





Visca Chaerunnisa Bachri

ABOUT ME

Hi! I'm Visca, a passionate Informatics Engineering student from Politeknik Negeri Jakarta who loves turning data into stories. Through my experience as a BI Analyst Intern in the Rakamin x Bank Muamalat Virtual Internship Program, I developed skills in analyzing sales data, building dashboards, and uncovering insights that drive better decisions. For me, data isn't just about analytics—it's about finding patterns, solving problems, and creating impact.

MY EXPERIENCE

Al Engineer Intern – Pusat Penelitian dan Pengabdian Masyarakat (P3M) PNJ

- Contributed to Al-based research projects in image processing and computer vision.
- Assisted in developing machine learning models for real data experiments.
- Tools: Python, TensorFlow, YOLO, Google Colab

Virtual Business Intelligence Analyst Intern – Rakamin x Bank Muamalat

- Participated in a virtual internship program focusing on data analysis and visualization.
- Processed and analyzed sales data using Google BigQuery and Looker Studio.
- Tools: BigQuery, Looker Studio, Google Sheets

Data Analytics Projects – RevoU, DQLab, and KarirNex Bootcamps

- Completed multiple bootcamp projects involving data cleaning, exploration, and visualization.
- Generated actionable insights from business datasets using Python and BI tools.
- Tools: Python (Pandas, Matplotlib), Excel, Google Data Studi, Tableau, PowerBl





Bank Muamalat Indonesia is the first and only pure Islamic bank in Indonesia, established in 1991 and operating entirely based on Sharia principles. In addition, it is the only Indonesian Islamic bank with an overseas branch, located in Kuala Lumpur, Malaysia, demonstrating its strong commitment and presence in expanding Sharia-compliant banking services internationally. The bank focuses on providing a wide range of banking services aligned with Islamic values, offering products such as savings, financing, and digital banking. Through this virtual internship program, Bank Muamalat collaborates with Rakamin Academy to provide participants with real-world experience as Business Intelligence Analysts, focusing on data processing and generating meaningful insights to support strategic business decision-making.



Case Study:

Sales and Product Distribution Performance

Analysis of PT Sejahtera Bersama

Project Objectives:

- Identify sales trends based on product categories and regions
- Create an interactive dashboard to support business decision-making
- Provide strategic recommendations to increase sales



Primary Key Identification

DATASET

Table

Column

Primary Key (PK)

Customers

CustomerID, FirstName, LastName, CustomerEmail, CustomerPhone, CustomerAddress, CustomerCity, CustomerState, CustomerZip

CustomerID /

Products

ProdNumber, ProdName, Category, Price

ProdNumber /

Orders

OrderID, Date, CustomerID, ProdNumber, Quantity

OrderID /

ProductCategory

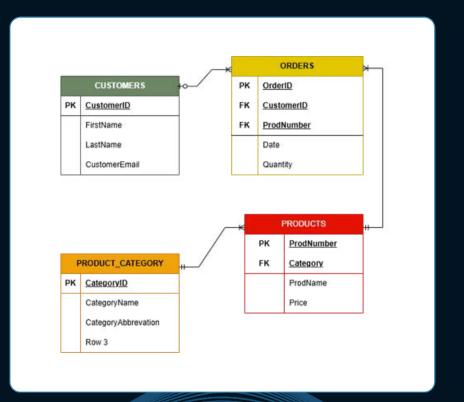
CategoryID, CategoryName, CategoryAbbreviation

CategoryID/

Rakamin

Entity Relationship Diagram (ERD)





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Data Processing in Google **BigQuery**





2021-04-19

Final master table used for visualization in Looker Studio

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The guery combines four tables (Customers, Orders, Products, and ProductCategory) to create a master sales table containing customer, product, category, and order information. It also calculates total sales per transaction before exporting he data for visualization in ocker Studio.



Data Visualization and Reporting

Key Insights:

- Total sales reached \$1,754,750.57 with 11,654 items sold during the 2020-2021 period.
- The Robots and Drones categories provided the highest sales contribution compared to other categories.
- The cities of Washington and Houston are the regions with the largest total sales.
- The eBooks and Training Videos categories had the highest sales volume (quantity), indicating high demand for digital education-based products.



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are represented in USD for visualization purposes



Bussiness [Recomendation

Based on the sales data analysis results, it is suggested that the company focus on increasing stock and promotion for the Robots and Drones categories, as these two categories contributed the highest sales revenue. By ensuring product availability and consistent promotional strategies, the company can maintain stable sales performance in this segment. Furthermore, a more aggressive digital marketing campaign should be executed in high-sales cities, such as Washington and Houston, to strengthen customer loyalty and expand market reach

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The company can also leverage Business Intelligence (BI) analysis to monitor product performance per region periodically, enabling quicker and more targeted decision-making regarding distribution and promotions. Finally, a product bundling strategy or offering thematic discounts could be applied to categories with high sales volume (large quantity) but low total sales value, such as eBooks or Training Videos, to increase the average transaction value and attract new customers.

Conclusion 📶



Overall, this project demonstrates how utilizing Business Intelligence tools such as Google BigQuery and Looker Studio can help the company transform raw data into meaningful insights. Through this analysis, a comprehensive overview of sales trends—based on product category, city, and time period—was obtained, which can serve as a foundation for strategic decision-making in marketing and inventory management.

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This project also provides a deep understanding of the importance of data integration and interactive visualization in supporting data-driven decision-making processes. This experience serves as valuable learning in developing the analytical and technical skills required for a future career as a Business Intelligence Analyst.

