

Logo Company

Sales Data Analysis

Bank Muamalat Business Intelligence

Presented by Philipus Dima Wira Pratomo





Philipus Dima Wira Pratomo

About You

Graduated from Pertamina University majoring in petroleum engineering with a GPA of 3.78. Currently I want to shift career to data scientist by attending a data science bootcamp. where I am developing expertise using data visualization tools such as Tableau and Looker Studio, SQL and several Python libraries to create machine learning. My objective is to become a professional data scientist and leverage my skills to contribute to data-driven decision-making in diverse industries.

Job Experience

PT Global Digital Niaga Tbk (blibli.com)
Merchandising Junior Officer

Home Credit Indonesia Data Scientist Project Based Internship Program

Kalbe Nutritionals Data Scientist
 Project Based Internship Program





Find the Primary Key of Each Data

Make an Entity Relationship Diagram

Big Query : Make a Table Master to Analysis

Looker Studio: Data Analyst & Business Recommendation

Data Explanation



The data consist of 4 table:

Orders	Information
OrderID	contains unique data for each order
Date	the date the order was formed
CustomerID	contains unique data for each customer
ProdNumber	contains unique data for each product
Quantity	quantity purchased per order id

Products	Information
ProdNumber	contains unique data for each product
ProdName	contains name for each product
Category	contains category for each product
Price	contains price for each product

ProductCategory	Information
CategoryID	contains unique data for each category product
CategoryName	contains name for each category product
CategoryAbbreviation	Category Abbreviation for each category product

Data Explanation Cont



Customers	Information
CustomerID	contains unique data for each customer
FirstName	contains first name for each customer
LastName	contains last name for each customer
CustomerEmail	contains email for each customer
CustomerPhone	contains phone number for each customer
CustomerAddress	contains address where the customer live for each customer
CustomerCity	contains city where the customer live for each customer
CustomerState	contains state where the customer live for each customer
CustomerZip	contains zip code where the customer live for each customer



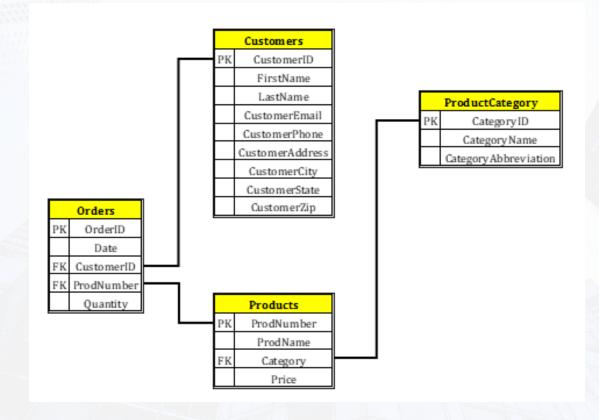


Determine each primary key in the 4 dataset :

- 1. Primary key tabel Customer: CustomerID
- Primary key tabel Products: ProdNumber
- 3. Primary key tabel Orders: OrderID
- 4. Primary key tabel ProductCategory: CategoryID



Make an Entity Relationship Diagram





Steps:

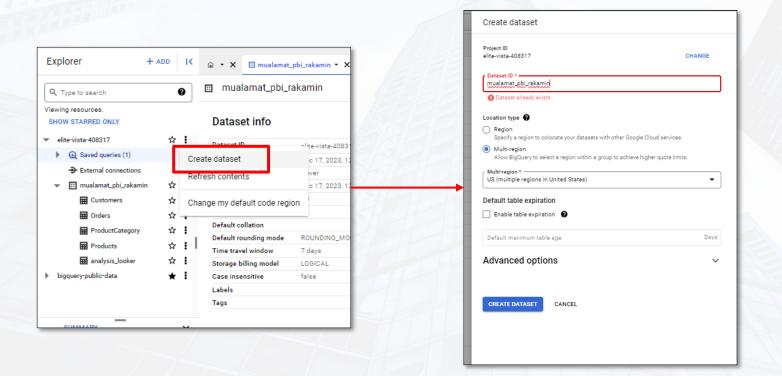
First Make a Dataset in Big Query

Add Local File Upload

Make a Data set to Analysis



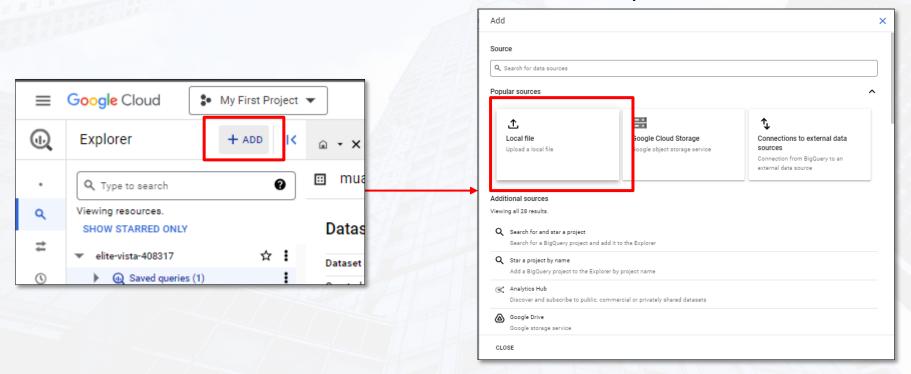
First Make a Dataset in Big Query





Add Local File Upload

Upload 4 data set





Make a Data Set in Query and download it into csv file

Using query to make new Data set consist of :

- CustomerEmail (cust_email)
- CustomerCity (cust_city)
- OrderDate (order_date)
- 4. OrderQty (order_qty)
- ProductName (product_name)
- 6. ProductPrice (product_price)
- 7. ProductCategoryName (category_name)
- 8. TotalSales (total_sales)

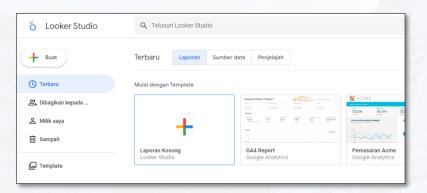
```
WITH new cat AS (
SELECT
 o.ProdNumber,
 o.ProdName,
 o.Category,
 o.Price,
 c.CategoryName
FROM
 `elite-vista-408317.mualamat_pbi_rakamin.Products` o
IOIN
  'elite-vista-408317.mualamat_pbi_rakamin.ProductCategory' c ON o.Category = c.CategoryID
SELECT
 c.CustomerEmail AS cust email,
 c.CustomerCity AS cust_city,
 o.Date AS order date,
 o.Quantity AS order_qty,
 p.ProdName AS product_name,
 p.Price AS product_price,
 p.CategoryName AS category_name,
 (o.Quantity * p.Price) AS total_sales
FROM
 'elite-vista-408317.mualamat pbi rakamin.Orders' o
IOIN
  `elite-vista-408317.mualamat_pbi_rakamin.Customers` c ON o.CustomerID = c.CustomerID
IOIN
 new_cat p ON o.ProdNumber = p.ProdNumber
ORDER BY
 o.Date:
```



Looker Studio : Data Analyst



1. Make an empty report



2. Upload data using csv file that already make

+	Tambahkan data ke lapo	oran		Kredensial data:		
<u></u>	★ Upload File On Google And page-remasking data is Looker Books dad hamp? semus synther deeps menguined file CDV (olds) prog diplantium looks), (light of the removal) has a looker Books data and the remaining data and sold of the health's remain. PELAMBISELENCARYNY LANGORM MASSLAN					
Set Da	ata ob_a174b79_18cc4bad084.cav	Q				
			Tarik file ke sini untuk membuat Set Data baru. Araz, jisa Anda bibb nuka KUK UNTUK MEMPUAN GAO FILE			
BUAT	SET DATA BARU					



Make a Dashboard Sales Performance Tracker

There is a dashboard containing:

- Total sales
- Total sales based on product category
- Total qty based on product category
- Total sales by city
- Total qty by city
- Top 5 product categories with the highest sales
- Top 5 product categories with the highest qty



Make a Dashboard Sales Performance Tracker

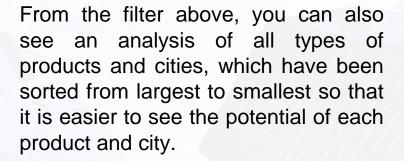
SALES PERFORMANCE TRACKER Sales Performance 160 fb 145.673 133,210

with the help of year, month and category filters you can help with daily, monthly and yearly analysis

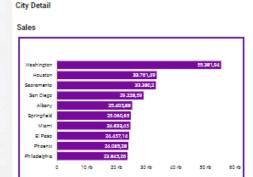


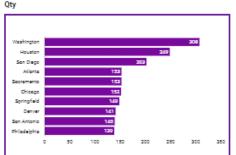
Make a Dashboard Sales Performance Tracker





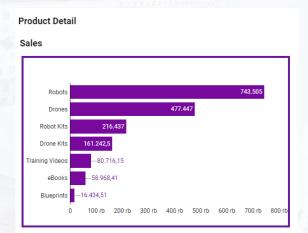
From this bar graph, you can also see the top 5 products in terms of sales and quantity, apart from that you can also see the top 5 cities in terms of sales and quantity.

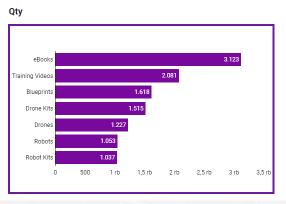






Analysis & Business Recommendation





Analysis

The graph next to it shows details of sales by product from total sales for 2 years. It can be seen that robots have the highest total sales but have the lowest total quantity sold. On the other hand, books have the lowest total sales, but have the highest total quantity sold.

Business Reccomendation

Sales Strategy Integration:

- Cross-Promotion: Use the strengths of each product to promote each other. For example, give discount vouchers for purchasing ebooks to buyers of robots, and vice versa. This could drive sales in both products.
- 2. Combined Packages: Create attractive combined packages by pairing robots and ebooks products to offer better value to customers. This could spur sales for both products.



Insert Your Link Here

Link Looker Studio: https://lookerstudio.google.com/reporting/2bbd7011-9d9b-4fb1-9a6d-

68d0df4d4dec

Link GitHub: https://github.com/pwirap



Video Presentation Here

https://youtu.be/5hxZVTzs5UY

Thank You





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