



FINAL TASK

VIX KIMIA FARMA

Wrahaspati Jati Zaelani



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Wrahas is a motivated freshgraduate from
Padjadjaran University and a data enthusiast.
Recently graduated from data science
bootcamp from Rakamin Academy.
Familiar working with SQL, excel,python and
Vizualization tools such as google data studio.

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About The Porject

This project is a final task from my four weeks Project Based Virtual Internship Experience (VIX) on Kimia Farma. This project is about designing, creating datamart and visualizing data based on the 2022 Salicyl Brand Sales.

Tools used:

postgreSQL, Google Data Studio

CONTENT:

Designing Datamart

Datamart Base Query

Datamart Aggregation Query

Data Dashboard

Design Datamart

Query Datamart base

https://docs.google.com/document/d/1HR3guelT7DCWueMLZiyFE853sBQc2_oDqhR6TmS5adc/edit?usp=share_link

Query Datamart Aggregate

https://docs.google.com/document/d/1MVGRu7f D1UcJUIM6jJguUH8YLfmBnHKLTgYthQBJUz8/e dit?usp=share_link

Query Datamart Base 'Master Barang'

```
SELECT bds.kode_barang,bds.nama_barang,bds.kemasan,bds.harga,bt.sektor,bt.tipe,bt.nama_tipe,bt.kode_lini,bt.lini,bds.brand FROM barang_ds AS bds
INNER JOIN barang_table AS bt ON bt.kode_barang=bds.kode_barang
GROUP BY 1,2,3,4,5,6,7,8,9,10
```

Table Base: Master Table Barang

Column	Data Type	Description	
kode_barang	Character Varying	Keterangan Kode Barang	
nama_barang	Character Varying	Keterangan Nama Barang	
kemasan	Character Varying	Keterangan Jenis Kemasan	
harga	Numeric	Keterangan Nomnal Harga	
sektor	Character Varying	Keterangan Nama Sektor	
tipe	Character Varying	Keterangan Jenis Tipe Produk	
nama_tipe	Character Varying	Keterangan Nama Tipe	

Column	Data Type	Description	
kode_lini	Integer	Keterangan Kode Lini (angka)	
lini	Character Varying	Keterangam Kategori Lini	
brand	Character Varying	Keterangan Nama Brand	

Query Datamart Base "Master Table PenjualanPelanggan"

Table Base "Master Table Penjualan Pengguna"

Column	Data Type	Description	
id_customer	Character Varying	Keterangan Kode ID Customer	
Id_distributor	Character Varying	Keterangan Nama Kode ID Distributor	
id_cabang	Character Varying	Keterangan Kode ID Cabang	
id_invoice	Character Varying	Keterangan Kode ID Invoice	
id_barang	Character Varying	Keterangan Kode ID Barang	
nama	Character Varying	Keterangan Nama Lokasi Penjualan	
tanggal	Datetime	Keterangan Tanggal Penjualan	

Column	Data Type	Description	
jumlah_barang	Integer	Keterangan Jumlah Barang(angka)	
harga	Numeric	Keterangan Nominal Harga Barang	
mata_uang	Character Varying	Keterangan Jenis Mata Uang	
brand_id	Character Varying	Keterangan Kode ID Brand	
lini	Character Varying	Keterangan Kategori Lini	
cabang_sales	Character Varying	Keterangan Nama Lokasi Penjualan	
level	Character Varying	Keterangan Kategori Level	
Group	Character Varying	Keterangan Kategori Group	

Query Datamart Aggregate "Master Table"

Membuat master_table gabungan dari (table_master_barang) dan (master_penjualan_pelanggan), aghregasi yang dilakukan adalah jumlah barang yang dikali dengan harga untuk mendapatkan total sales (penjualan).

Table Aggregate "Master Table"

Column	Data Type	Description	
id_customer	Character Varying	Keterangan Kode ID Customer	
Id_distributor	Character Varying	Keterangan Nama Kode ID Distributor	
id_cabang	Character Varying	Keterangan Kode ID Cabang	
id_invoice	Character Varying	Keterangan Kode ID Invoice	
kode_barang	Character Varying	Keterangan Kode Barang	
nama_barang	Character Varying	Keterangan Nama Barang	
kemasan	Character Varying	Keterangan Jenis Kemasan	

Column	Data Type	Description	
brand	Character Varying	Keterangan Nama Brand	
nama	Character Varying	Keterangan Nama Lokasi Penjualan	
tanggal	Datetime	Keterangan Tanggal Penjualan	
jumlah_barang	Integer	Keterangan Jumlah Barang	
Harga	Numeric	Keterangan Harga	
mata_uang	Character Varying	Keterangan Jenis Mata Uang	
tipe	Character Varying	Keterangan Jenis Tipe	
total_sales	Numeric jumlah_barang) = Total Penjualan		

Query Datamart Aggregate "Monthly Brand Revenue"

```
--Monthly Brand Revenue
select brand, sum(jumlah_barang * harga) as revenue,
date_part('month', tanggal) as month
from master_table
group by 1,3
order by 3
```

Table Aggregate "Monthly Brand Revenue"

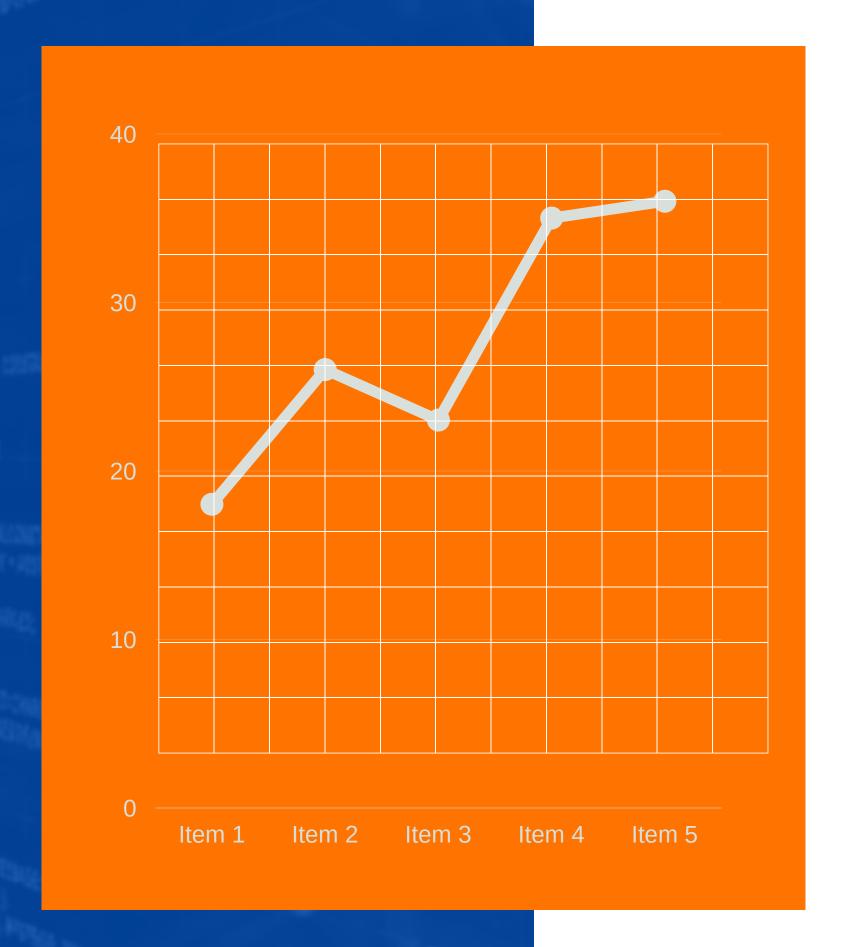
Column	Data Type	Description	
Brand	Character Varying	Keterangan Nama Brand	
Revenue	Numeric	Keterangan Jumlah Revenue	
Month	Datetime	Keterangan Bulan	

Query Datamart Aggregate "Location Revenue and Quantity"

```
Total Revenue dan quantitiy sales Per Lokasi Penjualan
select nama AS lokasi_penjualan,
sum(jumlah_barang * harga) as revenue,
sum(jumlah_barang) as average_quantity
from master_table
group by 1
order by 2 ASC
```

Table Aggregate "Location Revenue and Quantity"

Column	Data Type	Description	
Lokasi_Penjualan	Character Varying	Keterangan Lokasi Penjualan	
Revenue	Numeric	Keterangan Jumlah Revenue	
Average Quantity	Integer	Keterangan Jumlah rata-rata jumlah barang terjual	



Data Visualization

Link:

https://datastudio.google.com/reporting/df073b00-126c-453e-a37b-d54dd1bd01ee

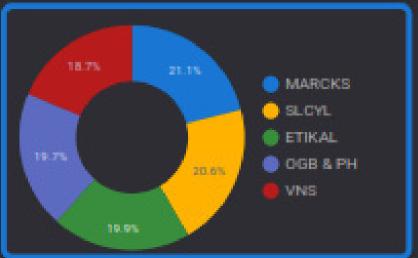
Salicyl Sales VIX Kimia Farma

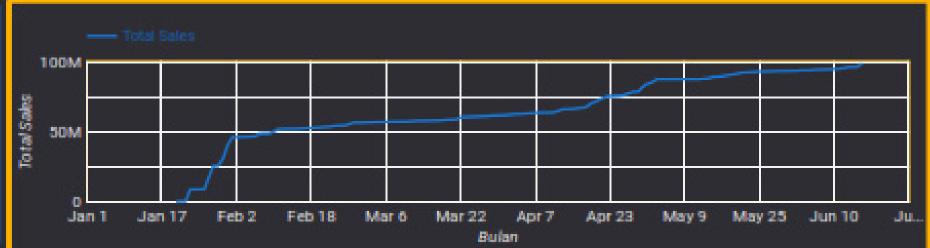




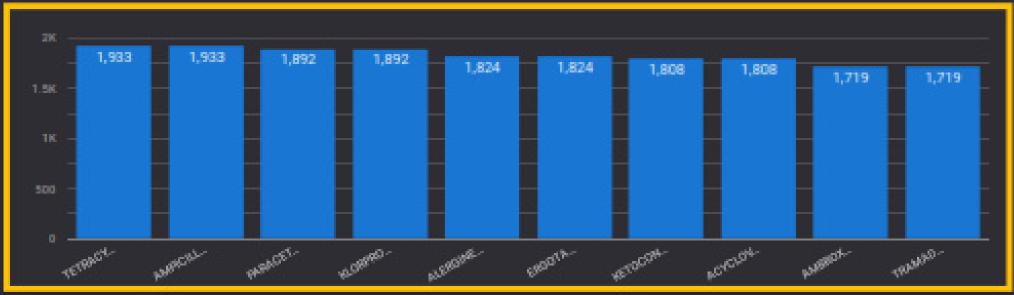
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Total Sales 98,432,930.28









Jumlah Barang	Total Sales
3,502	24,302,909.4
3,148	16,037,802
2,534	11,170,903.7
2,302	9,460,784.34
2,234	11,208,227.8
2,124	11,970,291.44
1,566	8,479,959
922	5,802,052.6
	3,502 3,148 2,534 2,302 2,254 2,124 1,566