank Muamalat. In this project, I served as a BI Analyst at PT Sejahtera Bersama (Study Case Company).



## Goals

Produce visualized data in the form of **Interactive Dashboards** and provide **Recommendations** based on insight analysis.



# 01 Method & Tools

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A green star-shaped icon containing a white document icon with a green tab labeled 'CSV'.

## Data Preparation

Unzip dataset using winrar and convert each excel file into csv, so it can be used in SQL platform

A green star-shaped icon containing a white database cylinder icon with a blue tab labeled 'SQL'.

## Queries

Determine Primary Key, create ERD and Master Table using Microsoft SQL Server and Google BigQuery

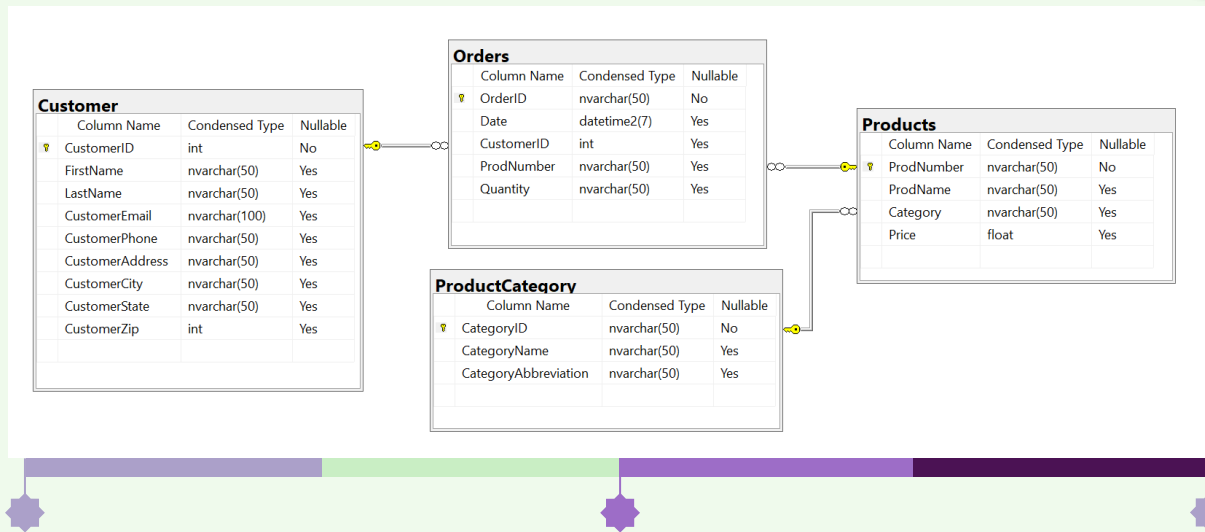
A green star-shaped icon containing the Looker Studio logo, which is a blue circle with a red and green dot and a yellow dot.

## Dashboard

Create interactive dashboard using Looker Studio

## 02

# Primary Key and ERD



Relationship 1

PK CustomerID (Customer Table)  
FK CustomerID (Orders Table)

Relationship 2

PK ProdNumber (Products Table)  
FK ProdNumber (Orders Table)

Relationship 3

PK CategoryID (ProductCategory Table)  
FK Category (Products Table)

## 02

## SQL &amp; Master Table

Create master table

```

12 SELECT Orders.Date as order_date, ProductCategory.CategoryName as category_name, Products.ProdName as product_name, Products.Price as product_price, Orders.
Quantity as order_qty, (Products.Price * Orders.Quantity) as total_sales, Customer.CustomerEmail as cust_email, Customer.CustomerCity as cust_city FROM
bm_pbi_finaltask.Customer
13 JOIN bm_pbi_finaltask.Orders ON Customer.CustomerID = Orders.CustomerID
14 JOIN bm_pbi_finaltask.Products ON Orders.ProdNumber = Products.ProdNumber
15 JOIN bm_pbi_finaltask.ProductCategory ON Products.Category = ProductCategory.CategoryID ORDER BY order_date ASC, order_qty ASC;

```

✓ This query will process 256.24 KB when run.

Using on-demand processing quota

Query results

Save results

Open in

Job information

Results

Visualization

JSON

Execution details

Execution graph

row	order_date	category_name	product_name	product_price	order_qty	total_sales	cust_email	cust_city
1	2020-01-01	Drone Kits	BYOD-220	69.0	1	69.0	edew@nba.com#mailto:edew@...	Honolulu
2	2020-01-01	eBooks	Polar Robots	23.99	2	47.98	fvaslerqt@comsenz.com#mailt...	Jackson
3	2020-01-01	Robots	RWW-75 Robot	883.0	3	2649.0	tmckernot@tinyurl.com#mailto:...	Katy
4	2020-01-01	eBooks	SCARA Robots	19.5	5	97.5	llespercx@com.com#mailto:lie...	Des Moines
5	2020-01-01	eBooks	Spherical Robots	16.75	5	83.75	lfromonte9@de.vu#mailto:lfrom...	Birmingham
6	2020-01-01	Traininn Videos	Drone Virden Techniques	37.99	6	227.94	notinnerst4@evanwrite.com#	Saint Peter

Results per page: 50

1 - 50 of 3339

Master Table is a combination of all tables, which contains:

- Customer Table: CustomerEmail (cust\_email), CustomerCity (cust\_city)
- Orders Table: OrderDate (order\_date), OrderQty (order\_qty)
- Products Table: ProductName (product\_name), ProductPrice (product\_price)
- ProductCategory Table: ProductCategoryName (category\_name)
- TotalSales (total\_sales) is Multiplication between product\_price and order\_qty

# Sales %Growth Dashboard (PT Sejahtera Bersama Study Case)

Total Sales

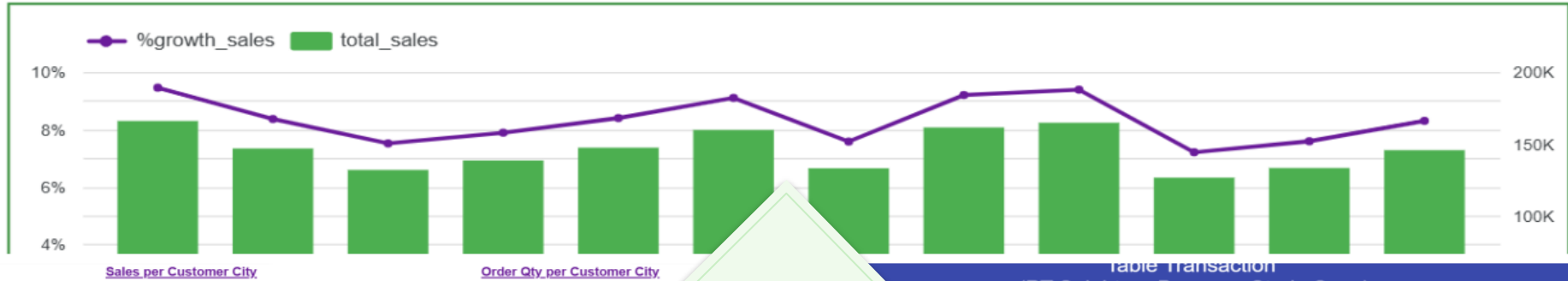
1,754,750.57

Jan 1, 2020 - Dec 31, 2021

Total Order QTY

11,654

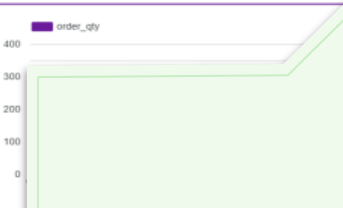
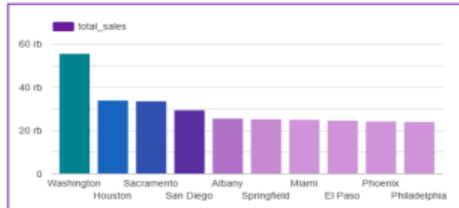
## Sales %Growth per Month



Sales per Customer City

Order Qty per Customer City

Table Transaction  
(PT Sejahtera Bersama Study Case)



Top 5 Sales per Product Category

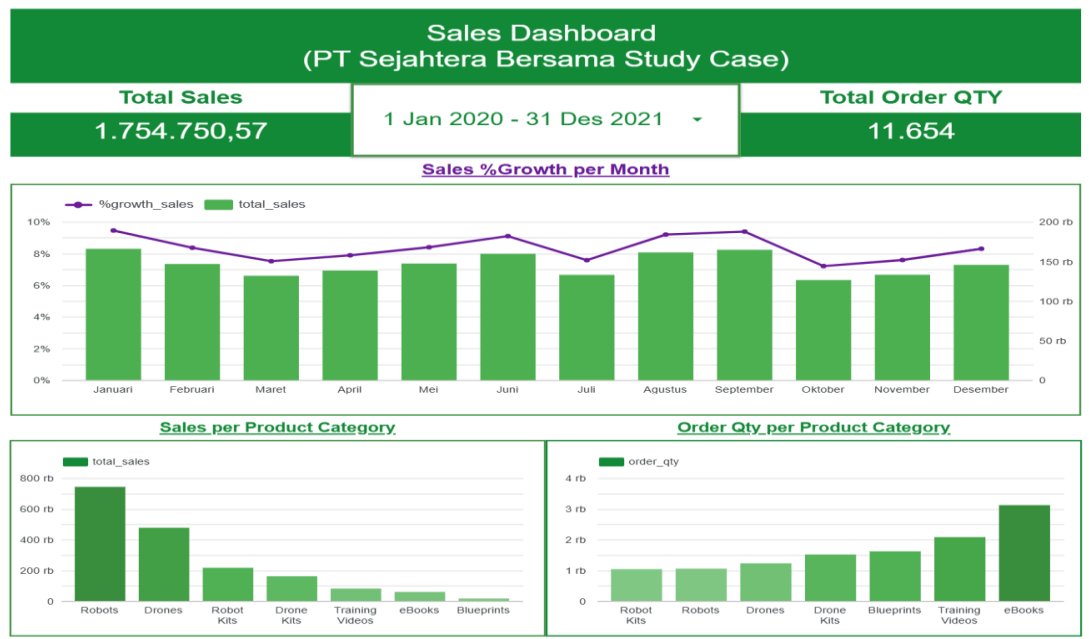


03

# Dashboard

Total Order QTY		Total Sales		City	
11,654		1,754,750.57			
product_price	order_qty	total_sales	cust_email	cust_city	
69	1	69	edrew@nba.com	Honolulu	
23.99	2	47.98	hasterql@coms...	Jackson	
863	3	2649	tmckern@nyu...	Katy	
19.5	5	97.5	llespercx@com.c...	Des Moines	
16.75	5	83.75	thomont9@de.v...	Birmingham	
37.99	6	227.94	gstggensdd@ev...	Saint Peter...	
44.95	1	44.95	kateershp@ame...	San Diego	
250	2	500	jcothurstgu@cbs...	Sacramento	
214	2	428	croyede@dot.go...	Virginia Be...	
169	2	338	gmantees4v@sta...	Washington	
37.99	2	75.98	lgatenbyel@qua...	Des Moines	
	2	378	agulongo@beha...	Houston	

# Dashboard 1

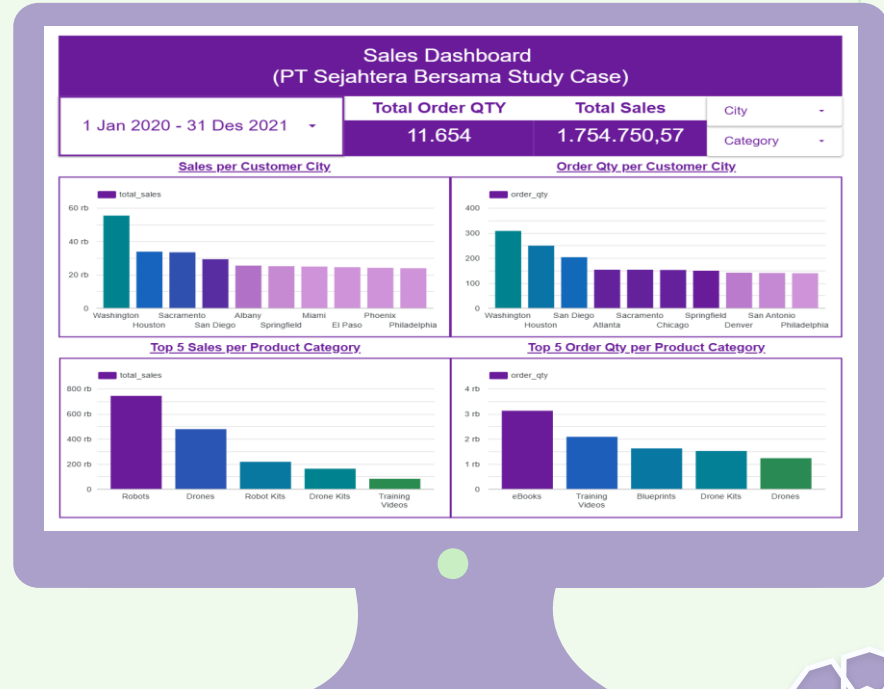


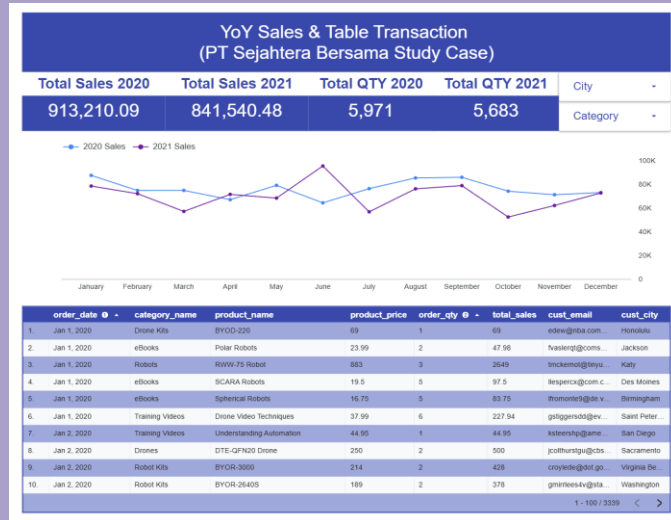
This dashboard contains the percentage of **sales growth** per month (2020 - 2021), **sales per product category**, and **number of orders per product category**. This dashboard also has a scorecard to display **total sales** and **total number of orders** which can be customized using date filters.



# Dashboard 2

This dashboard contains the **Sales** and **Order Qty** per **Customer City**, and **Top 5 Sales** and **Order Qty** per **Product Category**. This dashboard also has a scorecard with date filters, and Dropdown filter of City and Category fields.





## Dashboard 3

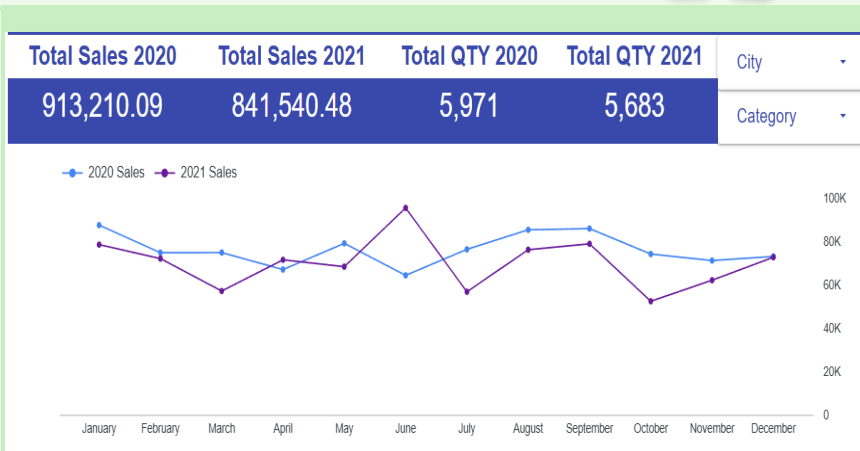
This dashboard shows the **YoY (year-over-year) Sales and Transaction Table** with the same initial features from previous dashboard.



# 04 Conclusion

## Questions

What can be suggested to maintain sales or increase sales with the existing detailed transaction table?



## Insight

### Overall Performance Decline (YoY)

- Total Sales decreased from 913K (2020) to 842K (2021) → ~8% decline.
- Total Quantity Sold also **dropped** from 5,971 to 5,683 units

## Recommendation

Sales declined in 2021 due to **reduced product demand**. By focusing on the **success of June** (the highest growth) and applying the **same strategy** as in the weaker months, driving sales through **targeted promotions** and **segment-level optimization**, growth will recover.



# Thanks!



Do you have any questions?  
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