





Big Data Analytics: Salicyl Sales Dashboard

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Project-Based Intern: Big Data Analytics Virtual Internship PT. Kimia Farma Tbk

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1. Background

Determine the background data and analysis performed.

2. Table Used

There are 3 table that we will use according the task of this project.

3. Data Process, Visualization, Insight

A l step of data proces until turn out visualize and the elaborate of insights.

4. Suggestion

Advice and recommendations for company.









Cover

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01. Background

Kimia Farma is the first pharmaceutical industry company in Indonesia which was founded by the Dutch East Indies Government in 1817.

In this project, I was assigned as Big Data Analytics at PT. Klmia Farma, Tbk to do some task such as making report and dashboard related to sales data of Brand Salycil. After brief overview the data, it seem that the data starting from January to June 2022.









02. Table Used

There are 3 table used such as :Table Penjualan (Sales), Table Pelanggan (Customer), Table Baang (Product). All of them have already available from Kimia Farma's data and I using MySQL to convert it.



Link to see Dataset:

Cover

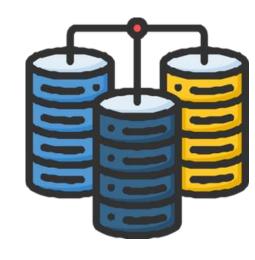


03. Data Process, Visualization, and Insights

List to do:

- In this project, I using SQL Querying by MySQL for data warehousing and do analysis until consists 3 tables such as : table sales, table customer, table product.
- Then, I did visualization analysis by creating Sales Dashboard using Google Data Studio.
- At the last, I elaborate my analysis and give some suggestions.









SQL Query for preparing the data before visualization

```
1 SELECT
       tanggal as Date,
       id invoice as InvoiceID,
       a.id_customer as CustomerID,
       b.nama as CustomerName,
       id_barang as ProductID,
       c.nama barang as ProductName,
      id cabang as BranchID,
       b.cabang_sales as BranchArea,
       brand_id as BrandID,
10
      c.lini as BrandName,
11
       jumlah_barang as ProductQuantity,
12
       harga as Price,
13
       kemasan as Packaging
14
15 FROM penjualan as a
16 INNER JOIN pelanggan as b on a.id_customer = b.id_customer
17 INNER JOIN barang as c on a.id barang = c.kode barang;
18
```

If you want to reach my visualization. Please check this link:

01. Background 02. Table Used

03. Data Process, Visualization, Insghts





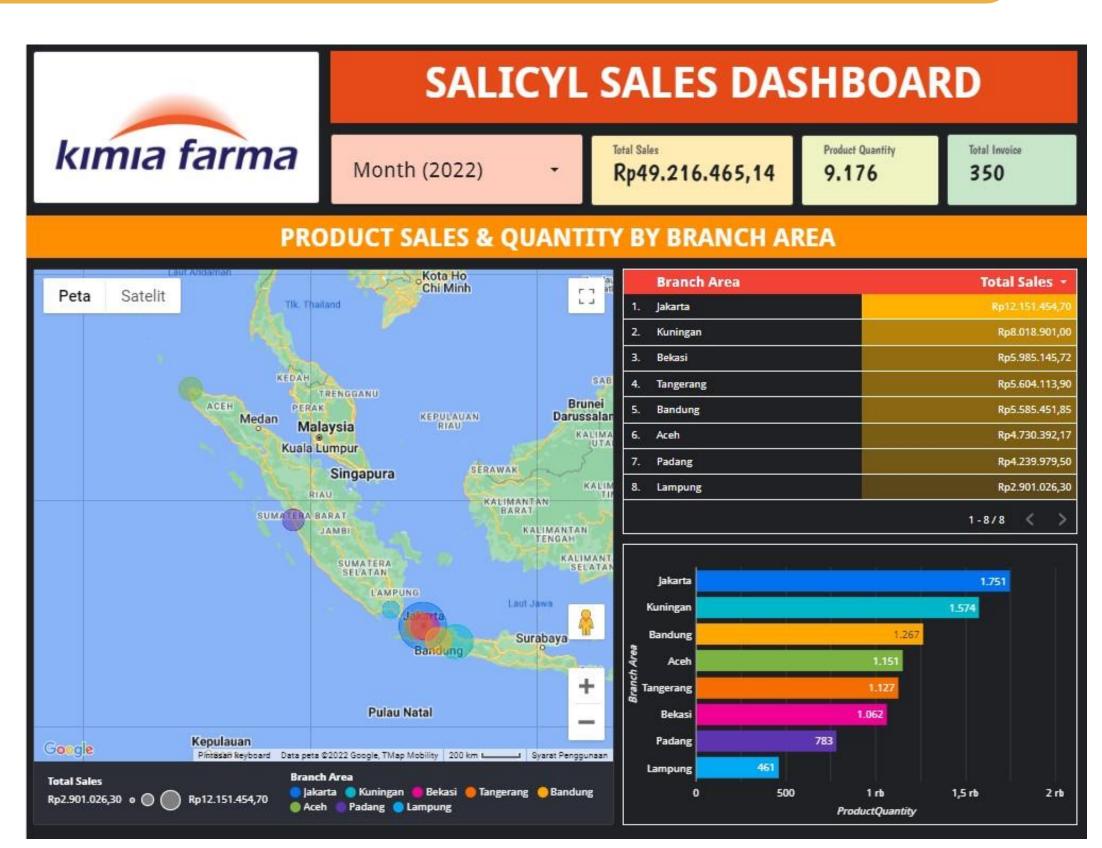
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Overview Visualization

This is visualization for all total sales, total product quantity, total invoice, month (using filter) and also overview about product sales & quantity by branch area.

Insight:

As the result of beside visualization, the most sales are in Jakarta branch area with amount Rp 12.151.454,70 and also has the highest number of product quantity too with amount 1.751







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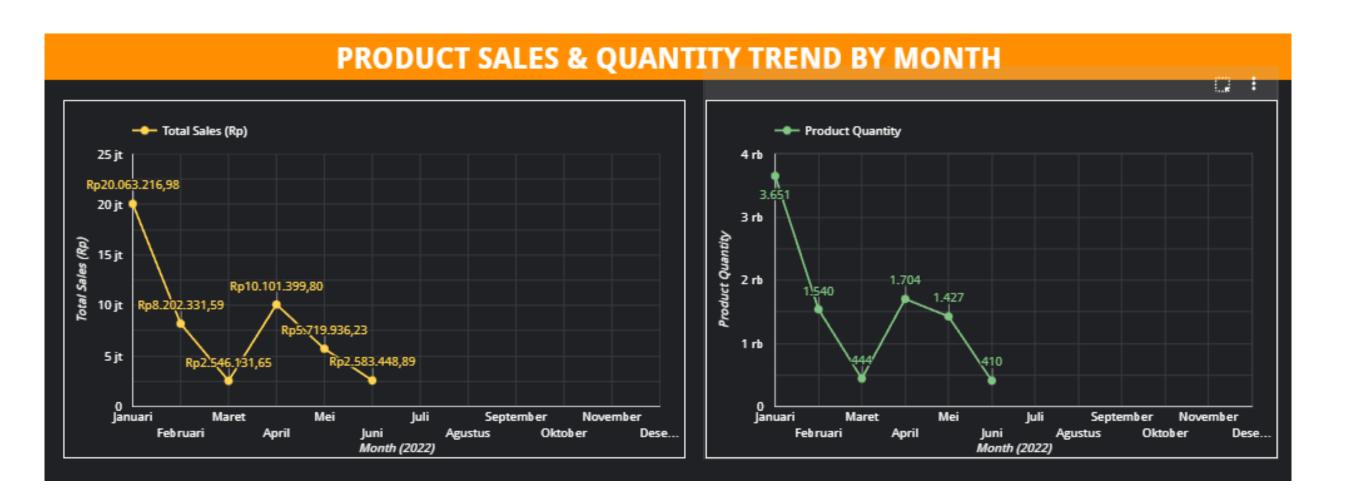
Insight:

Based on the visualization shows that the sales of the top three products (highest sales) are Ampicillin (Rp 13.002.028,50), Tramadol Kapsul 50 mg (Rp 8.339.311,50), and Paracetamol (IRp 5.704.926,60). Meanwhile, when viewed from product quantity, there is a slight difference where the three products with the most supply are Ampicillin (1,377), Acyclovir Box(1,285), and Allergen Tablet Coated (1,025).

It indicates an imbalance between sales and the availability of drug stocks. Because there are some drugs whose sales are high, but the stock is low, and vice versa.





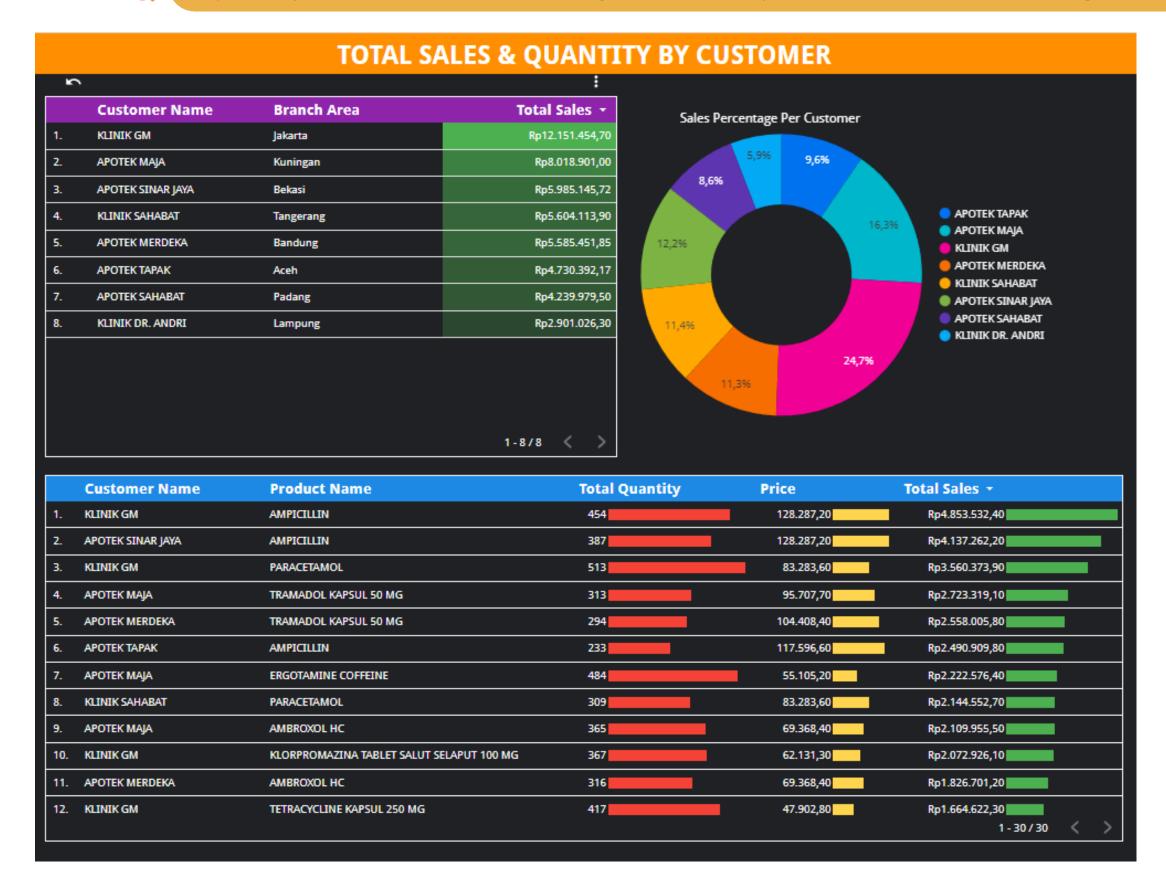


Insight:

From the graph, we can see that the number of product sales and product quantity trend almost the same (volatile trend). However, it seems to start to differ significantly in April - June 2022. This is indicate that supply product quantity in April - June 2022 more higher than the product sales of the months. As same like the first insights at previous slide that indicates an imbalance between sales and the availability of drug stocks.



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Insight:

This visualization show about the details of total sales per customer and per branch area and also the table of detail purchase per customer that shows their total quantity, price, and total sales for all products are purchased.

For example, the GM Clinic is the best customer with the most purchases of "Ampicillin" products, so the company decides to make it the best customer because the company has the highest sales from that customer.





04. Solutions

- The dataset especially for customer data will be perfect if it contains of address, email, and phone number in order to make sure that company can do some investigation if has problems in the future or may give their some promotions.
- Meanwhile, for product quantity (stocks) can be adjusted according the weather conditions or the report of health data in certain areas. We must focused in the area which diseases often occur and ensure the product needs are available and also ensure that no products accumulate and expired.





01. Background 02. Table of Interest

03. Data Proce

04. Suggestion

Thank You



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Thank You!



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