

FINAL TASK

"Digital User Churn Dashboard & Business Insight"

Bank Muamalat Indonesia - Business Intelligence

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Project Overview

This project involved analyzing sales data from customers, products, and orders. By identifying key relationships between tables, building a clean master dataset, and visualizing sales data, we were able to generate insights into sales performance and customer behavior. This supported data-driven decision-making and targeted strategies to maintain and grow sales.

Dataset

- Customers
- Products
- Orders
- Product Category

https://drive.google.com/file/d/1RwsBQ1 FriNfz6qiq0V5nD7qF7j081To3/view

Tools



BigQuery



Looker Studio

1. Primary Key Identification

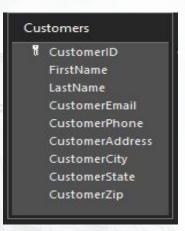
Primary key: a column, or a combination of columns, used **to uniquely identify** each row in a table. It must contain non-null, distinct values to ensure the uniqueness of each record. Serving as the **main identifier**, the primary key enables accurate and reliable relationships between tables.

Primary key in Customers Table = CustomerID

Primary key in Orders Table = OrdersID

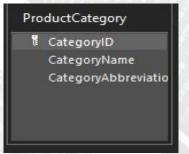
Primary key in Products Table = CustomerID

Primary key in Product Category Table = CustomerID



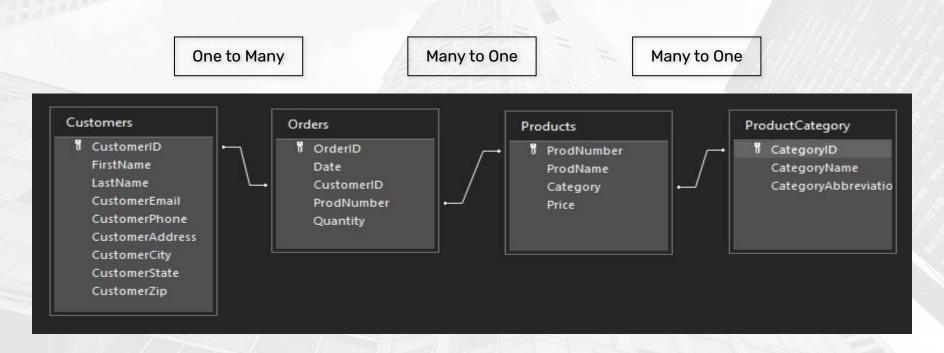






2. Entity Relationship

Ensuring relational consistency within the dataset is key to preserving **data integrity** and enabling reliable **multivariable** analysis.



3. Master Table

By building a master table first, we can combine **key data** in one place. This simplifies dashboard creation, **boosts performance**, and ensures the insights presented are **accurate** and **dependable**.

Query results

Save results ▼

M Open in ▼

Query completed

Job information		Results	Chart	JSON	Execution details	Execution graph				
Row //	order_date ▼	catego	ry_name 🕶	11	product_name ▼	// product_price ▼ //	order_qty ▼	total_sales ▼	cust_email ▼	cust_city ▼
1	2020-01-01	Drone H	Kits		BYOD-220	6900	1	6900	edew@nba.com#mailto:edew@	Honolulu
2	2020-01-01	eBooks	eBooks		Polar Robots	2399	2	4798	fvaslerqt@comsenz.com#mailt	Jackson
3	2020-01-01	eBooks		SCARA Robots	1950	5	9750	llespercx@com.com#mailto:lle	Des Moines	
4	2020-01-01	eBooks		Spherical Robots	1675	5	8375	lfromonte9@de.vu#mailto:lfrom	Birmingham	
5	2020-01-01	Robots			RWW-75 Robot	88300	3	264900	tmckernot@tinvurl.com#mailto:	Katv

Filter:

Select date range

Digital User Churn Dashboard

City

Product Category

PT Seiahtera Bersama By: Farras Fadhilah

Total Orders

Total Sales

Link Looker Studio:

https://lookerstudio.google.co m/reporting/6195a76f-3ee2-480e-8b44-bdb6fed3db98

This Dashboard provides an overview of Sales Dataset including sales orders distribution across product categories & city. It enables data-driven insights quick, into business performance & customer demand patterns.





5. Business Insight

To support sales growth at PT Sejahtera Bersama, I've analyzed the current sales data to provide a clearer understanding of the business condition. Key insights include:

- 42% of revenue comes from Robot category (high-value but low-volume).
- eBooks lead in order quantity (but generate low revenue).
- Top 5 product categories differ for sales vs. orders (signals different buyer behaviors).
- Sales are **geographically spread** (with higher concentrations in major cities and nearby regions).

Strategic Recommendations:

- Upsell physical products (Robots, Drones) to digital buyers (eBooks, Training Videos).
- Focus marketing efforts on segments with high demand to boost conversion and loyalty.
- Introduce product bundles or discount packages to encourage larger basket sizes.
- Launch targeted campaigns in cities with high order volumes but relatively low sales to boost revenue

Thank You





