### **DATA ANALYTICS ASSIGNMENT - 01**

#### DATA ANALYTICS WITH IBM COGNOS ANALYTICS

**DATE: 08 - 09 - 2023** 

**SOFTWARE USED: IBM COGNOS ANALYTICS** 

#### **SUBMITTED BY:**

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**BRANCH: ECE WITH CSE MINOR** 

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**CAMPUS: VIT - AP UNIVERSITY** 

#### **SUBMITTED TO:**

**INDRA SIR (SMARTINTERNZ)** 

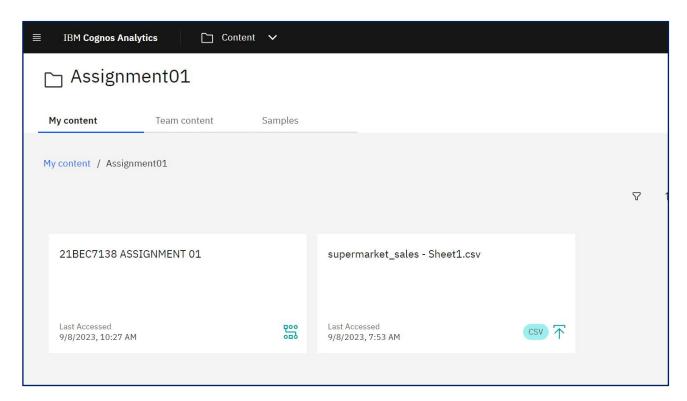


### ❖ Objective:

Upload the dataset to Cognos Analytics, delete the unnecessary columns, create a data module, explore and visualize the dataset.

#### > Uploading dataset to IBM cognos analytics:

Given dataset: [ supermarket\_sales - Sheet1 ]



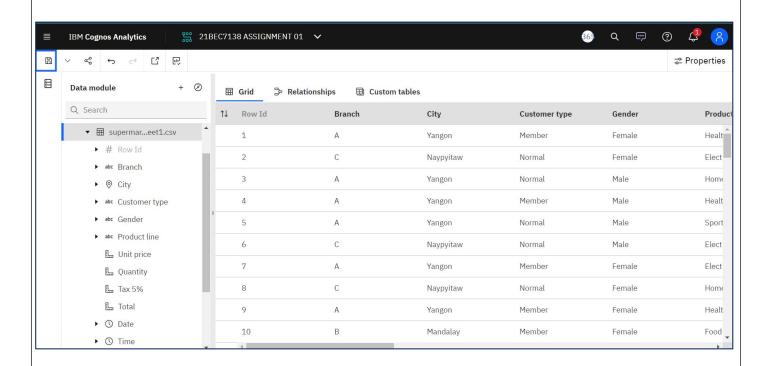
#### > Deleting unnecessary columns:

As Invoice ID column is not required, deleting that column.

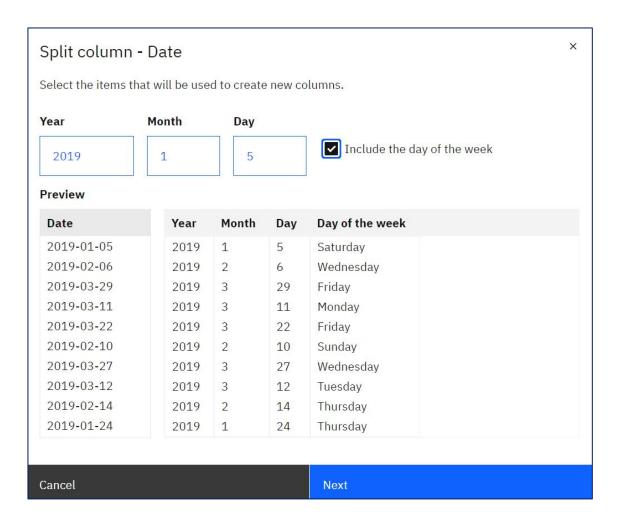
1↓	Row Id	Invoice ID	Branch	City
	1	750-67-8428	Α	Yangon
	2	226-31-3081	С	Naypyitaw
	3	631-41-3108	А	Yangon
	4	123-19-1176	А	Yangon
	5	373-73-7910	А	Yangon
	6	699-14-3026	С	Naypyitaw
	7	355-53-5943	А	Yangon
	8	315-22-5665	С	Naypyitaw
	9	665-32-9167	А	Yangon
	10	692-92-5582	В	Mandalav

↑↓	Row Id	Branch	City	Customer type
	1	А	Yangon	Member
	2	С	Naypyitaw	Normal
	3	А	Yangon	Normal
	4	А	Yangon	Member
	5	А	Yangon	Normal
	6	С	Naypyitaw	Normal
	7	А	Yangon	Member
	8	С	Naypyitaw	Normal
	9	А	Yangon	Member
	10	В	Mandalay	Member

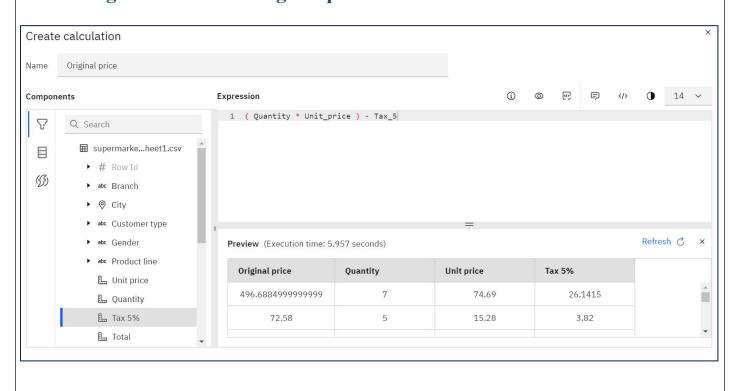
## > Creating data module:



#### > Splitting date column:



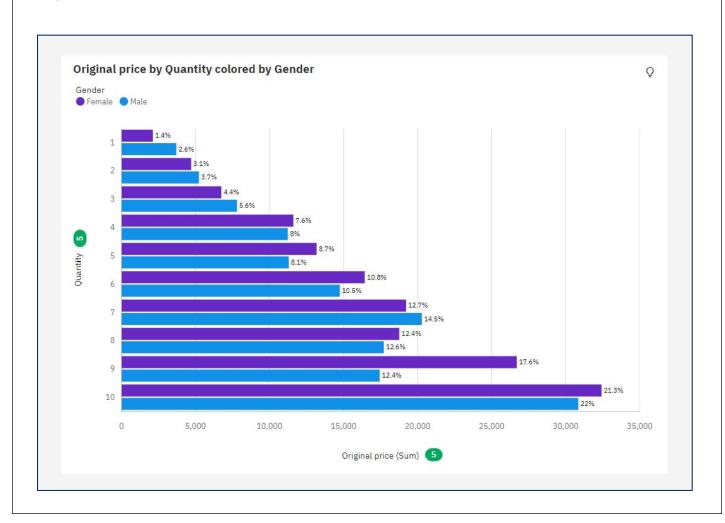
### > Adding new column 'Original price':

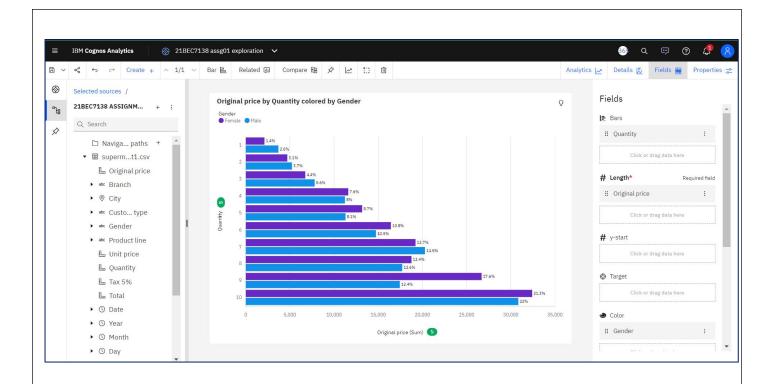


⊞ Grid ⇒ Relationships ⊞ Custom tables								
<b>†</b>	Original price	Row Id	Branch	City	Customer type			
	496.6884999999999	1	А	Yangon	Member			
	72.58	2	С	Naypyitaw	Normal			
	308.0945	3	А	Yangon	Normal			
	442.472	4	Α	Yangon	Member			
	573.9615000000001	5	Α	Yangon	Normal			
	567.8435000000001	6	С	Naypyitaw	Normal			
	392.38800000000003	7	A	Yangon	Member			
	698.82	8	С	Naypyitaw	Normal			
	68.8939999999999	9	А	Yangon	Member			

# > Exploring and visualizing the dataset:

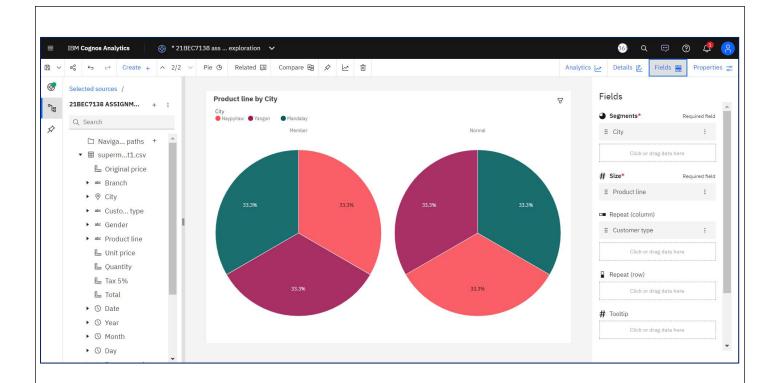
# > 1) Bar Plot:



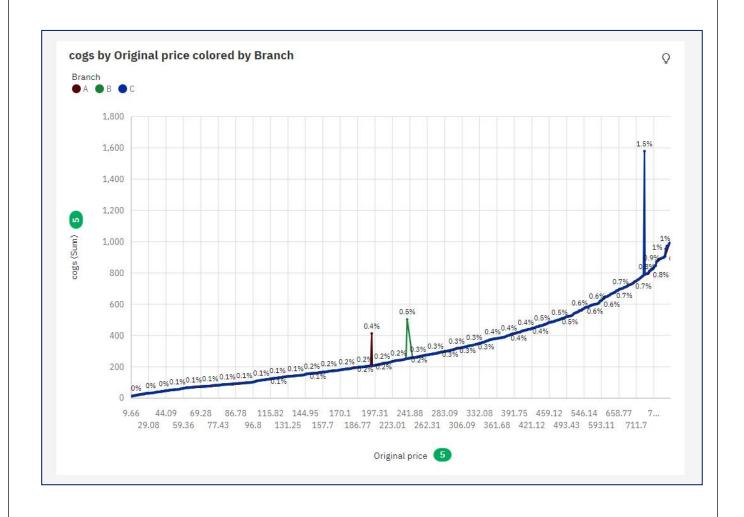


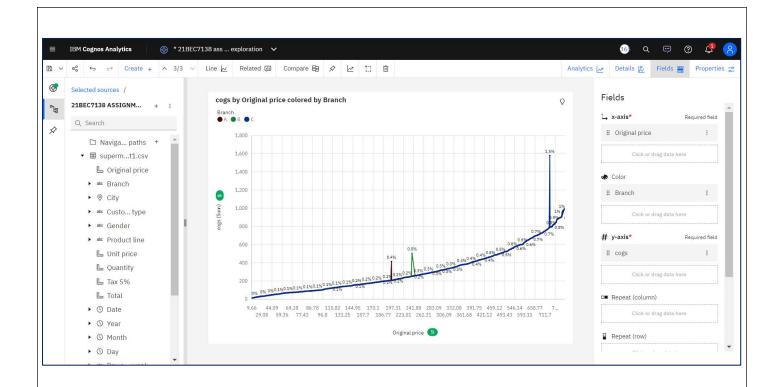
## ➤ 2) Bar Plot:



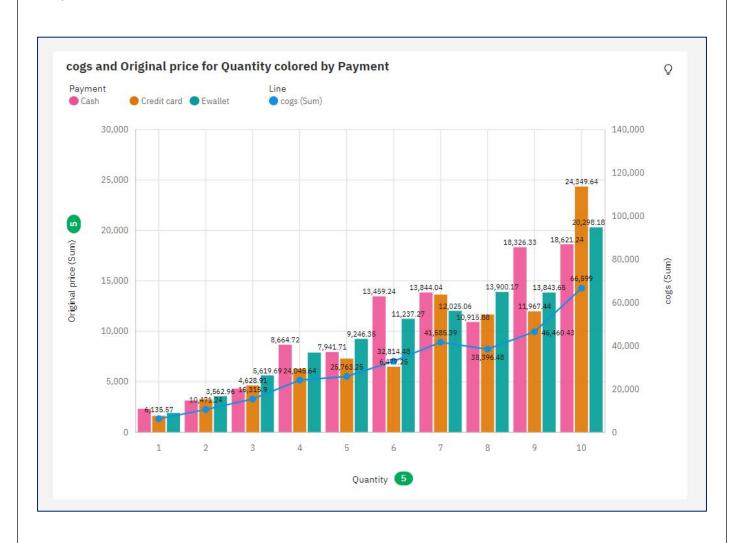


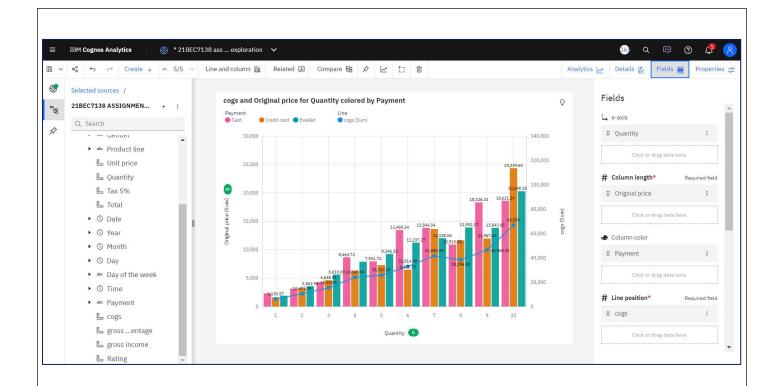
### > 3) Line chart:



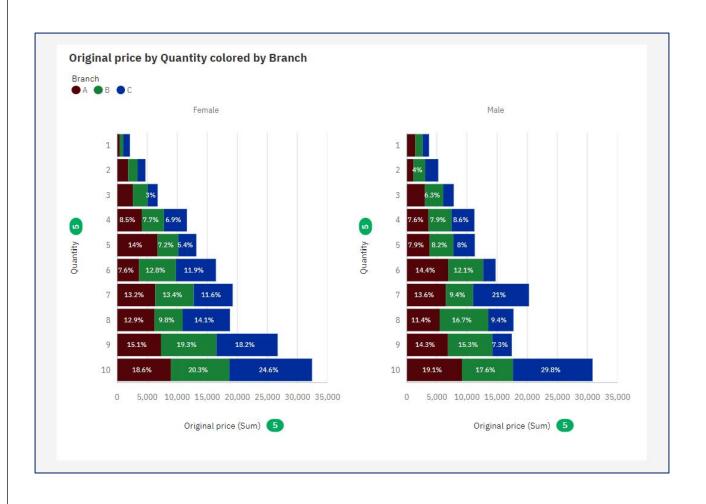


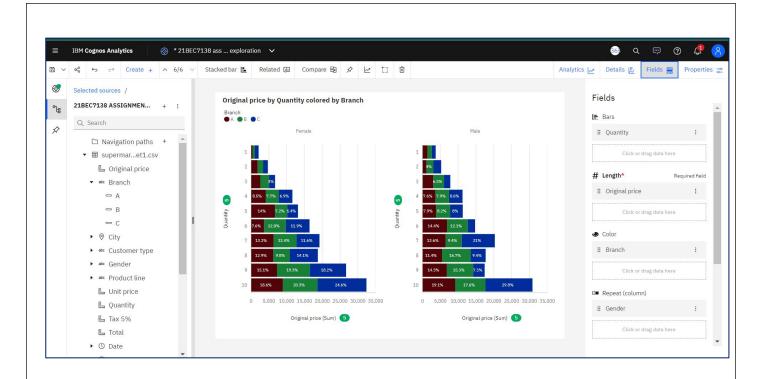
### > 4) Line and Column chart:



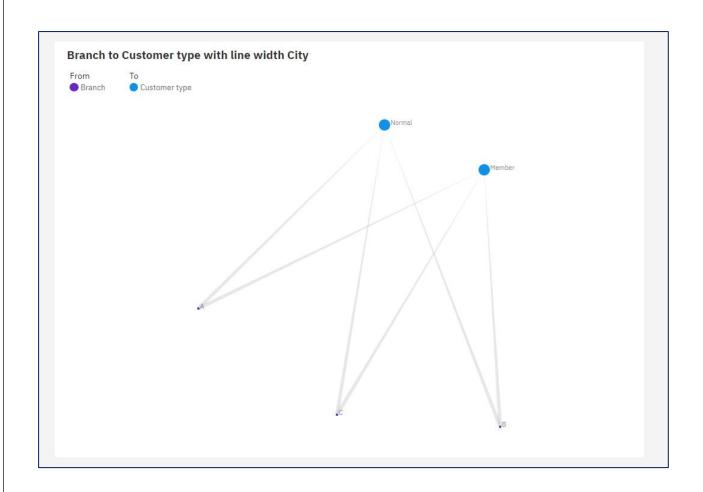


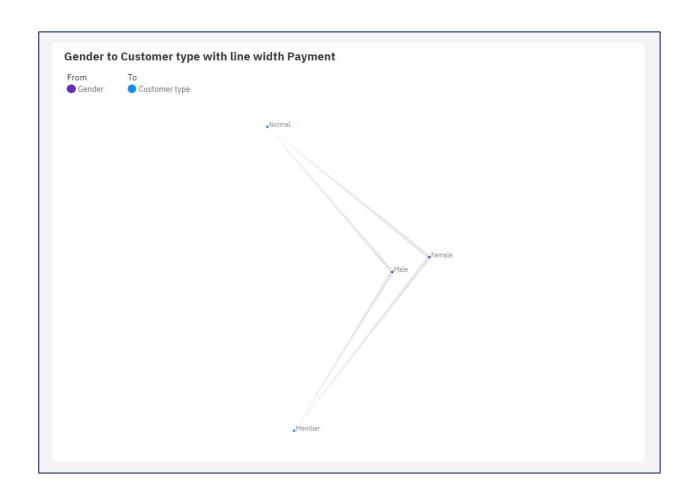
### > 5) Stacked bar chart:

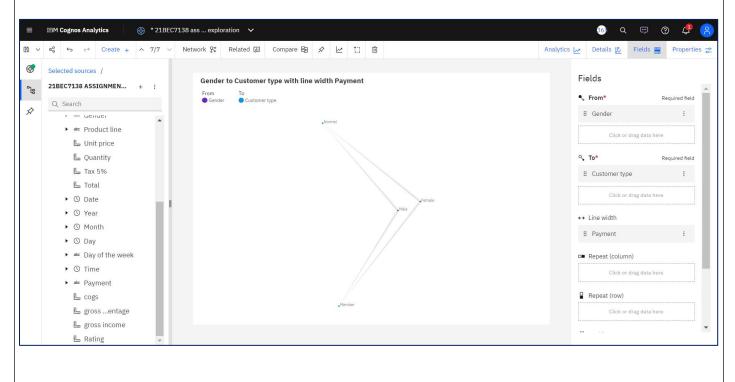




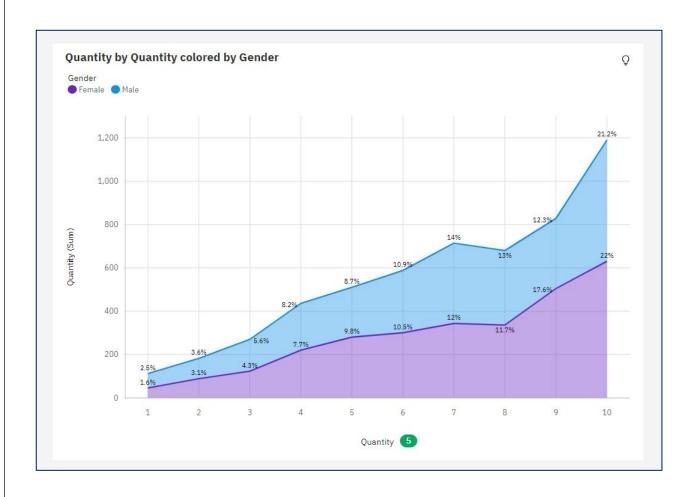
# > 6) Networking graph:

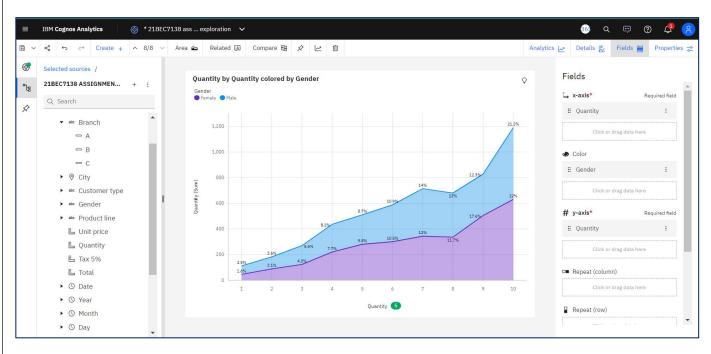




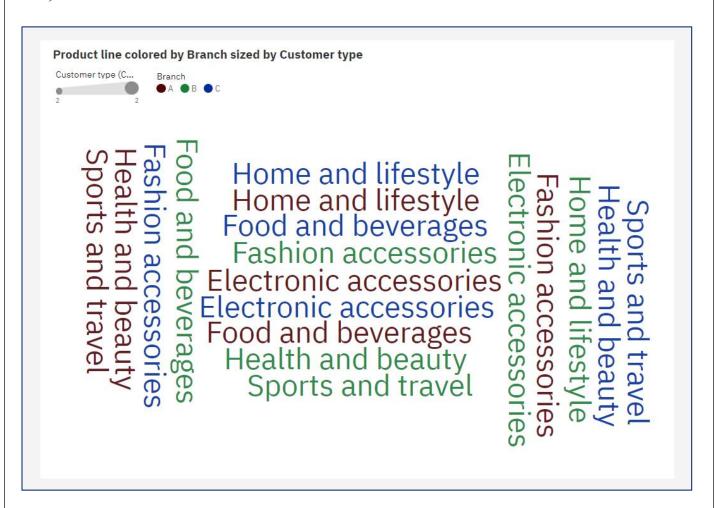


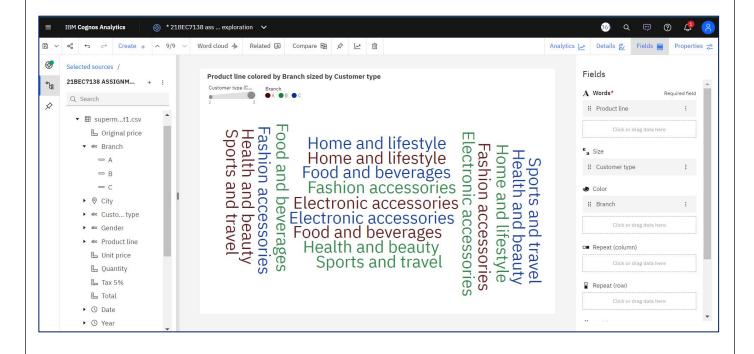
## > 7) Area plot:



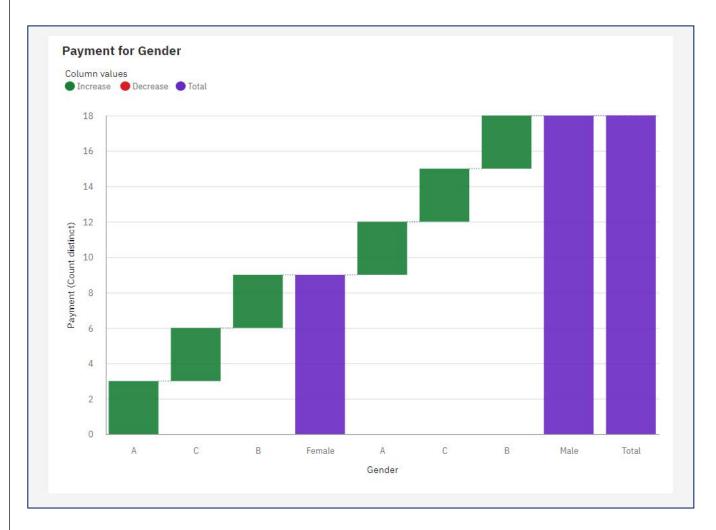


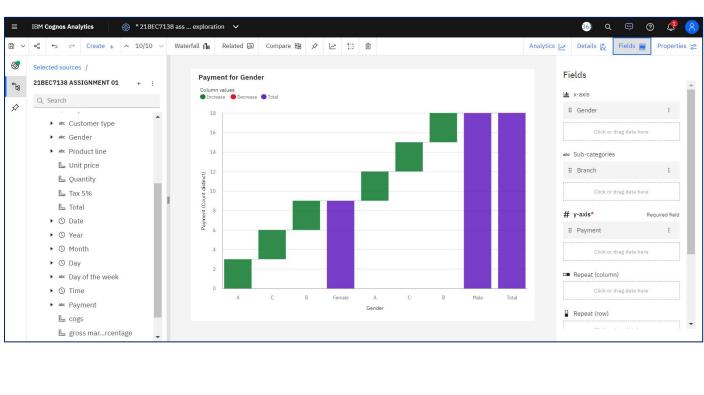
#### > 8) Word cloud:



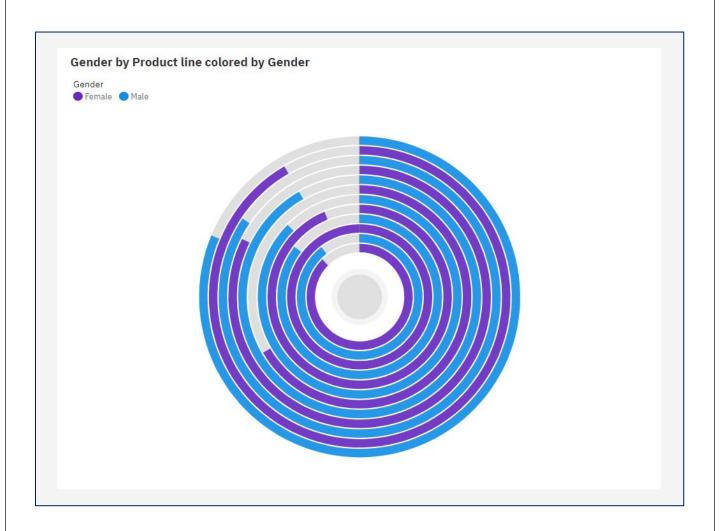


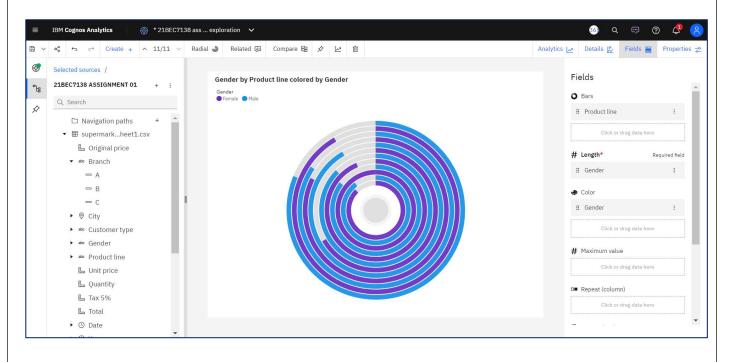
## > 9) Water fall:



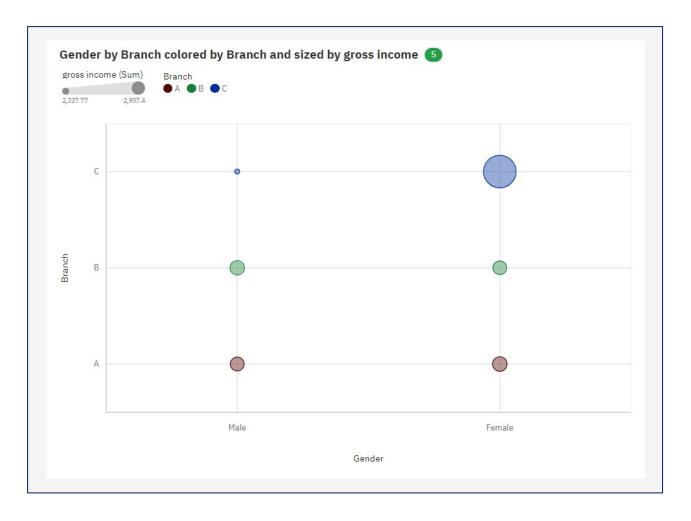


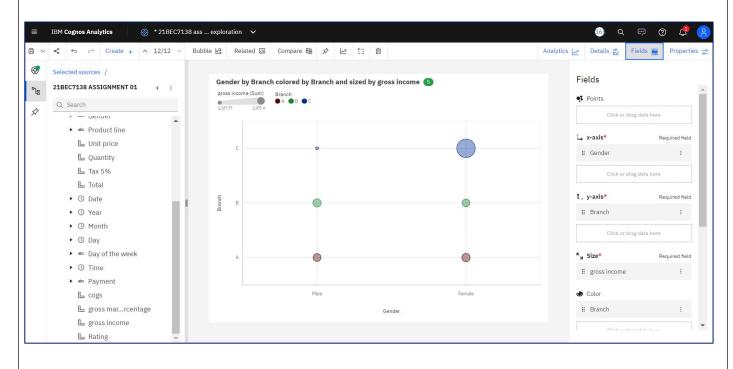
## > 10) Radial chart:





## ➤ 11) Bubble chart:





## > 12) Hierarchy Bubble chart:

