

# Business Performance Analysis of Kimia Farma (2020–2023)

Kimia Farma - Big Data Analytics

Presented by Gede Arya Kusuma Negara





#### Gede Arya Kusuma Negara, A.Md.Kom.

I am an Information Management graduate with a strong passion for pursuing a career as a Data Analyst. Through my academic journey and project experience, I have built solid skills in Statistics, Excel, SQL, Python, and data visualization using Looker and Tableau. I also completed a Data Analyst bootcamp, where I gained extensive knowledge of data and successfully completed the program with a final project based on a real-world case study. I see data not just as numbers, but as meaningful insights that can support smarter business decisions.



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#### Courses and Certification

#### Harisenin.com

Bootcamp Data Analyst Link Certificate

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#### About **Company**

Kimia Farma is the first pharmaceutical industry company in Indonesia, founded by the Government of the Dutch East Indies in 1817. Initially, the company was named NV Chemicalien Handle Rathkamp & Co. Based on the nationalization policy of former Dutch companies in the early years of independence, in 1958 the Government of the Republic of Indonesia merged several pharmaceutical companies into PNF (Perusahaan Negara Farmasi) Bhinneka Kimia Farma. Then, on August 16, 1971, the legal form of PNF was changed to a Limited Liability Company, and the company's name was changed to PT Kimia Farma (Persero).



https://www.kimiafarma.co.id/



@kimiafarma.ind



#### Project Portfolio

As a Big Data Analytics Intern at Kimia Farma, you will face a series of challenges that require a deep understanding of data and strong analytical skills. One of the main projects is to evaluate Kimia Farma's business performance from 2020 to 2023.

Tasks to be completed:

#### 1). Importing Datasets into BigQuery

In this stage, you are responsible for importing the provided datasets into BigQuery. The datasets used consist of:

- kf\_final\_transaction.csv
- kf\_inventory.csv
- kf\_kantor\_cabang.csv
- kf\_produk.csv

These four datasets must be imported into tables in BigQuery using the same names as the datasets, but without the ".csv" extension.

Repository link

Presentation video link



# Project **Portfolio**

#### 2). Creating an Analysis Table

In this step, you will be asked to create an analysis table based on the aggregation results from the four tables previously imported (kf\_final\_transaction, kf\_inventory, kf\_kantor\_cabang, and kf\_produk).

Column Name	Description			
transaction_id	Transaction ID code			
date	Date when the transaction was made			
branch_id	Kimia Farma branch ID code			
branch_name	me of the Kimia Farma branch			
kota	City of the Kimia Farma branch			
provinsi	Province of the Kimia Farma branch			
rating_cabang	Customer rating for the Kimia Farma branch			
customer_name	Name of the customer who made the transaction			
product_id	Medicine product code			
product_name	Name of the medicine			
actual_price	Product price			
discount_percentage	Discount percentage applied to the product			
persentase_gross_laba	<ul> <li>Price ≤ Rp 50,000 → profit 10%, • Price &gt; Rp 50,000 100,000 → profit 15%, • Price &gt; Rp 100,000 − 300,000 → profit 20%, • Price &gt; Rp 300,000 − 500,000 → profit 25%, • Price &gt; Rp 500,000 → profit 30%</li> </ul>			
nett_sales	Price after discount			
nett_profit	Profit earned by Kimia Farma			
rating_transaksi	Customer rating for the transaction			



### Project **Portfolio**

#### 3) Building a Business Performance Dashboard in Google Looker Studio

In this project, you are required to create a Business Performance Dashboard of Kimia Farma (2020–2023) using Google Looker Studio. The dashboard should be based on the analysis table you have previously built in BigQuery, which must be connected as the data source in Looker Studio.

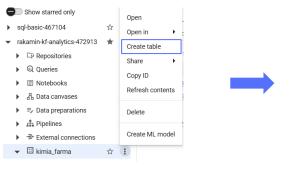
- Dashboard Title
- Dashboard Summary
- Filter Controls
- Data Snapshots
- Year-over-year comparison of Kimia Farma's revenue
- Top 10 provinces by total transactions
- Top 10 provinces by net sales
- Top 5 branches with the highest ratings but lowest transaction counts
- Indonesia Geo Map showing total profit by province
- Additional analytical insights that you may further explore



## Importing Dataset to **BigQuery**

First, create a new project with the name Rakamin-KF-Analytics -> create a dataset with the name kimia\_farma

Click the three dots next to the dataset and select **Create Table.** 





All tables were created successfully



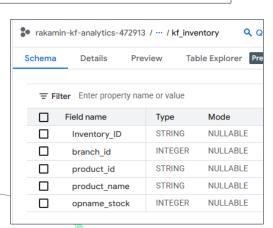
A form will appear. Fill in the required fields, select your file, and name the table. Check Auto-Detect under the schema options. Click **Create Table.** Repeat the process for the remaining tables.

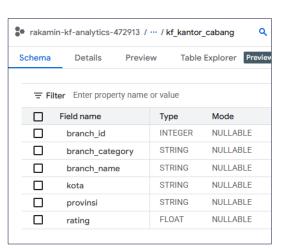


# Importing Dataset to BigQuery

The result

Schema	Details	Preview	Table Exp	lorer Preview	Insig
∓ Filt	er Enter prope	rty name or va	alue		
	Field name		Туре	Mode	Descrip
	transaction_	id	STRING	NULLABLE	-
	date		DATE	NULLABLE	-
	branch_id		INTEGER	NULLABLE	-
customer_name			STRING	NULLABLE	-
	product_id		STRING	NULLABLE	-
	price		INTEGER	NULLABLE	-
	discount_pe	rcentage	FLOAT	NULLABLE	-
	rating		FLOAT	NULLABLE	-

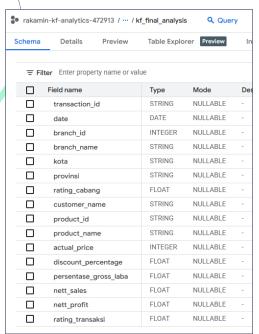


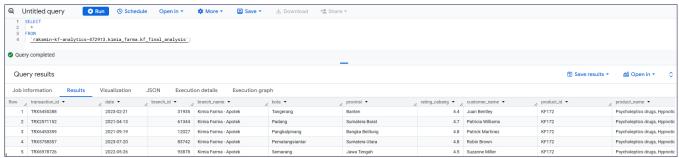


3-	rakamin-kf-analytics-472913 / ··· / kf_product Q Query								
S	chema	Details	Preview	Table Ex	plorer Previe				
	= Eilte	r Enter proper	ty name or v	alue					
	Field name			Туре	Mode				
		product_id		STRING	NULLABLE				
		product_nam	ie	STRING	NULLABLE				
		product_cate	gory	STRING	NULLABLE				
		price		INTEGER	NULLABLE				



## Analysis Table





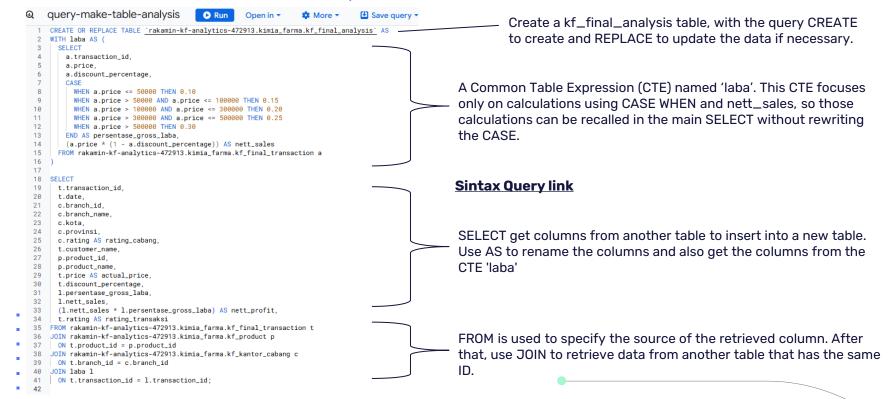
This analysis table is named **kf\_final\_analysis**.

This table was created using a SQL query in BigQuery by joining four source tables (kf\_final\_transaction, kf\_inventory, kf\_branch\_office, and kf\_produk). The goal of this process is to produce a consolidated dataset containing all the columns required for analysis.



## BigQuery Syntax

#### Create a new table, named "kf\_final\_analysis"





# Dashboard **Analytics**

**Dashboard Kimia Farma** 





# Thank You





