

COFFEE SHOP TRANSACTION

Aliriza Hamonangan Matondang

Outline

Data understanding & **01** manipulating

Understanding the dataset with simple query and manipulate the data for preparation

Datamart Preparation

Preparating, summarising, and exporting the dataset with postgresql

Data Visualization

Created data visualization on Tableau & Exploratory Data Analysis

Creating Dashboard & Story

Created Dashboard and Data Story on Tableau & Exploratory Data Analysis

Conclusion & Recommendation

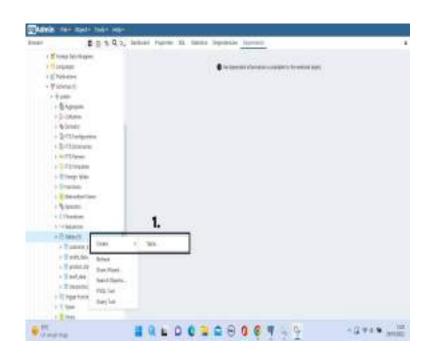
The Conclusion & Recommendation of the Coffee Transaction Analysis

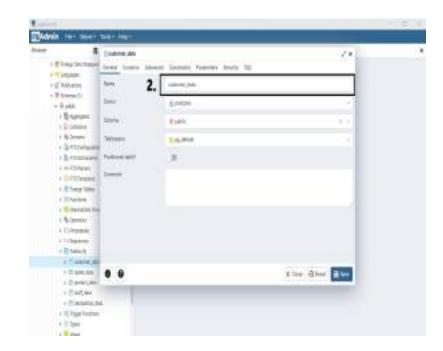
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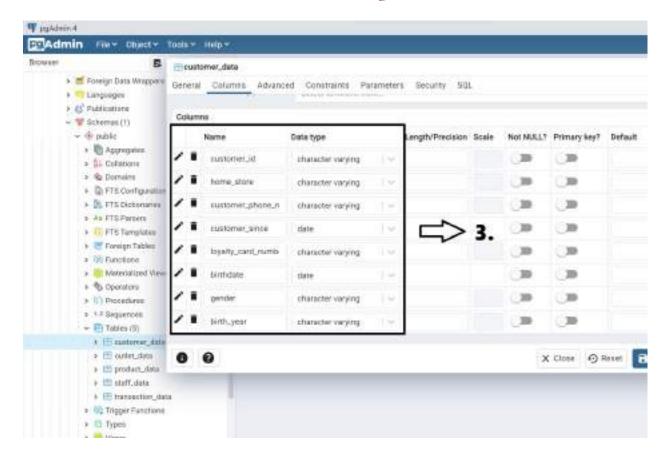
To find the Data Story Dashboard, you can click here

If you want to see only the analysis, you can click here

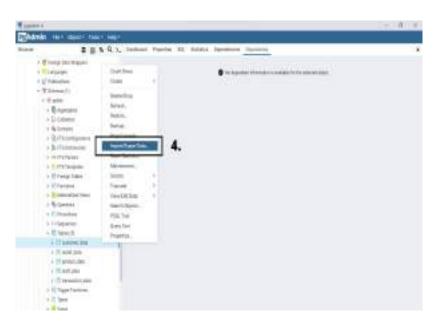


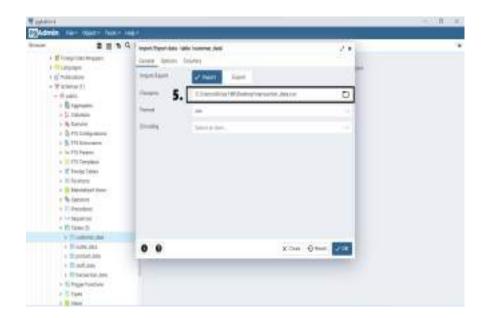






Insert the columns and Data types from the csv file. Ensure the name of the columns and Data types are same





Data manipulation



Data manipulation

```
transaction as (
select d."customer_id".
       EXTRACT(YEAR FROM age (cost(birthdate as date))) as age.
       d."gender",
       age(d."customer_since") as customer_since,
       b."staff_id",
       e "ffrst name",
       e."position",
       c, "store_city",
       b. "order",
       b."transaction date".
       b. "transaction_time",
       a. "product".
       a. "product category".
       a. "new_product_yn",
       b."sales_outlet_id" as outlet.
       b, "quentity",
       a. "current retail price" as unit price
from product date a
left join transaction_data b
on a. "product id" - b. "product id"
left join outlet data c
on c.sales_outlet_id = b.sales_outlet_id
left join customer_data d
on dicustomer_id = bicustomer_id
left join staff data e
on e-staff id = b.staff id
select . from transaction
```

Did join the table with relevant columns for analyze the transaction using ats for make easier to do simple query

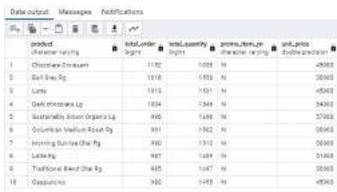
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There are 49.902 transactions from 2.245 Customers at The Coffee Shop in 2019





The top 10 products order of the Coffee Shop

- Chocolate Croissant has the highest order with price Rp45.000,-
- Brazilian Rg has the lowest order from the top ten order with price Rp36.00,-
- 3. The top 10 products order of the Coffee Shop are from 80 products
- 4. If we add promo item, there are 3 products that have promo, specifically:
 - Chocolate Croissant 2 orders,
 - Ginger Scone 232 Orders,
 - Ouro Brasileiro shot 256 Orders

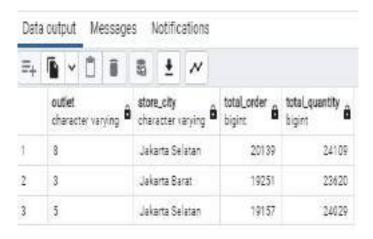
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           b. "quantity".
           a. "current_retail_price" as unit_price
    from product date &
    left join transaction_data b
   on a "product_id" = 0. "product_id"
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           mim("order") as total order.
           sum("oughtity") as total quantity
    WHERE ("order" IS NOT NULL) and ("quantity" IS NOT NULL)
    ORDER BY total order DESC
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7	Fia	avou	rs			22	57	3466
3	Br	ande	ed			21	73	255
9	Pa	cka	ged Cl	nocol		9	66	151

The top order by products category of the Coffee Shop

- Coffee has the highest order with 19.802 orders
- Packaged Chocolate has the lowest order
 - highest order the highest order the main products has the highest order, which is coffee is the superior same as the name of the shop and still relevant with the name of the store

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select #. "costower_fd",
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       sum ("quantity") as total quantity
from transaction
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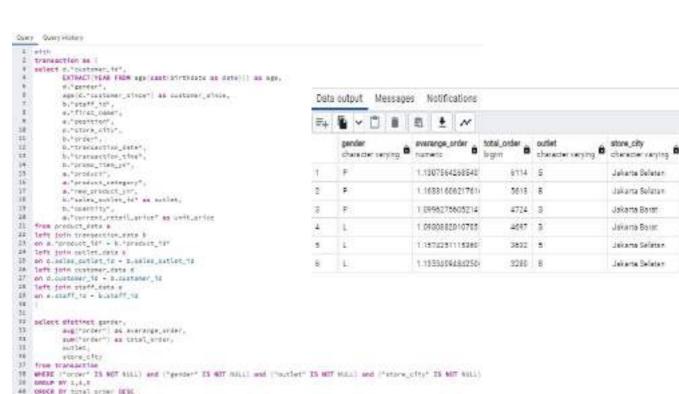


- Store 8 has the highest order in Jakarta Selatan
- 2. Store 5 has the lowest order in Jakarta Selatan. Based on the order, the different order is not really far, which is good because they got so many order in Jakarta Selatan
- 3. The quantity of products at sore 5 needs an improvement based on the order because the different total quantity and total order are still so far

```
Query - Query History
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26 left join customer data d
27 on d.customer to + b.customer to
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29 on e.staff_id = b.staff_id
    select distinct product_category,
           sum ("order") as total progr
    WHERE I order! Is NOT NUCL) and I genoer" IS NOT NUCL)
    GROUP BY 1.0
    ORDER BY product category
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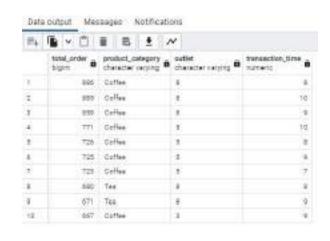
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TT.	Flerours	T.	297
12	Flavours		490
13	Loose Tea	4	391
14.	Loose Tee	P	576
5	Packaged Chocole	L	185
10.	Packaged Chocola	P	238
17	Tes	t	3260
18	Ten	P	1622

- The women have the highest order in every category products
- Needs improvement of the products that attract the men to increase the order
- Create the event or design interior that make the men feel comfort



- 1. The women have dominant order at store 5
- 2. The average order is 1
- 3. The men have lower order than women

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CLAY DURY HISTORY
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    select d. "sustower id",
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38
    select sum("ocner") as tutal_order.
           product category,
           extract HOLD from transaction time; as transaction time
    from transaction
    WHERE ("order" IS NOT MULL) AND ("transaction_time" IS NOT MULL)
    GROUP BY 2,3,4
    CHOCK BY total order SESC
48 15mlt 18
```



- The highest order is in the morning until afternoon
- Everyone needs coffee in the morning in every store

```
Query Query History
    transaction as
    select d. "customer_id",
           ENTRACTIVEAR FROM ogo | cast | birthdote as date | | | as ago,
           age(d. "customer_since") as customer_since,
           b. staff_id",
           e. "ffrat_name".
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           a. "new_product_yn",
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           a, "current_retail_price" sa smit_price
    from product data a
    Teft join transaction data b
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    WHERE ("age" ES WET HULL) AND ("customer_since" IS WET HULL) AND ("genter" IS WET HULL)
36 GROUP BY 3
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- The average age of the customers between 42
 46 years old
- 2. The customers are loyal with the average age of has been becoming customers 4 years

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           b. "sales outlet id" as outlet.
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- The different total price between women and is men so high
- Even for the men product, which is coffee, the total price has spent by the men is still lower than women



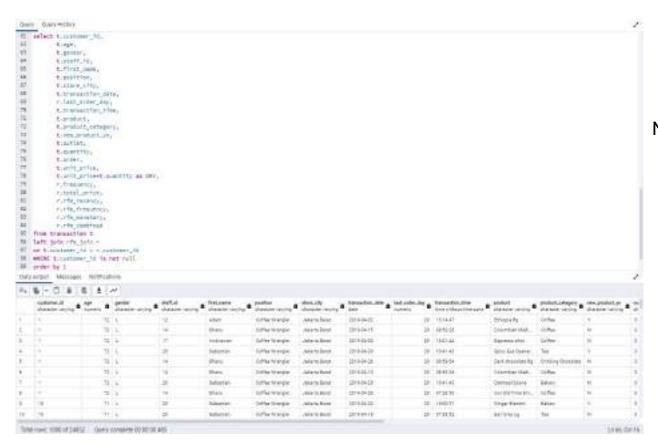
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   from product date &
   left join transaction data b
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   left foim customer_data d
   on e-custamer_id = b-cystamer_id
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28 on e. staff to = b. staff to
```

```
tim as (
       select DISTINCT customer 1d.
      extract(day from max(transaction_date)) as last_order_day,
       count("order") as frequency.
       SUM product price + quantity) as total price
from transaction
WHERE ("customer_to" IS NOT NULL)
AND (product price I= 0)
order by total price DESC
rin final as
        select customer_id.
        last_order_day,
        frequency.
        total_price.
        NTILE(A) OVER (ORDER BY last_order_day) AS rfm_recency,
        NTILE(4) OVER (ORDER BY frequency) A5 rfm_frequency.
        NTILE(4) OVER (ORDER BY total_price) AS rfm_monetary
```

- Joined to the relevant columns from all tables with ats
- Created the second ats and new columns are last_order_day, frequency, and total price to do RFM **Analysis for Customer** Segmentation
- Created the third as final dataset to do RFM **Analysis for Customer** Segmentation
- 4. Divided the new columns into 4 groups for each dimensions (R, F and M)

- Created new column which is rfm_combined
- 2. Created the fourth ats for joining to others columns



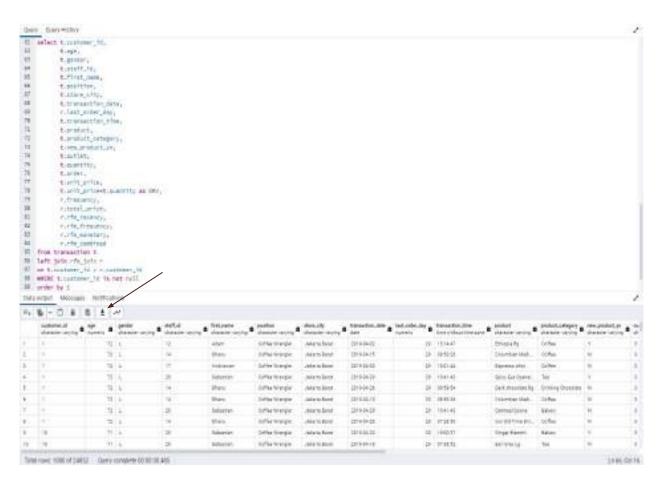


- Selected relevant columns to analyze the dataset
- Downloaded the dataset as csv

Note:

- We didn't create
 Segmentation or loyalty
 member here, because we
 need to understand the
 best group for this
 dataset
- 2. We would do create
 Segmentation or loyalty
 member on tableau
 because it is easier to see
 the median, or mean
 values with data
 visualization

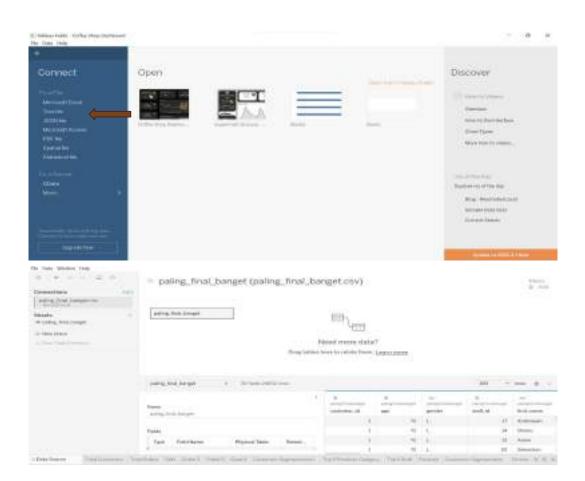
Export The dataset as CSV



- After the dataset was ready, clicked download icon
- 2. Then, saved the dataset







- Added the dataset that have prepared from Postgresql by clicking Microsoft Excel
- Then, we would go to Data Source for editing the dataset on Data Source such as Split, Join, Change the data type, etc

Note: this visualization for create Dashboard so, the visualization fit with the template of the Dashboard



- 1. Total Customers of dataset are 2.245
- 2. By dragging the feature Customer id to Text and set to Count Distinct





- The total GMV of the dataset is Rp1.376B (GMV = Sales Price x Quantity)
- 2. By dragging the feature GMV to Text





- 1. Total Orders of dataset are 28.060
- 2. By dragging the feature order to Text



Outlet 3 Outlet 5

Outlet 8

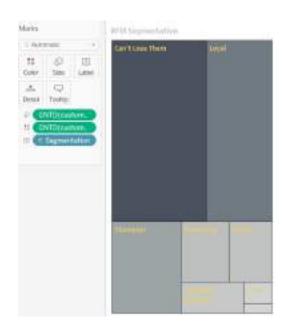
Rp464M

Rp430M

Rp430M



- 1. The different of total GMV on every outlet is not really different, these indicated that every outlet has the same SOP
- By dragging the feature GMV to Text and dragging the feature GMV to Filters

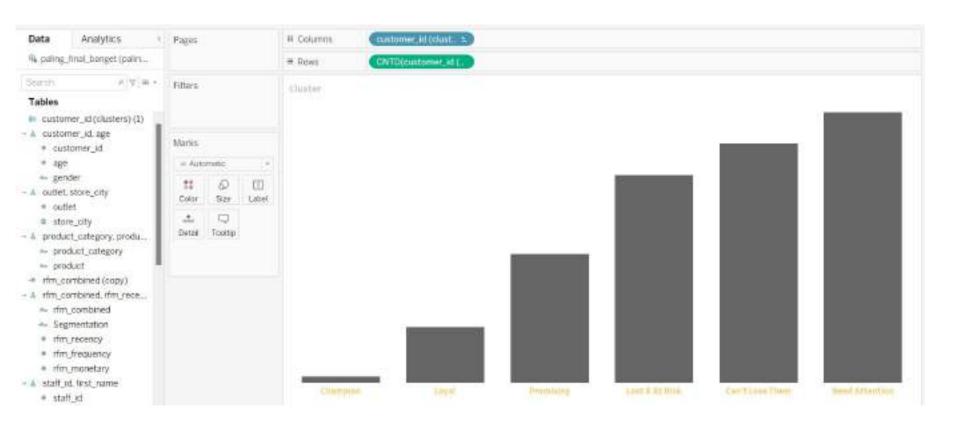




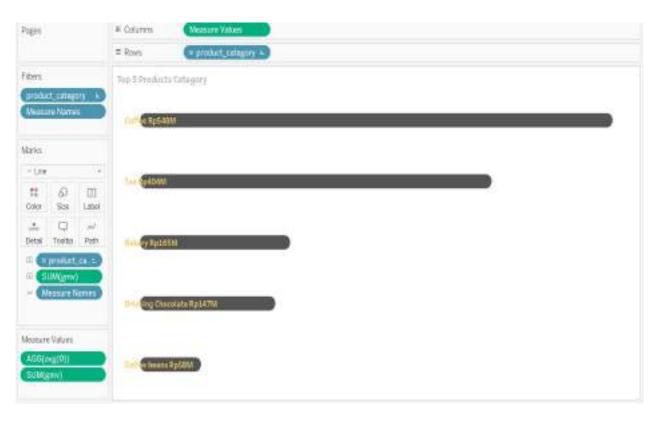


- 1. RFM Segmentation vs Cluster
- The Cluster divided into 6 Clusters and The RFM Segmentation divided into 8 Segments
- 3. The result of cluster based on K-Means is so good, but I prefer to choose RFM Segmentation, because the groups are more segmented based on rank of the GMV, Frequency, and Recency than Cluster.

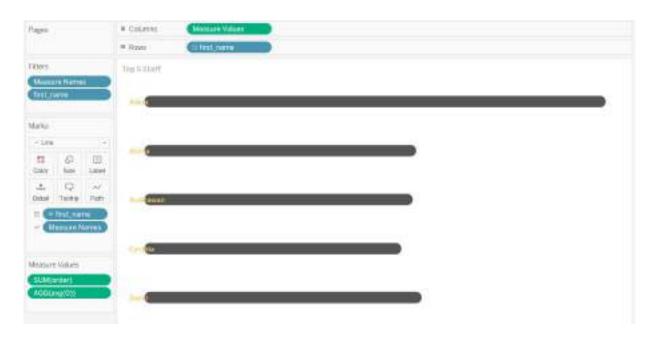




The details of Cluster



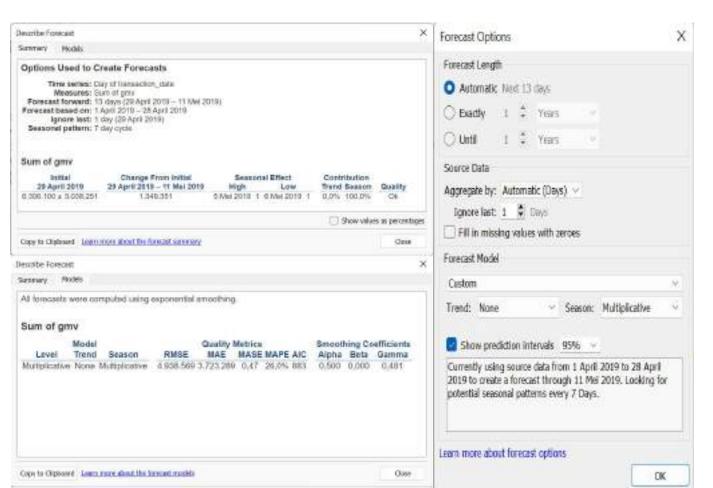
- 1. The Top 5 Products Category by GMV
- 2. Coffee & Tea are the best Products Category
- 3. To create the visualization, we created the zero axis to separate the GMV with zero axis, so for each bar is started from zero
- 4. Then we have changed the bar to line in bigger form



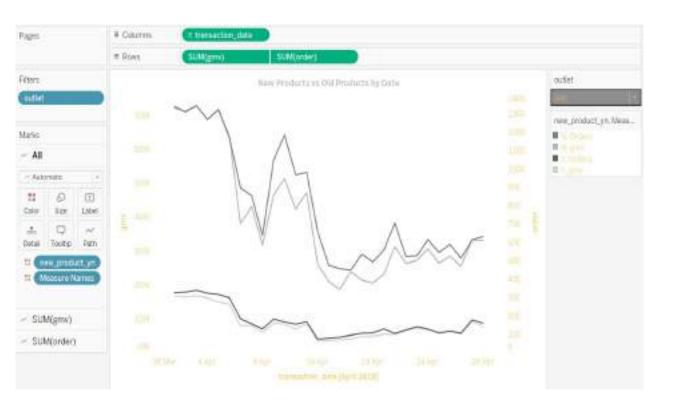
- 1. The Top 5 Staffs by GMV
- 2. Adam is the best employee on this dataset, because he works at all outlet, which are Outlet 3,5 and 8
- To create the visualization, we created the zero axis to separate the GMV with zero axis, so the first number of bar are zero
- Then we have changed the bar to line in bigger form



- 1. The forecast of the GMV for next 13 days
- 2. Based on the forecast GMV, The Coffee Shop needs to interrupt the drop of GMV
- 3. The Coffee Shop could use the Segmentation of the Customers to create marketing products to increase the GMV



- The Details of the forecast
- The forecast is quite good based on the model evaluations and summary
- 3. The MAPE value of 26% means that the difference between the average forecast value and the actual value is 26%



- The old products have downward trend, and the new products seem steady, and tend to downward trend.
- Slightly different between order and GMV means, the new products indicate their fair price
- The old products price is not quite fair so they got so many orders, but received low GMV
- 4. Overall of the new products performance is quite good for a month based on the trend



- The top and bottom 7 new and old products
- Based on the visualization, 11 new products can compete with old products
- 3. This is indicated that we can remove the bottom products and change with the top 11 new products to streamline operational costs
- 4. However, we need deeply analyze because the data provided is only a month.





Note

These Dashboard use Filter on Outlet and Icon on the Title. You can click the Icon and the notification "Go to Outlet Details", on Outlet.









- 1. First, create template on Figma
- Second, upload the template to Tableau
- Make sure the size of the template fit with the Dashboard
- 4. We created 3
 Dashboards on this dataset



- The overall performance of Outlet 3 is good, because there is slightly different among GMV in every outlet
- The Outlet 3 has so many Customers & Orders
- The Outlet 3, based on the Forecast needs to interrupt the drop or stable on low of GMV
- 4. The Outlet 3 needs to do marketing strategic based on the segmentation
- 5. The outlet 3 can focus on the customers on the Segmentation Can't Lose Them, At Risk, and Customer Needing Attention to increase the GMV



- The overall performance of Outlet 5 is good, because there is slightly different among GMV in every outlet
- The Outlet 5 is the best Outlet on the Coffee Shop
- The Outlet 5 can focus on Promising Customers to increase the GMV and find the new customers



- The overall performance of Outlet 3 is good, because there is slightly different among GMV in every outlet
- 2. The Outlet 8 is the worst Outlet on the Coffee Shop based on the GMV, Total Customers, and Total Orders
- 3. The Outlet 8 has so many Loyal and Champion Customers, which means the customers feel comfort with Outlet 8
- 4. The outlet 8 can focus on Can't Lose Them Segmentation and find new customers to increase the GMV and Orders

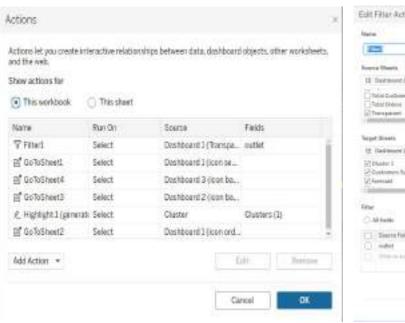


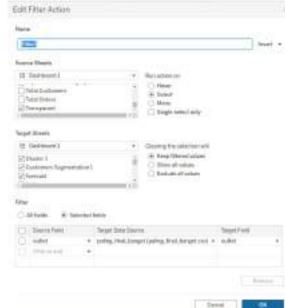
- The details of RFM Segmentation
- 2. I prefer to choose RFM
 Segmentation because
 the groups are more
 segmented based on rank
 of the GMV, Frequency,
 and Recency than Cluster
- Female spent more than Male
- 4. More female than male Customers
- 5. The avg of the age is > 40 years old
- 6. If the Coffee Shop wants to get the new customers, it is better to get the young generation customers, because the Coffee Shop dominated by old generation customers



- The details of New and Old Products
- 2. As we said before, this visualization indicates that we have to replace the bottom products with the top new products for make more efficient of operational costs, however we need deeply analyze because the data only provided a month
- You can filter the dashboard with the outlet and the segmentation to make sure the best products for every outlet and segmentation

(Orde	Details				
custom	age	gender	Sogme	outlet	store	produc	product	unit_price	Orders	quantity	gmv
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			ustomer		Barat	Coffee	Columb.	48.000	2	4	e e
			5				Espres	36.000	1	1.	- 2
							Ethiopi	36.000	1	1	- 4
							Our Of.	30.000	1	1	48
						Drinkin	Dark ch.	42.000	1	1	4
						Tea	Spicy E.,	37,200	1	2	1
2	3.5	Ł	Can't	3	Jakarta	Bakery	Cranbe	39,000	1	1	3.5
			Lose		Barat		Croissa	39,000	1	1	33
			Them				Hazeln	42.000	1	1	- 4
						Branded	I Need	144.000	9	1	14
						Coffee	Brazill	42,000	1	1.	(4)
							Brazill	36,000	1	1	5
							Cappuc	51.000	1	1	
							Columb.	48.000	2	2	6
							Latte Rg	51.000	1	2	10
							Our OL.	24.000	1	2	4
						Drinkin,	Dark ch.	42.000	1	2	8
						Tea	Earl Gr	36.000	1	2	130
							English	108,000	3	4	14
							Serenit	36.000	1	2	10
							Serenit.	60.000	2	2	€
							Spicy E.	61.200	2	2	€
3	72	L	Can't	3	Jakarta	Bakery	Chocol	45.000	1	1	- 4
			Lose		Barat		Cranbe	39.000	1	1	- 1
			Them				Croissa	78.000	2	2	3
			-200400000				Gimone	78.000	2	9	10



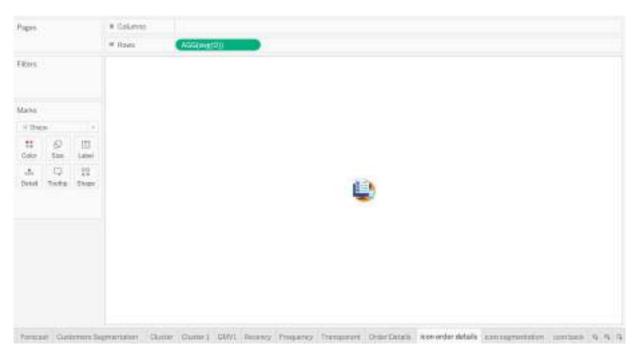


- We used Actions as filter and shortcut on these Dashboard to filter by outlet and go to others dashboard
- So you can click the description on the outlet and you can click icon on title to go to others dashboard









- To create an icon you can add the icon on Shape
- 2. Create the zero axis
- 3. Fill the tooltip



- The function of the transparent is the device to click on the Outlet filter
- Drag the outlet to rows, remove everything's and make it white, then you can fill the tooltip

Data Story



Main Dashboard



- The Main Dashboard is the analysis result of the Coffee Shop Transaction
- You can click the outlet to filter the Dashboard

RFM Segmentation





- The RFM
 Segmentation
 divided into 8
 Segments
- 2. I prefer to choose
 RFM Segmentation,
 because the groups
 are more
 segmented based
 on rank of the GMV,
 Frequency, and
 Recency than
 Cluster
- 3. The Coffee Shop needs to improve the recent customer and Can't Lose Them Segment depend on the Characteristic of the Segment

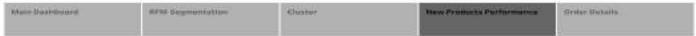
Cluster

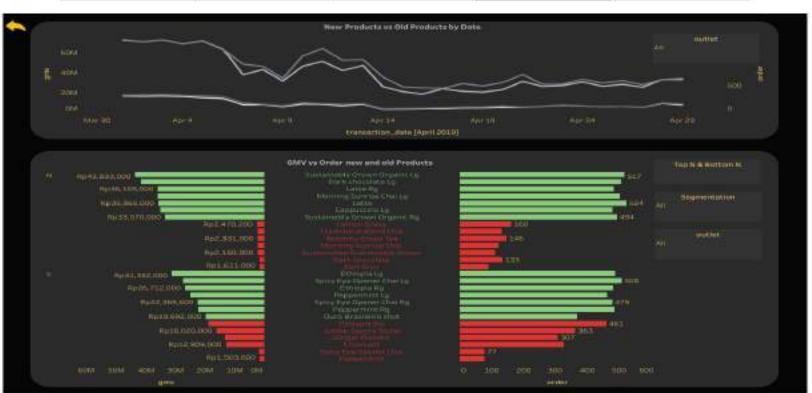




- The Cluster divided into 6 Clusters dan The RFM Segmentation divided into 8 Segments
- 2. The cluster based on K-Means, the result of the cluster is so good
- 3. Based on the
 Cluster Need
 Attention & Can't
 Lose Them Cluster
 are really dominant
- The result o the Cluster is quite similar with RFM Segmentation

New Products Performance





Order Details

Coffee Shop Transaction Dashboard

Name Depths and Depths

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							Coffee	Ministration Ses	25,400	1	1.	25-1
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Conclusion & Recommendation



Conclusion:

- 1. Overall of The Coffee Shop Transaction is so good, the GMV is so high for a month
- 2. The different GMV between every Outlet not really high which means, the SOP of each Outlet are same
- 3. The Coffee Shop needs do improvement for all Outlet to giant the GMV
- 4. It's better to choose RFM Segmentation because the groups are more segmented based on rank of the GMV, Frequency, and Recency than Cluster
- 5. The Outlet 3 needs to focus on At Risk & Can't Lose Them Segment
- 6. The Outlet 5 needs to focus on Promising Segment and Service
- The Outlet 8 needs to increase the new customer's, and focus on Recent Customers and Can't Lose Them Segment
- 8. The Coffee Shop needs to compline the data longer for analyze the products performance, to streamline operational costs

Conclusion & Recommendation

Recommendation:

- . Outlet 3:
 - At Risk is the customers who rarely shop and come.
 - Can't Lose Them is the customers who rarely come but once they come, they do big order and spent much
 money.
 - We need to create good service for them, so they feel comfortable to come (provided wifi, music, the menu which they really love, etc).
 - Create discount promo for who haven't had transaction for a long time for calling them to come
 - Create the event that relate to At Risk & Can't Lose Them Segment.
 The management should focus on outlet 3 because the forecasting result of the GMV is so low and stagnant
 - The management should do the intervention of the forecast result.
 - Outlet 5:
 - The Outlet 5 is the best outlet of the Coffee Shop.
 Promising Segment is the customers who frequently come and the frequent of order and spent much money.
 - Co the heat was for this Comment is the prime comition
 - So the best way for this Segment is the prime service.
 - We need to make them feel comfortable (provided wifi, music, the menu which they really love for gift, booking place or menu, and membership).
 Outlet 8:
- The Outlet 8 is the lowest GMV and Orders.
 - The Outlet 8 needs to find more new customers.
 - Descrit Occations and its the arrangement are
 - Recent Customers is the new customers.
 - o For the Can't Lose Them segment, they can use the same recommendation with Outlet 3.
 - For the new customers, Outlet 8 can create discount promo referral code for the new customers by utilizing the Loyal and Champion Customers because the Outlet 8 has so many Loyal and Champion Customers.
 - The Outlet 8 should be careful to create decision because the MAPE value is quite high but still fine.



THANK YOU