

Profile

Professional

- Marketing Data Analyst Manager B2B Company (2021 Present)
- Founder Cultigo (2021 Present)
- Senior Data Analyst Kompas (2021)
- Data Scientist Rukita (2020 2021)
- Research Assistant Analyst Ensterna (2017 2019)

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- M https://dataimpact.medium.com/
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Ari Sulistiyo Prabowo

What will you get today?

Fundamental of Data Visualization



Power BI and its Features



- Power BI Interface
- Power BI Connection
- Power Query Editor
- Data Modelling in Power Bl
- Case in Power BI
 - Citi Bike NYC Information in Power BI









Fundamental of Data Visualization







 The way you figure out and understand the data that might be the interesting to highlight

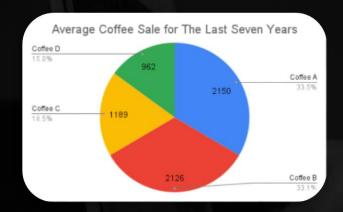


Explanatory

 You have found the interesting part and ready to communicate with the story

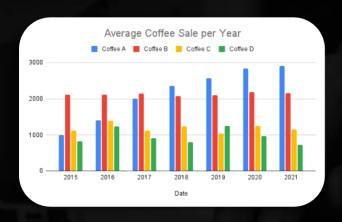


Data Exploratory



You have found that Coffee A and Coffee B have a good performance of sale

An interesting part, the coffee A sale increase linearly







Data Explanatory



How to communicate your findings in the explanatory part?



1. Who is your audience?

Your audience has specific background (marketing, operational, sales). Narrowing your audience can make you resonate with what you want to share to them

2. What do you need your audience should know?

By narrowing your audience, you can share your findings more comfortable that the information are truly needed

3. How the data help the audiences on their problems?

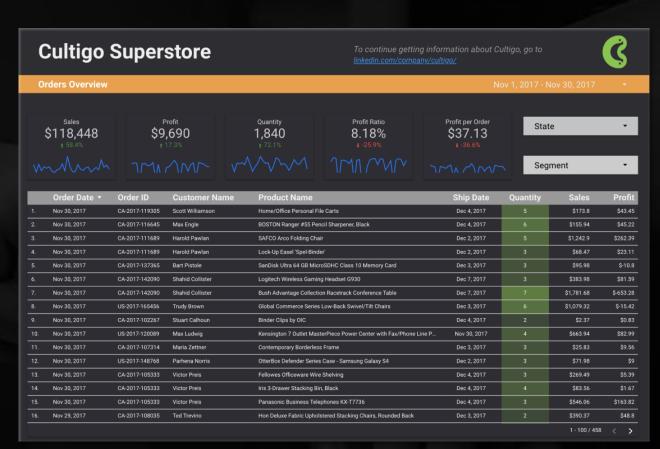
At this part, your data is the evidence to support the audience to do the next for the strategy in their division

Further sources: A Starter of Chart Suggestion





Dashboard is designed to share the entire information and intended to be viewed together



Example of Dashboard

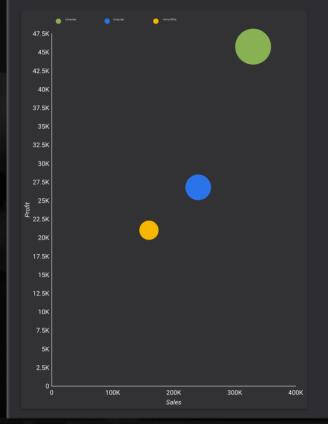


Report contains much more detail information and is usually used periodically



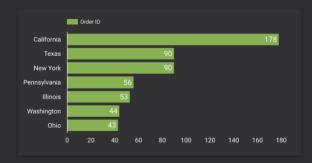
2018 Sales & Profit in Cultigo Superstore

Segment consumers are performed well due to the new product launched and have a positive feedback from customer



Top 7 States in the Consumer segment

California has a winning campaign called "Black and White" that boost the sales of Cultigo's product



Top 10 Products in California in the Consumer segment

Most of the products with the high profit is in Office Supplies and it is dominated around 63% of total profit

	Product Name	Category	Pro	fit 🕶
1.	GBC DocuBind 200 Manual Binding Machine	Office Supplies		\$884
	GBC ProClick 150 Presentation Binding System	Office Supplies		\$683
	Razer Tiamat Over Ear 7.1 Surround Sound PC Gaming	Technology		\$602
	Acco 7-Outlet Masterpiece Power Center, Wihtout Fax/	Office Supplies		\$584
	Imation Bio 2GB USB Flash Drive Imation Corp	Technology		\$441
	Sharp AL-1530CS Digital Copier	Technology		\$435
	3.6 Cubic Foot Counter Height Office Refrigerator	Office Supplies		\$412
	GBC DocuBind TL200 Manual Binding Machine	Office Supplies		\$302
	Howard Miller 11-1/2* Diameter Brentwood Wall Clock	Furniture		\$254
	Adjustable Depth Letter/Legal Cart	Office Supplies		
		1 - 10 / 301		>

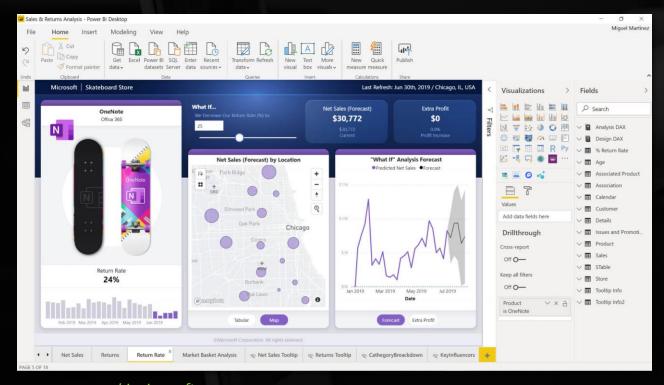
Example of Report



Power BI

Power BI is an interactive business intelligence tools to find an insight and communicate the

findings to the audience



source: powerbi.microsoft.com

#dataanalyticscultigo

Power BI & Its Feature





Understanding the type of data sources that can connect to Power BI

Step by step on how to connect Google Sheet to Power BI

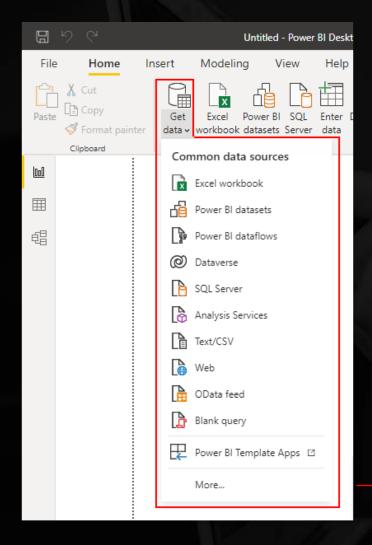
Data Modelling

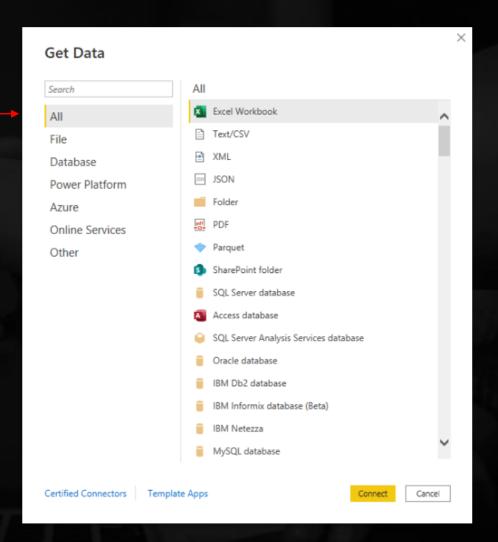


Understanding data modelling in Power BI



Type of Data Sources





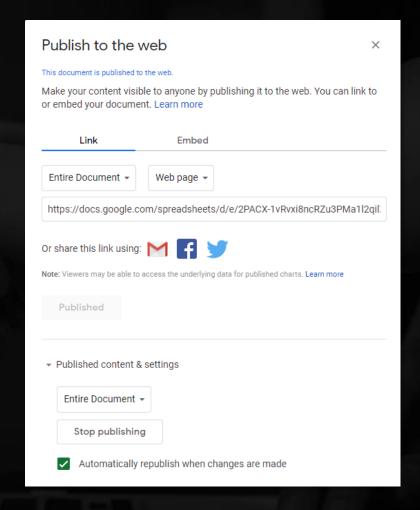


Connect to Google Sheet

How to connect google sheet to <u>Power BI?</u>

In the google sheet

- share the documents to everyone as view
- click file --> share --> Publish to Web
- choose entire documents and webpage
- copy the link

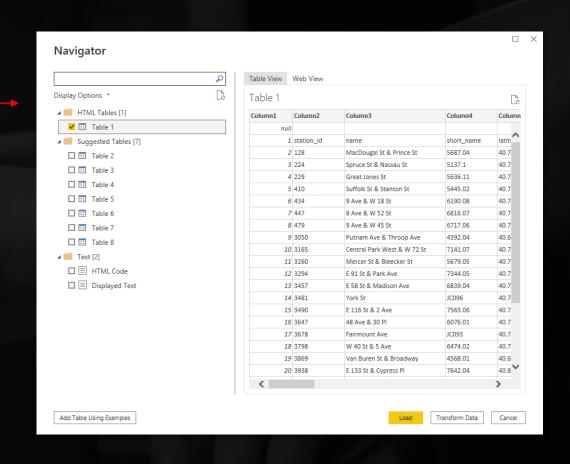


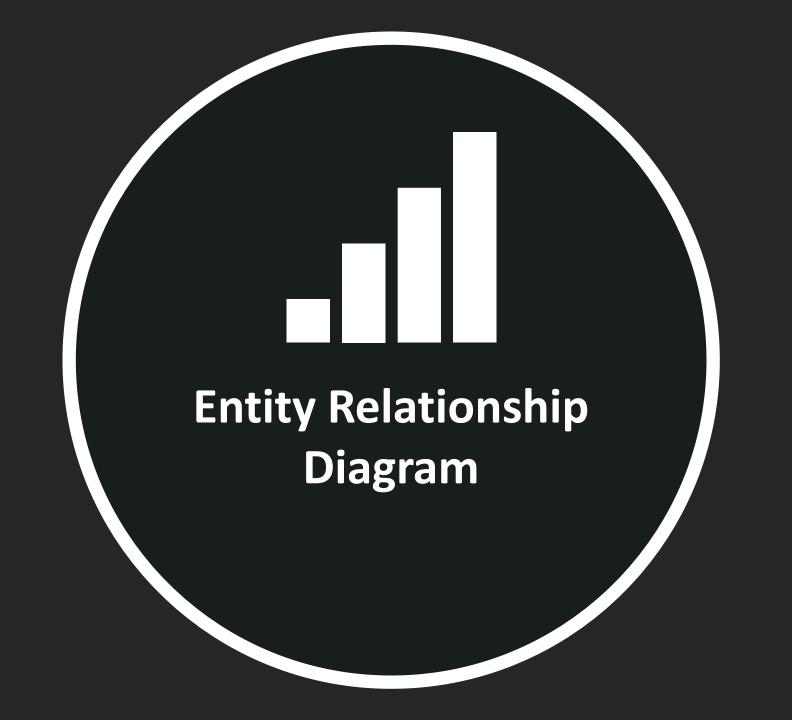
Connect to Google Sheet

In the Power BI

- Get data --> Web
- Paste the link in the URL box
- Choose the table that contains all columns
- Transform Data



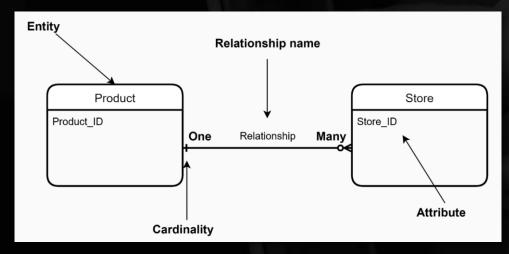




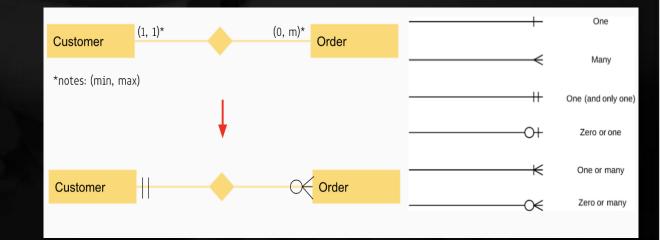
Entity Relationship Diagram

C

represents a crow's foot at the connector's end on how many instances of **one**entity relate to one instance in one entity



Further information: <u>dataimpact.medium.com</u>







Case in Power BI

Assuming, you are a consultant to work with electric bike in the downtown.

They need you:

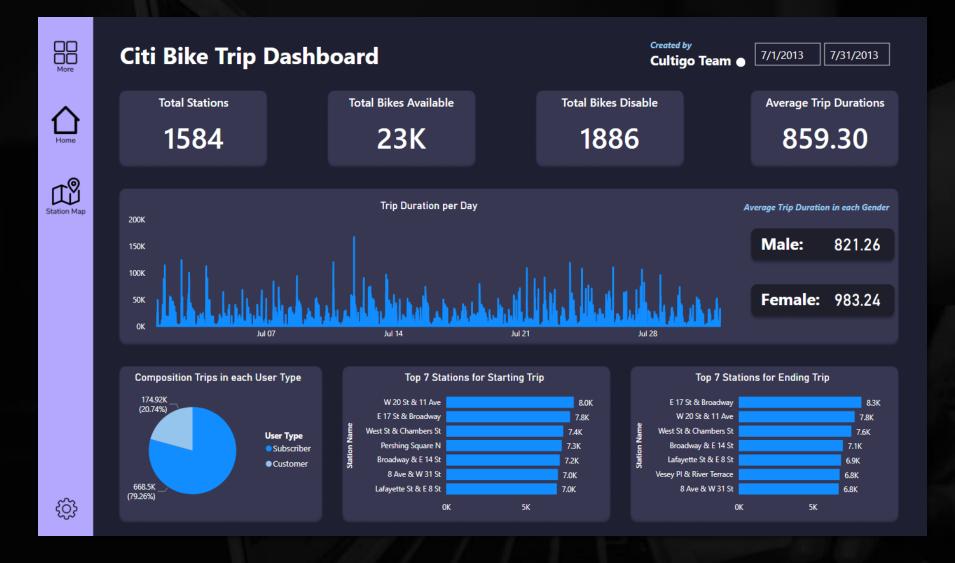
- Provide the overall data (total stations, bike availability, and trip durations)
- Provide top stations by the trips
 Which user mostly use
- How is the current situation of user use the bike from starting station to ending station



Dataset : <u>Citibike NYC</u>



Dashboard in Power BI





Dashboard in Power BI



