

Data Visualization on Supermarket Growth Analysis

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Upload or drag and drop spreadsheets, csv files, and other data sources.

Prepare data

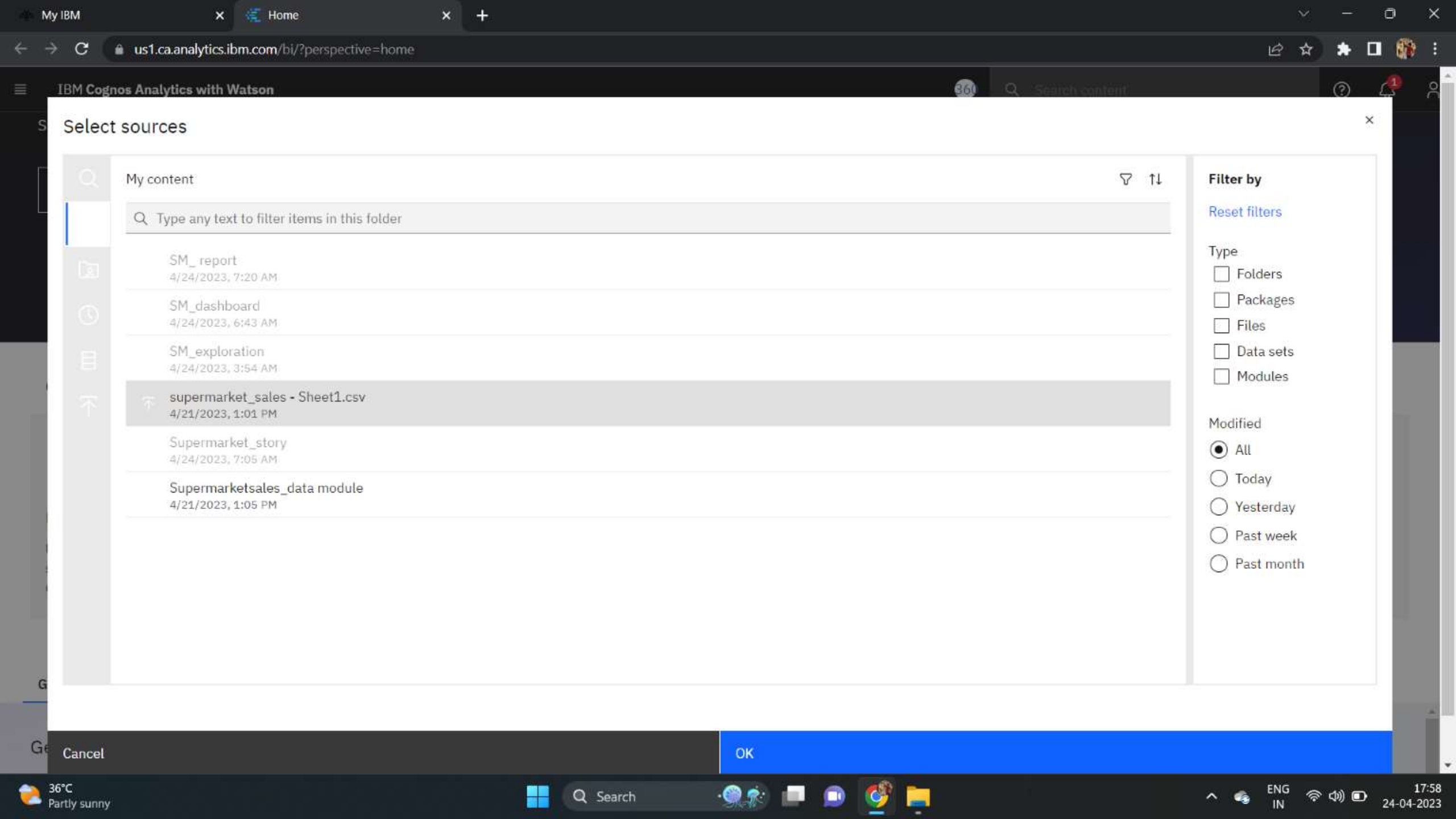
Use data modules to clean and connect data from multiple resources.

Exploration

Quickly find unbiased answers by identifying trends in your data with data exploration.

Present data

Create sophisticated, multi-page, multi-query dashboards, reports, or stories.



Select sources

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Q Type any text to filter items in this folder

SM_report

4/24/2023, 7:20 AM

SM_dashboard

4/24/2023, 6:43 AM

SM_exploration

4/24/2023, 3:54 AM

↑ supermarket_sales - Sheet1.csv

4/21/2023, 1:01 PM

Supermarket_story

4/24/2023, 7:05 AM

Supermarketsales_data module

4/21/2023, 1:05 PM

Filter by

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- ☐ Data sets
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Modified

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New data module

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=4029814148_a8cb3bd6e061417991bd4f27f94f4c9c_sessionTemp&objRef=&tid=4029814148_a8cb3bd6e061417991bd4f27f94f4c9c...

IBM Cognos Analytics with Watson

New data module

360

Search content

?

1

Properties

Data module

Search

New data module

Navigation paths

supermark...heet1.csv

Row Id

Invoice ID

Branch

City

Customer type

Gender

Product line

Unit price

Quantity

Tax 5%

Total

Date

Time

Payment

Grid

Relationships

Custom tables

	Row Id	Invoice ID	Branch	City	Customer type	Gender	Product line
	1	750-67-8428	A	Yangon	Member	Female	Health and beau
	2	226-31-3081	C	Naypyitaw	Normal	Female	Electronic acces
	3	631-41-3108	A	Yangon	Normal	Male	Home and lifest
	4	123-19-1176	A	Yangon	Member	Male	Health and beau
	5	373-73-7910	A	Yangon	Normal	Male	Sports and trave
	6	699-14-3026	C	Naypyitaw	Normal	Male	Electronic acces
	7	355-53-5943	A	Yangon	Member	Female	Electronic acces
	8	315-22-5665	C	Naypyitaw	Normal	Female	Home and lifest
	9	665-32-9167	A	Yangon	Member	Female	Health and beau
	10	692-92-5582	B	Mandalay	Member	Female	Food and bevera
	11	351-62-0822	B	Mandalay	Member	Female	Fashion accessc
	12	529-56-3974	B	Mandalay	Member	Male	Electronic acces
	13	365-64-0515	A	Yangon	Normal	Female	Electronic acces
	14	252-56-2600	A	Yangon	Normal	Male	Food and bevera

36°C

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Search

ENG

IN

17:58

24-04-2023

My IBM

New data module

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=3119649076_7a4bc303bb4d457c97b7c5b25861dd5b_sessionTemp&objRef=&tid=3119649076_7a4bc303bb4d457c97b7c5b25861d...

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New data module

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1

Properties

Data module

Search

New data module

Navigation paths

supermark...heet1.csv

Invoice ID

Branch

City

Customer type

Gender

Product line

Unit price

Quantity

Tax 5%

Total

Date

Time

Payment

cogs

gross margin

Grid

Relationships

Custom tables

	Invoice ID	Branch	City	Customer type	Gender	Product line	Unit price
	750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69
	226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	15.28
	631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33
	123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22
	373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31
	699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	85.39
	355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84
	315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56
	665-32-9167	A	Yangon	Member	Female	Health and beauty	36.26
	692-92-5582	B	Mandalay	Member	Female	Food and beverages	54.84
	351-62-0822	B	Mandalay	Member	Female	Fashion accessories	14.48
	529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.51
	365-64-0515	A	Yangon	Normal	Female	Electronic accessories	46.95
	252-56-2600	A	Yangon	Normal	Male	Food and beverages	13.10

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17:59

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Home

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2 items open

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Name	Type	Last Accessed
<div>↑</div> supermarket_sales - Sheet1.csv <div>CSV</div>	Uploaded file	4/21/2023, 1:01 PM
<div>☰</div> Supermarketsales_data module	Data module	4/21/2023, 1:05 PM

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ENG IN

17:59

24-04-2023

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New exploration

us1.ca.analytics.ibm.com/bi/?perspective=explore&id=explore_339338ae-0df0-4f93-b3d6-fbdc5ef72ba9&options%5BdisableGlassPrefetch%5D=true&options%5Bcollections%5D%5BcanvasE...

360

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1

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New exploration

Cards

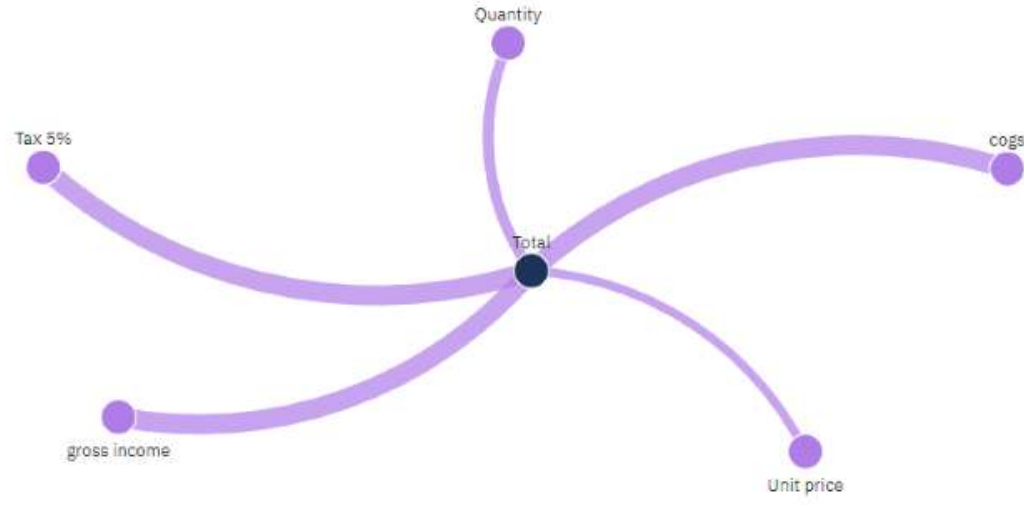
Data relationships

Explore data relationships

Supermarketsales_data module

Reset to original

Q Total x Edit diagram



Select single or multiple nodes to see visualizations.

Relationship diagram

10% 100%

Select a visualization

Explore visualizations related to 'Total'

Total

323K

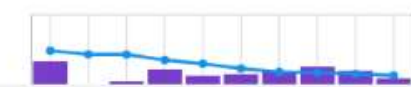
Total

Add

Total

Add

Total and Unit price by Date



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Search

ENG IN

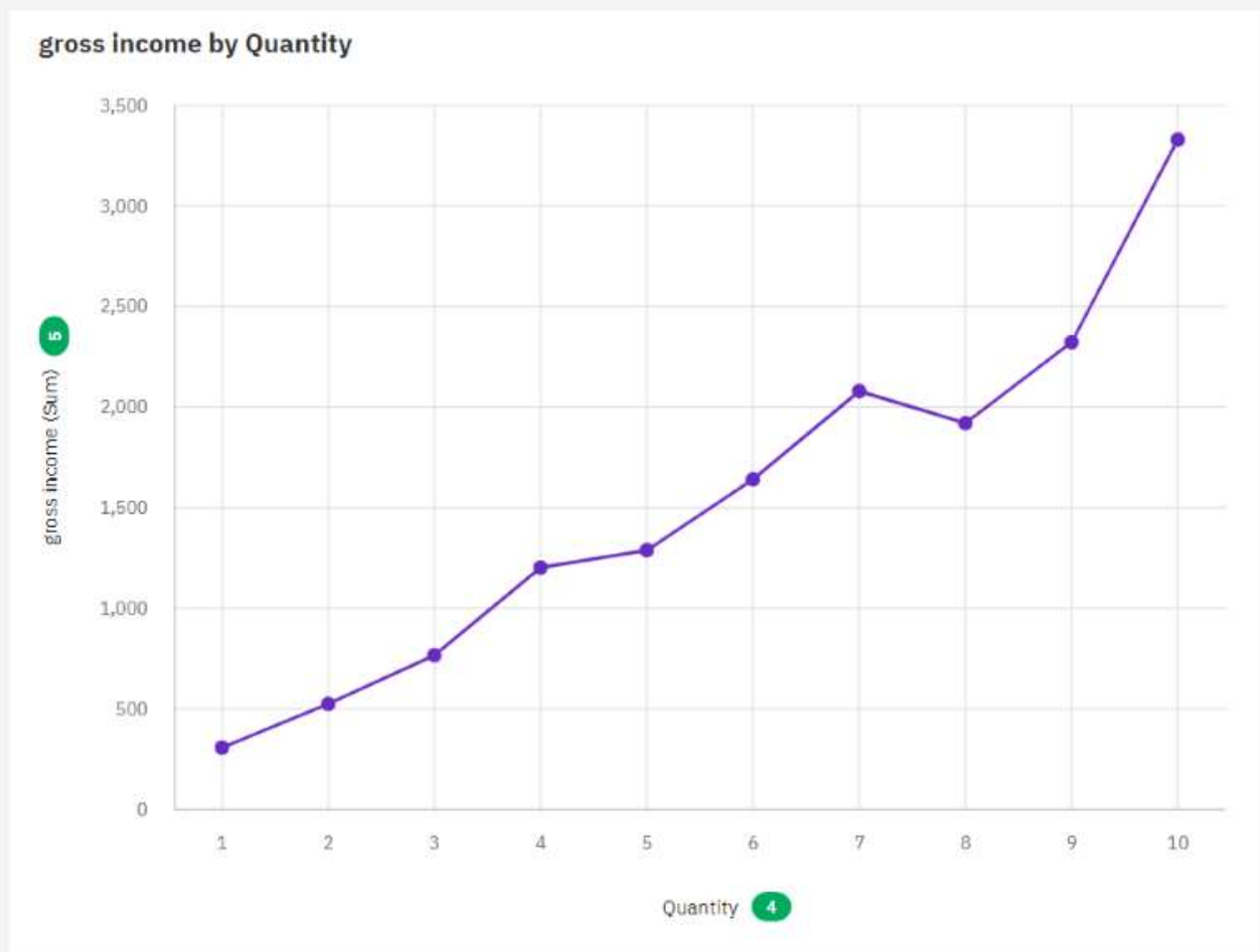
18:00 24-04-2023

Total by Prod... column chart
New exploration, 4/24/2023, 3:41 AM

Invoice ID by ...City pie chart
New exploration, 4/24/2023, 3:36 AM

gross income b...ty line chart
New exploration, 4/24/2023, 3:34 AM

Unit price by ...ent pie chart
New exploration, 4/21/2023, 1:26 PM



Fields

x-axis* Required field

Quantity

Click or drag data here

Color

Click or drag data here

y-axis* Required field

gross income

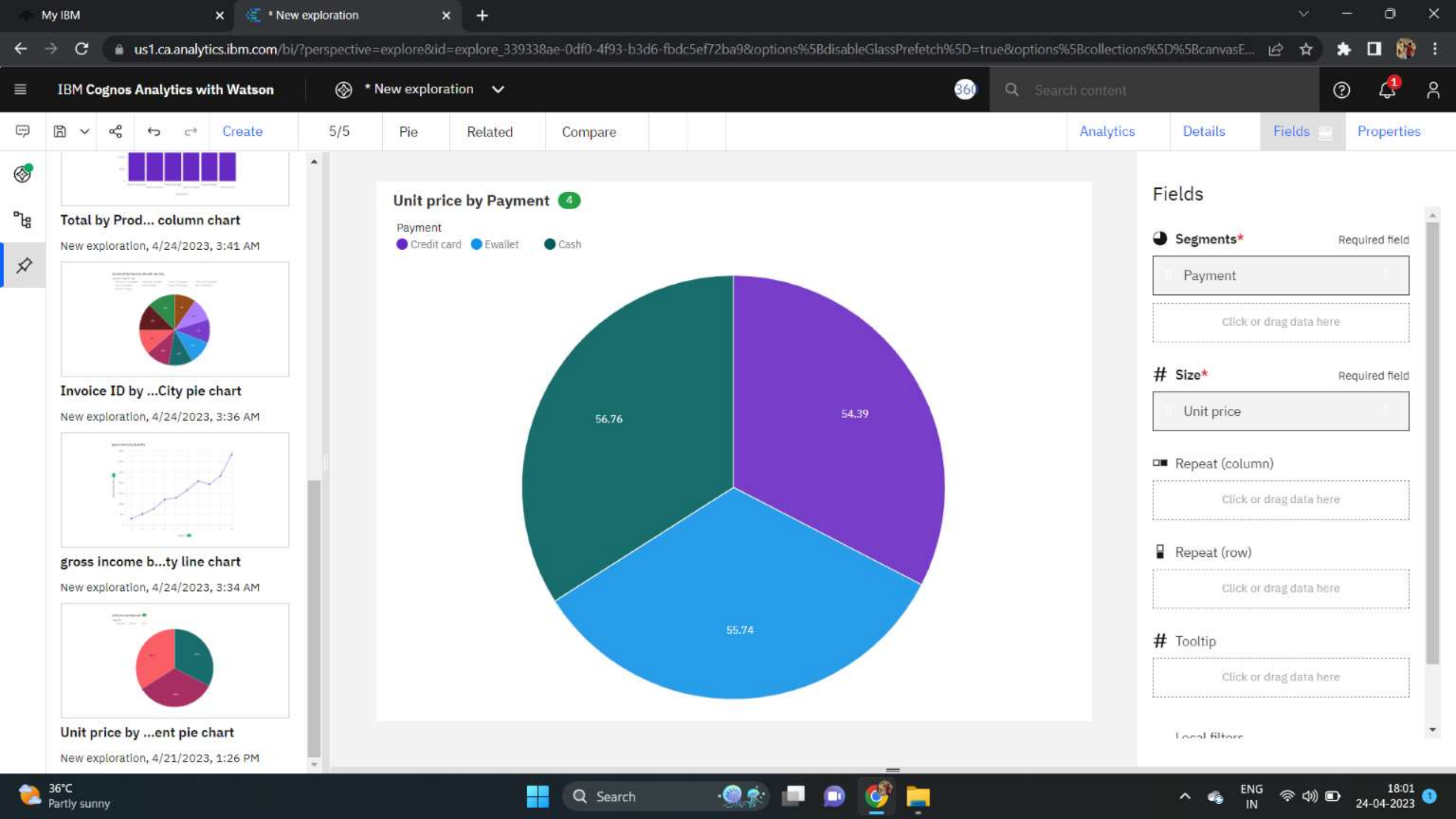
Click or drag data here

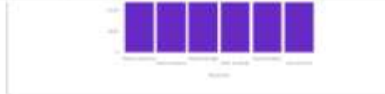
Repeat (column)

Click or drag data here

Repeat (row)


Click or drag data here





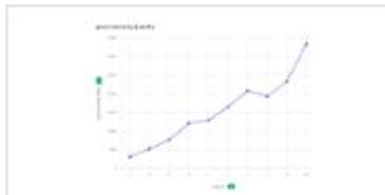
Total by Prod... column chart

New exploration, 4/24/2023, 3:41 AM



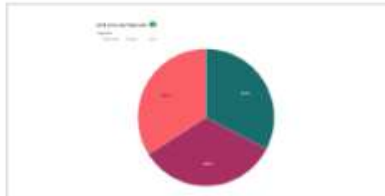
Invoice ID by ...City pie chart

New exploration, 4/24/2023, 3:36 AM



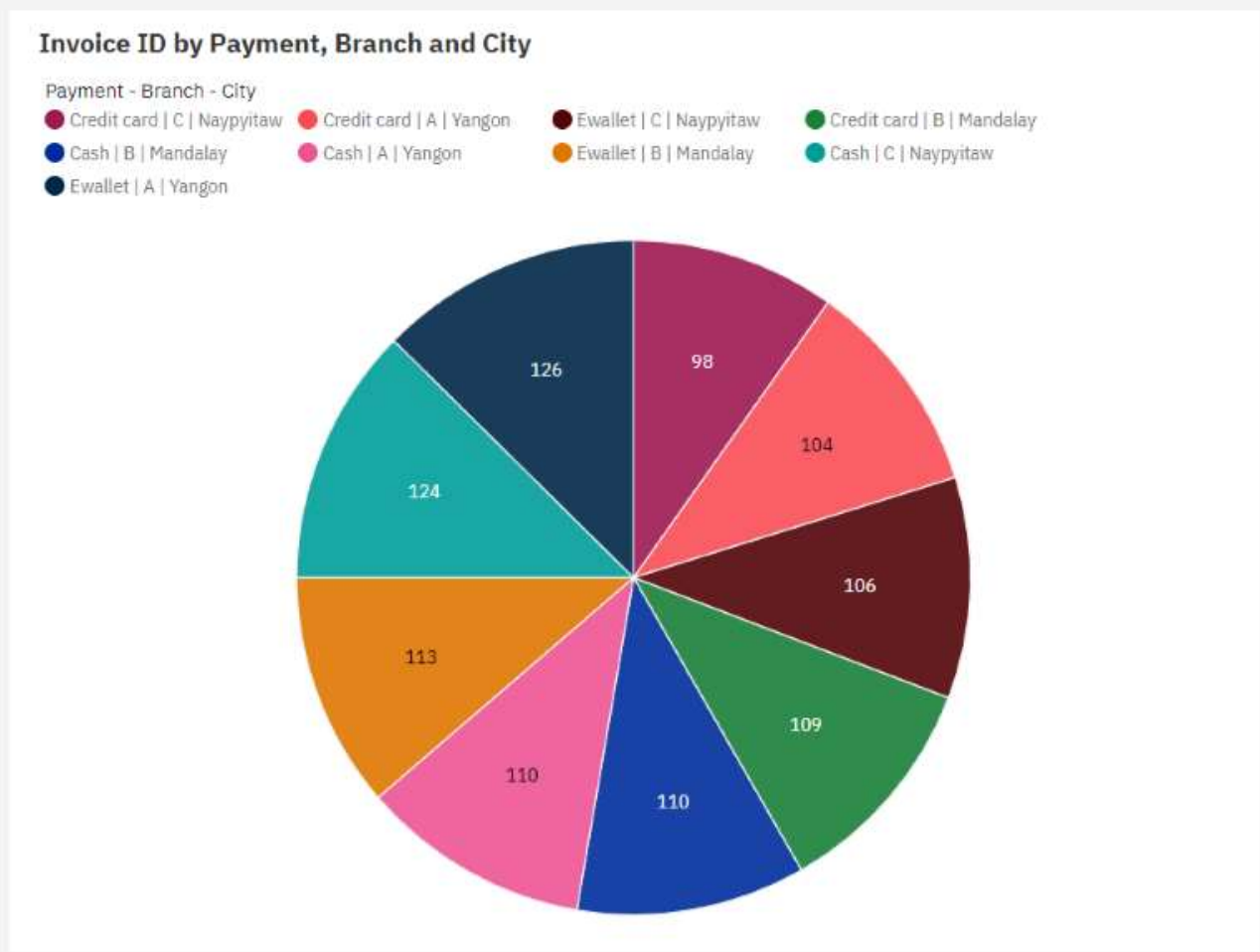
gross income b...ty line chart

New exploration, 4/24/2023, 3:34 AM



Unit price by ...ent pie chart

New exploration, 4/21/2023, 1:26 PM



Fields

Segments* Required field

Payment

Branch

City

Click or drag data here

Size* Required field

Invoice ID

Click or drag data here

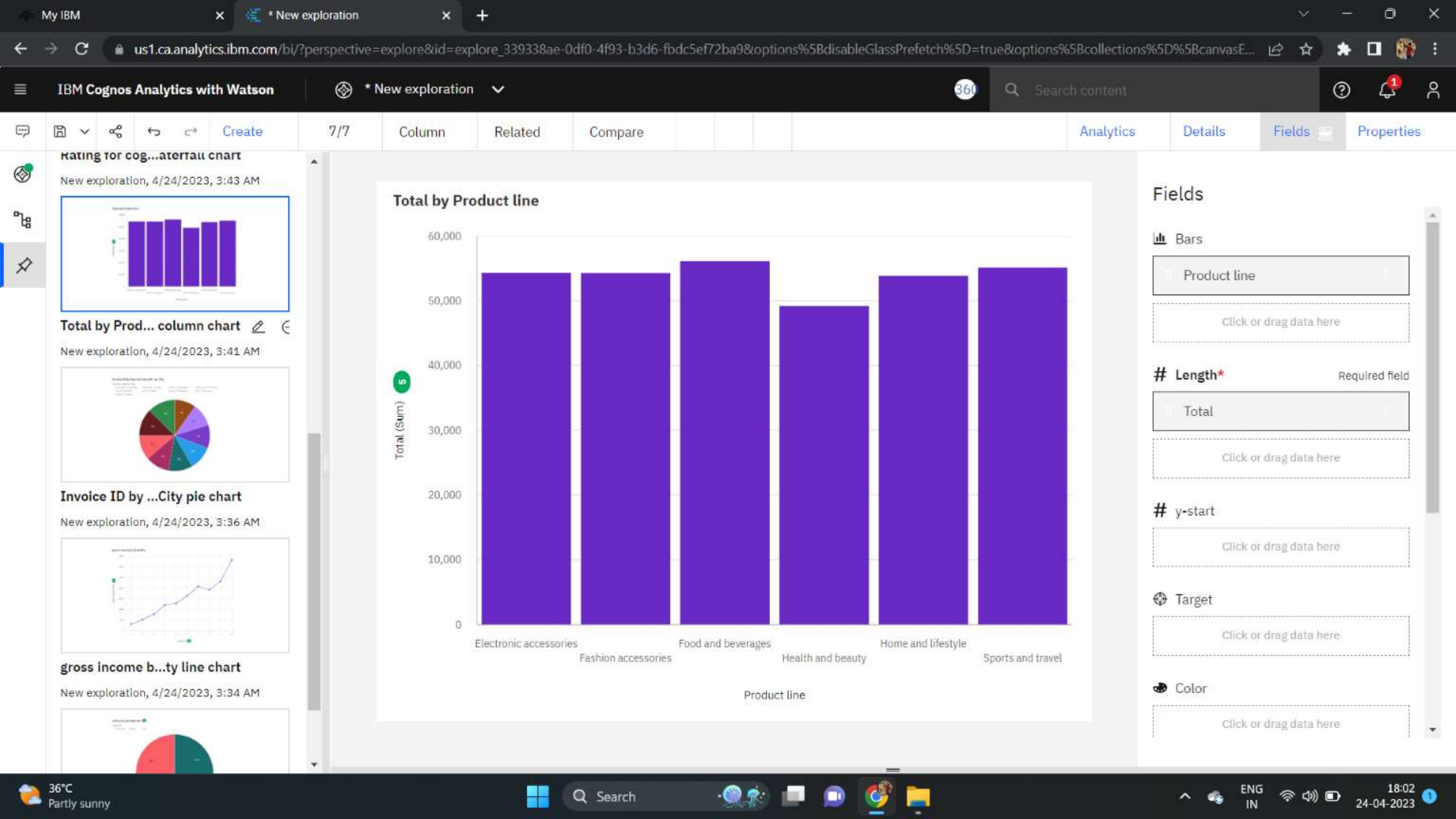
Repeat (column)

Click or drag data here

Repeat (row)

Click or drag data here

Tooltip

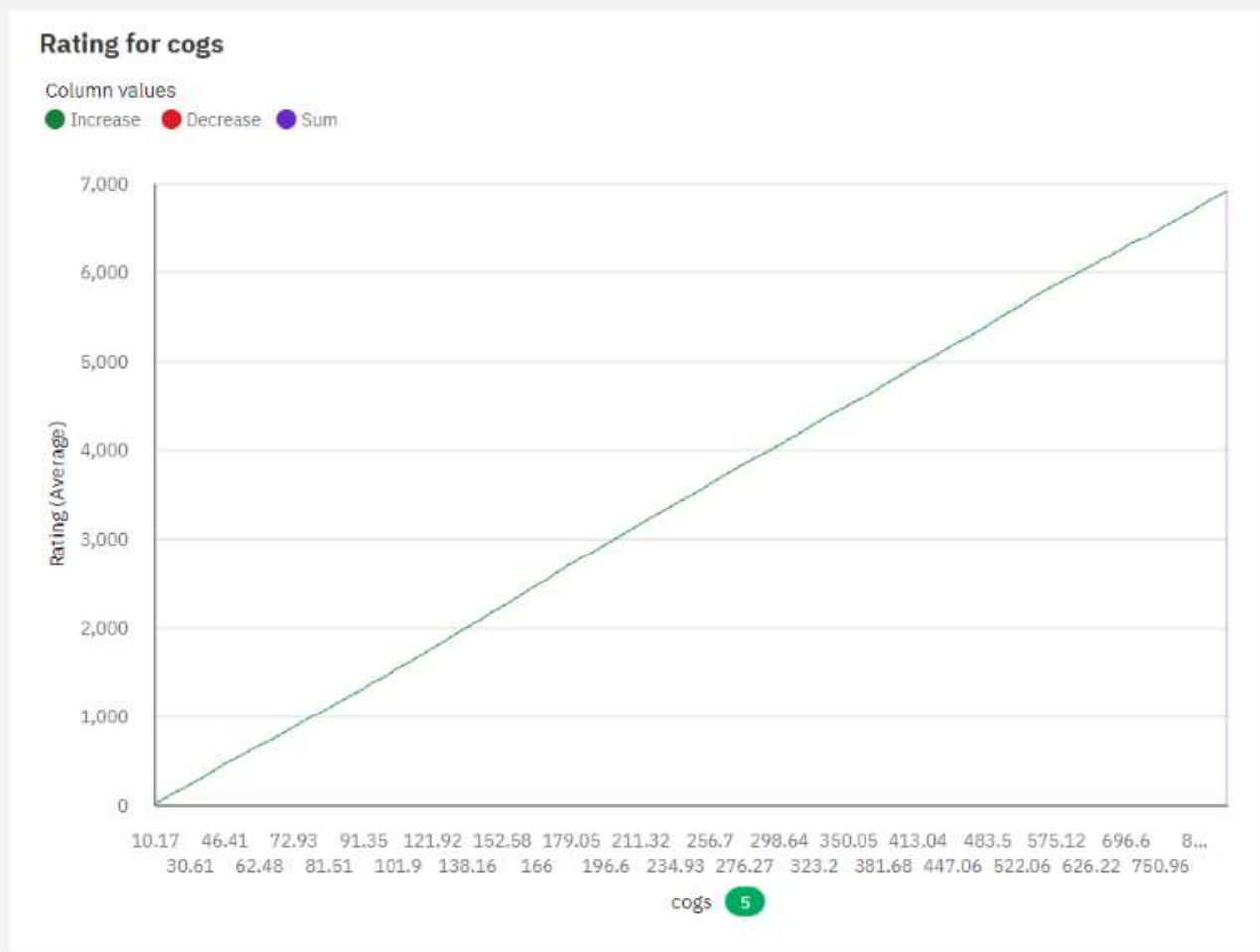


Tax 5% by Cu...column chart
New exploration, 4/24/2023, 3:52 AM

Tax 5% by Cu...column chart
New exploration, 4/24/2023, 3:45 AM

Rating for cog...aterfall chart
New exploration, 4/24/2023, 3:43 AM

Total by Prod... column chart
New exploration, 4/24/2023, 3:41 AM



Fields

x-axis

cogs

Click or drag data here

Sub-categories

Click or drag data here

y-axis* Required field

Rating

Click or drag data here

Repeat (column)


Click or drag data here

Repeat (row)

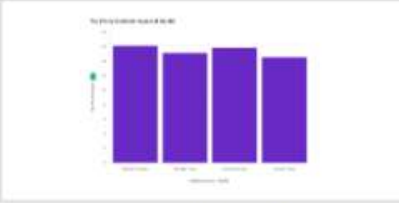
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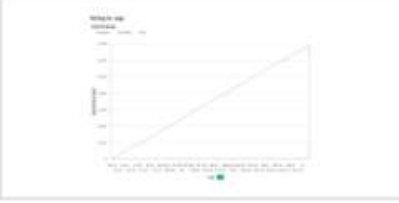
7 pins



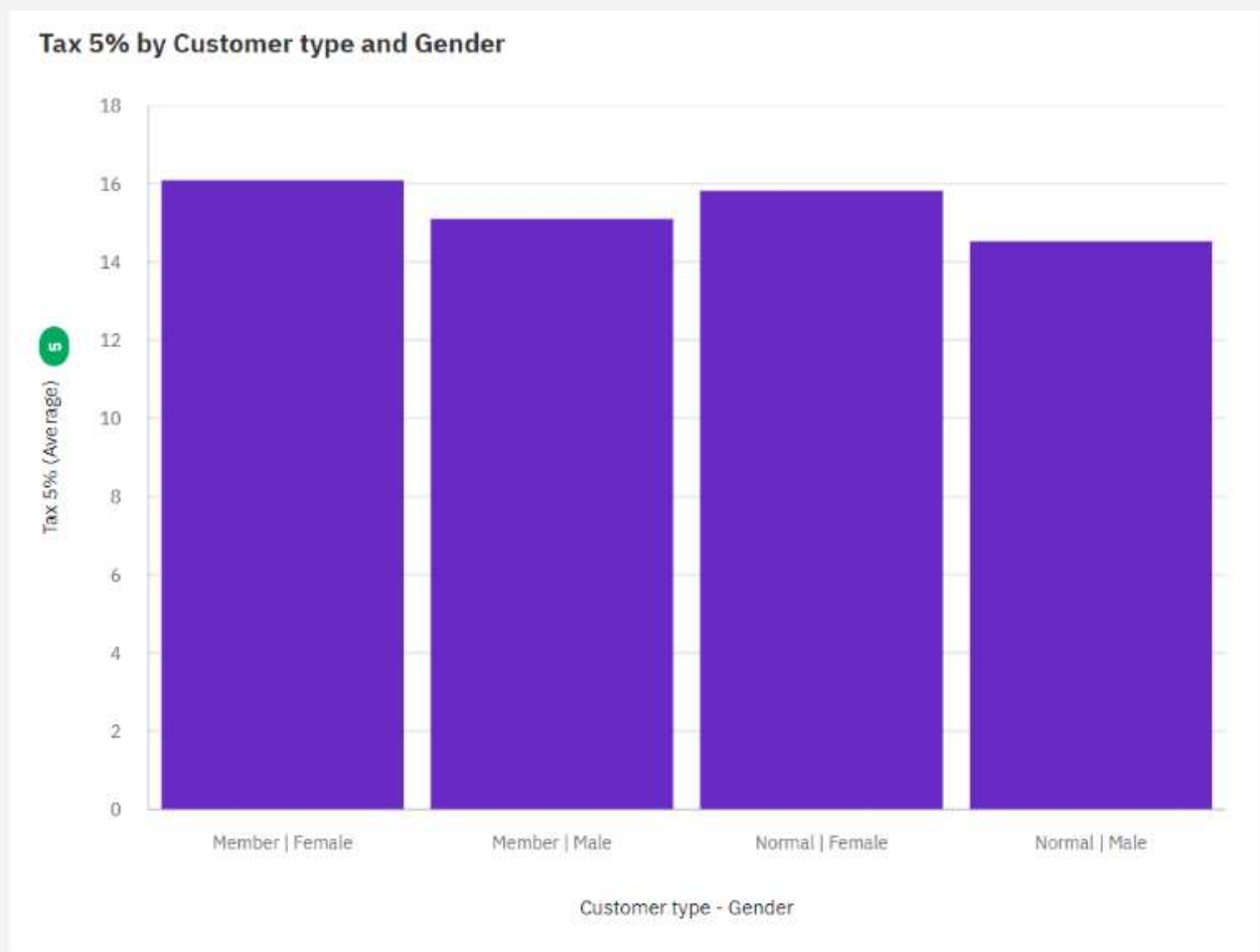
Tax 5% by Cu...column chart
New exploration, 4/24/2023, 3:52 AM




Tax 5% by Cu...column chart
New exploration, 4/24/2023, 3:45 AM



Rating for cog...aterfall chart
New exploration, 4/24/2023, 3:43 AM



Fields

 Bars

Customer type

Gender

Click or drag data here

Length*

 Required field

Tax 5%

Click or drag data here

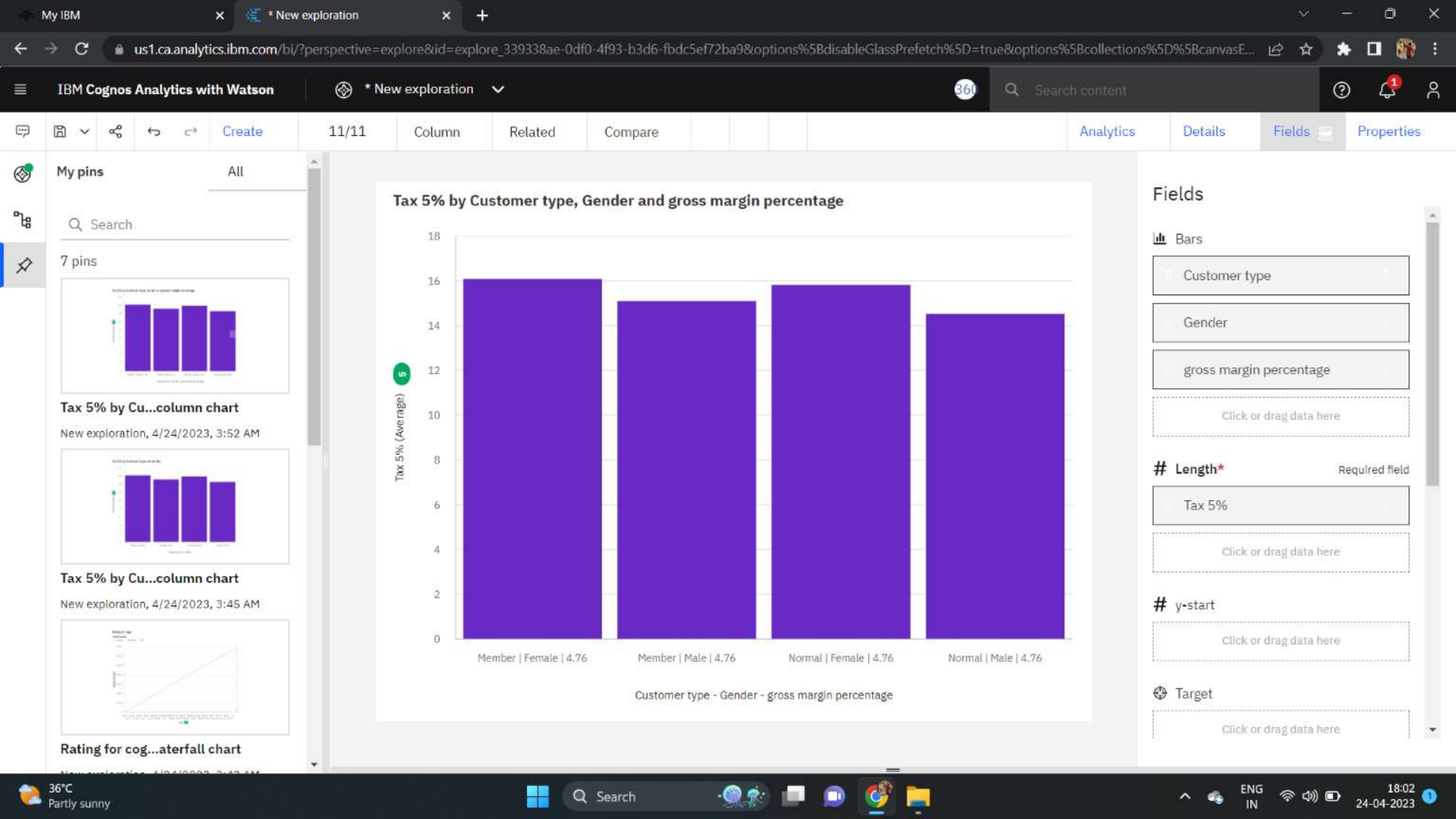
y-start

Click or drag data here

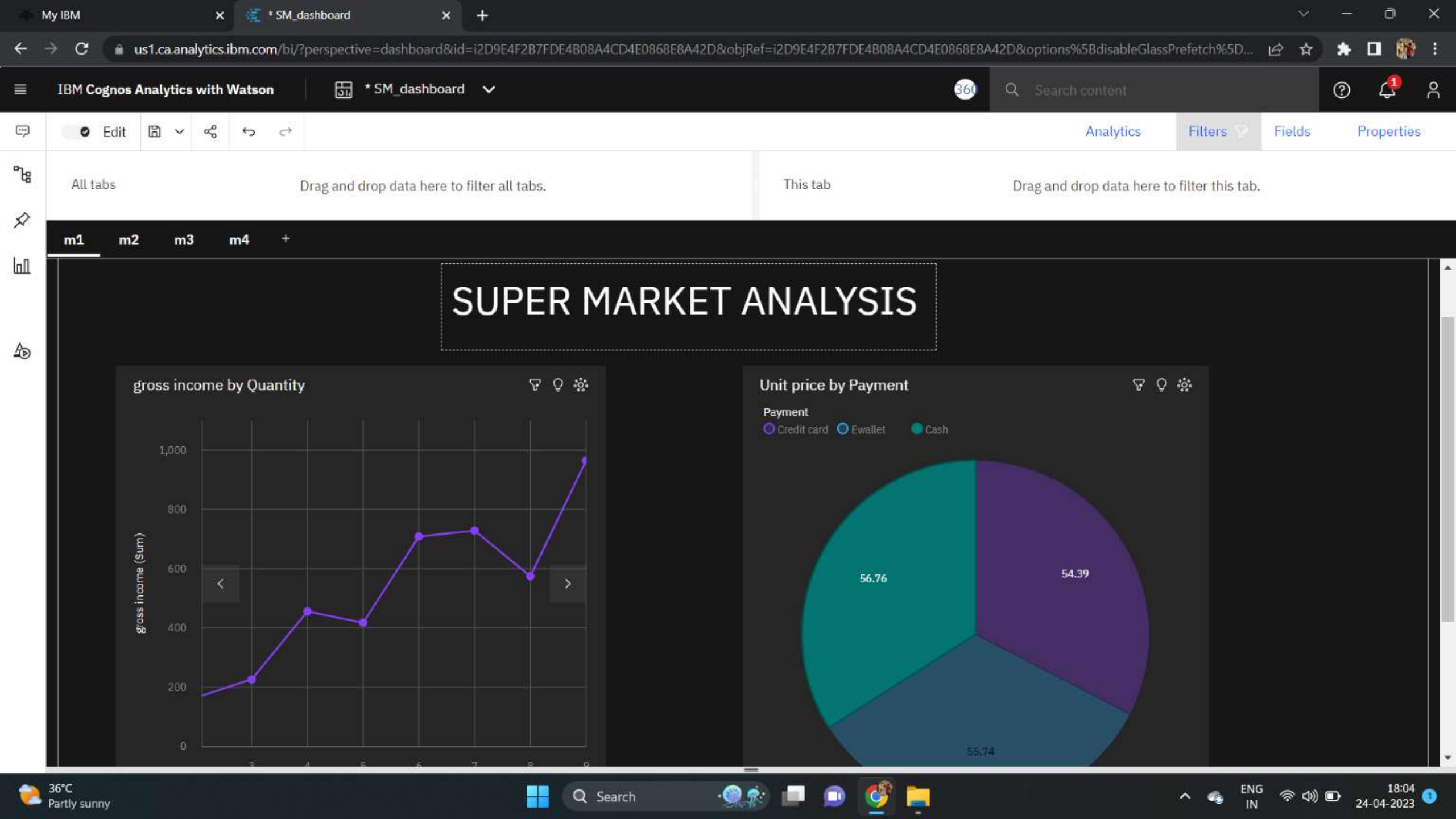
Target

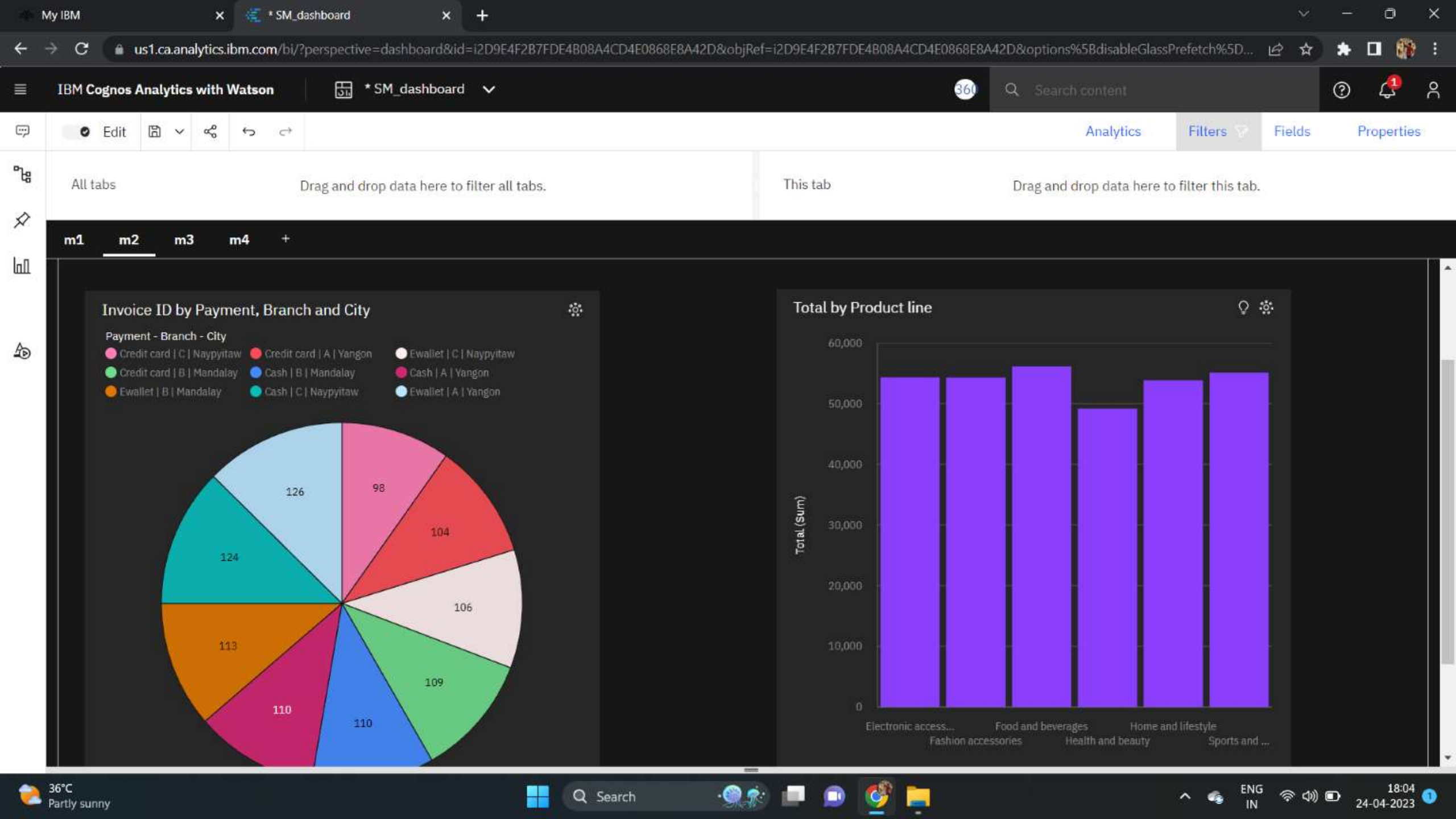
Click or drag data here

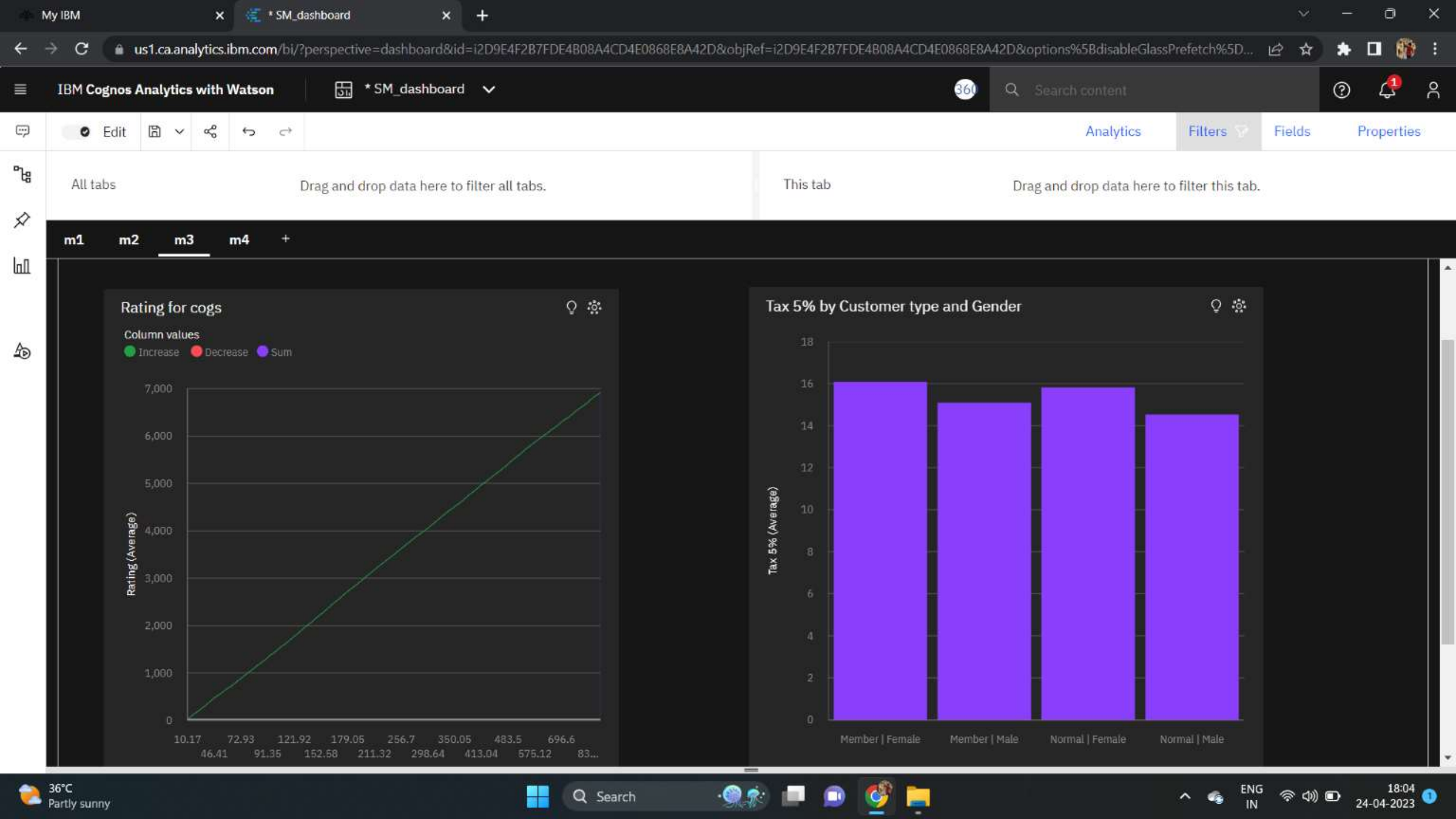
Color

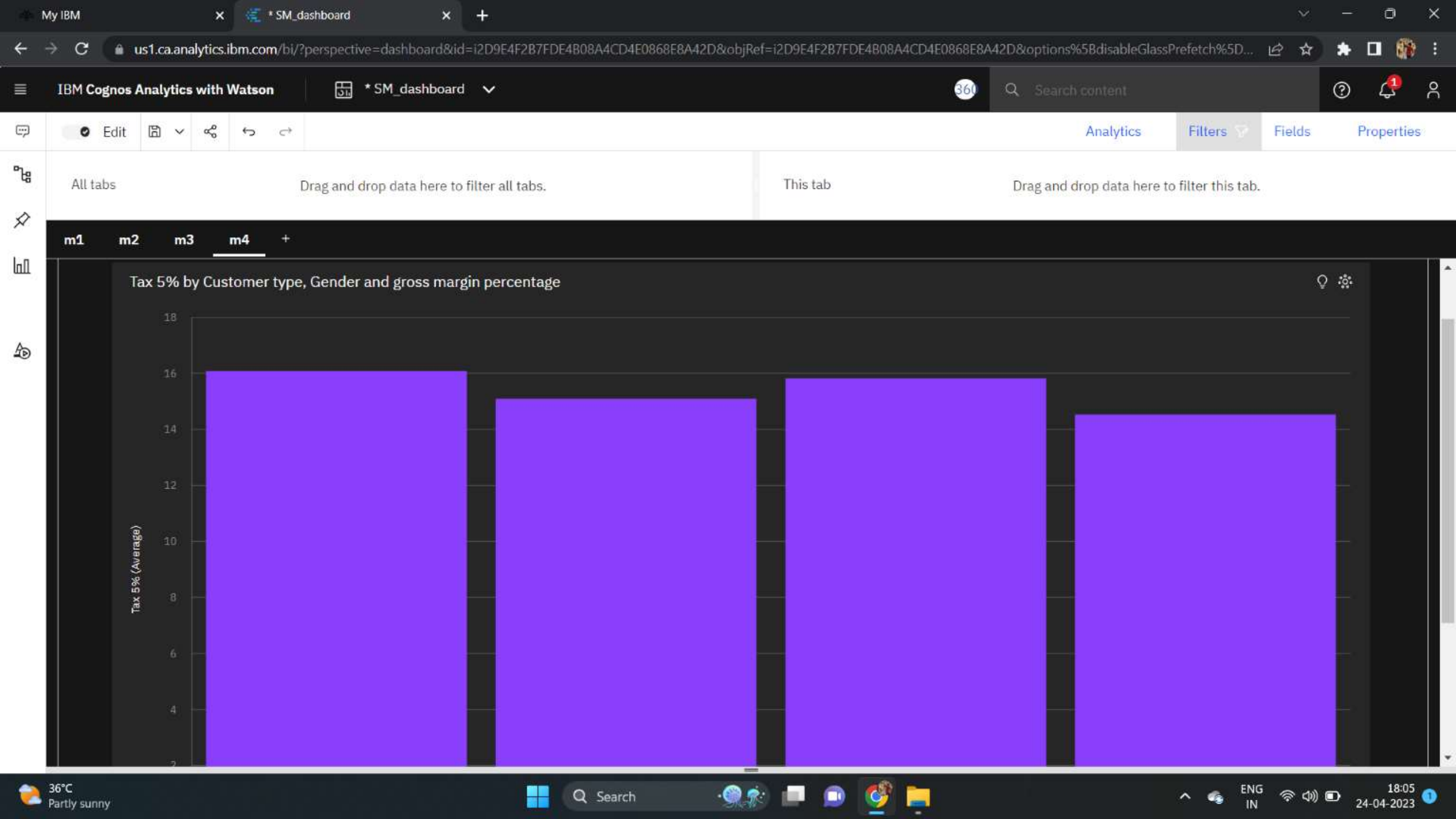


DASHBOARD

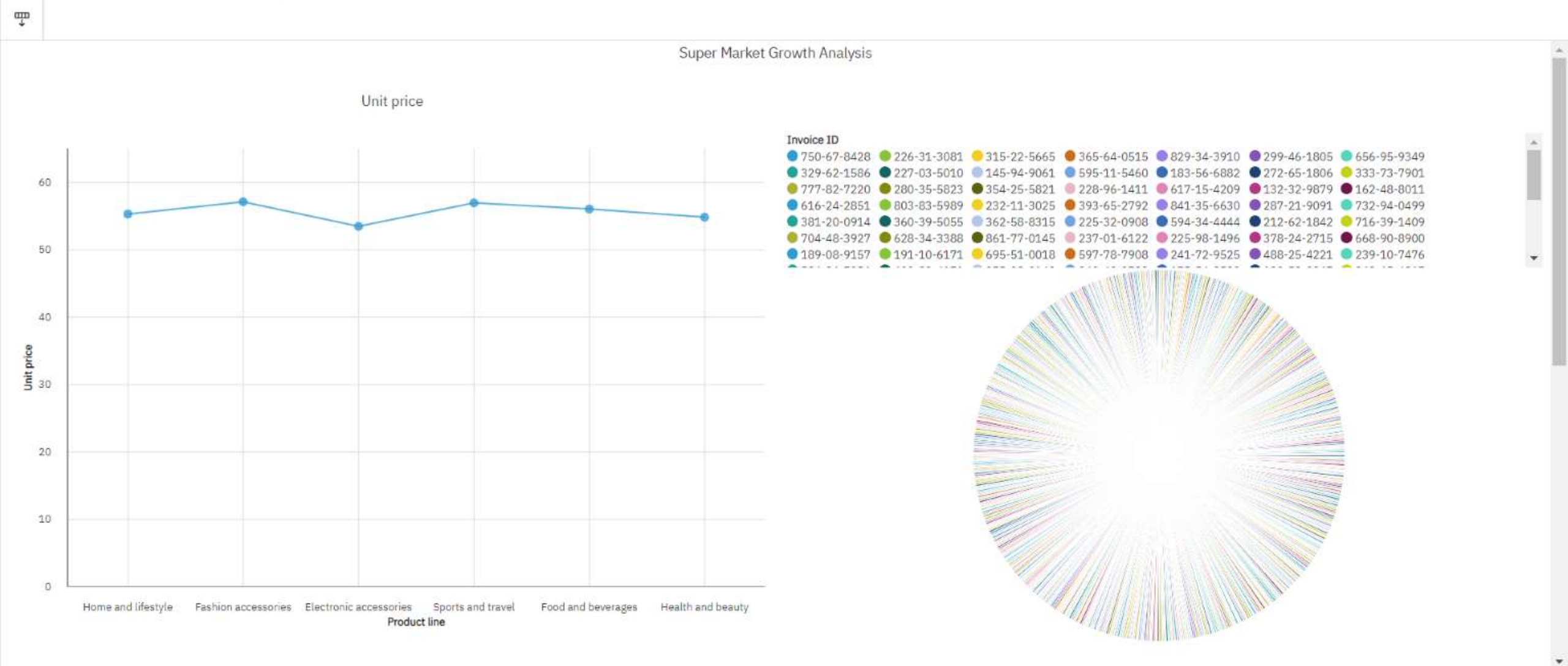




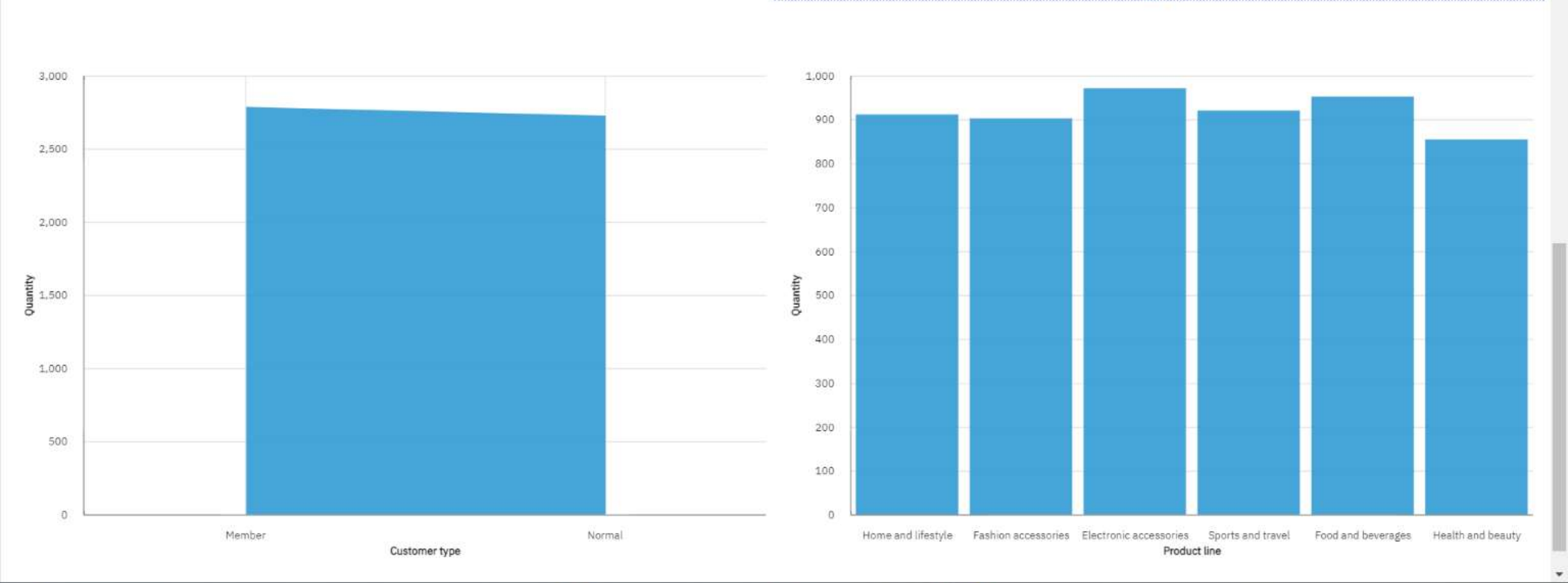




REPORT



Home and lifestyle Fashion accessories Electronic accessories Sports and travel Food and beverages Health and beauty



STORY

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* Supermarket_story

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* Supermarket_story

Analytics

Filters

Fields

Properties


All scenes

Drag and drop data here to filter all scenes.

This scene

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SUPER MARKET ANALYSIS



Prev scene

Next scene

Scene 1 of 8

0:00.0

0:05.0

36°C
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Search

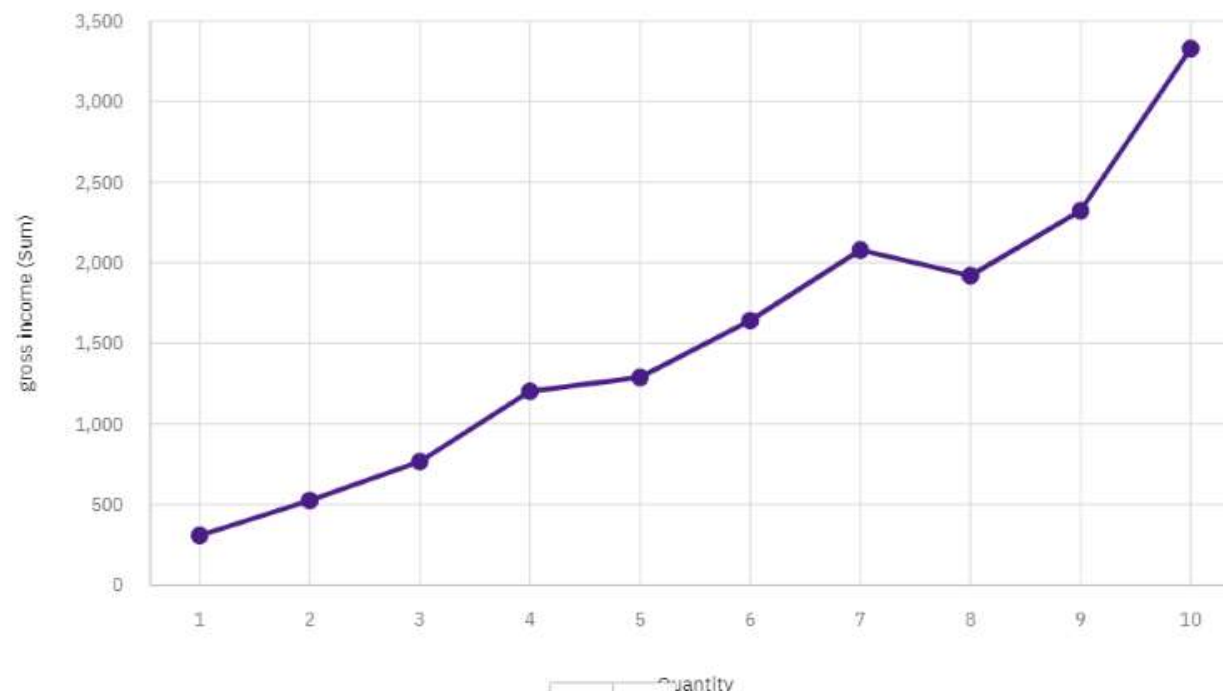
ENG
IN

18:10
24-04-2023

Gross income by quantity

- Quantity 10 has the highest values of both gross income and cogs.
- gross income is unusually high when Quantity is 10.
- Across all quantities, the sum of gross income is over fifteen thousand.
- gross income ranges from 306.8, when Quantity is 1, to almost 3500, when Quantity is 10.

gross income by Quantity



Story properties

Scenes

Story type

Slide show

Scene transition

Animated path

Canvas

Color and theme

Advanced

My IBM

Supermarket_story

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Supermarket_story

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AnalyticsFiltersFieldsProperties

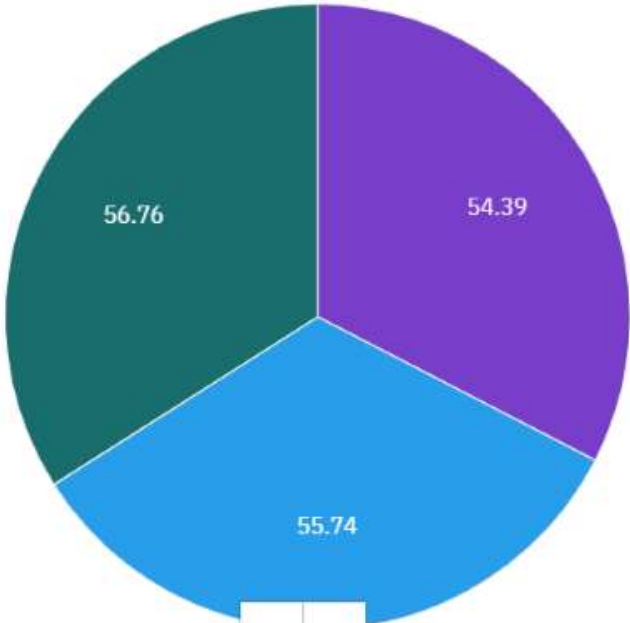
Unit price by Quantity

- Payment Cash has the highest values of both Unit price and cogs.
- Ewallet (34.5 %) and Cash (34.4 %) are the most frequently occurring categories of Payment with a combined count of 689 items with Unit price values (68.9 % of the total).
- Over all payments, the average of Unit price is 55.67.
- The average values of Unit price range from 54.39, occurring when Payment is Credit card, to 56.76, when Payment is Cash.

Unit price by Payment

Payment

- Credit card
- Ewallet
- Cash



Payment	Unit Price
Credit card	54.39
Ewallet	55.74
Cash	56.76

Story properties

Scenes

Story typeSlide show

Scene transitionAnimated path

Canvas

Color and theme

Advanced

Prev scene

Next scene

Scene 3 of 8

0:00.0

0:05.0

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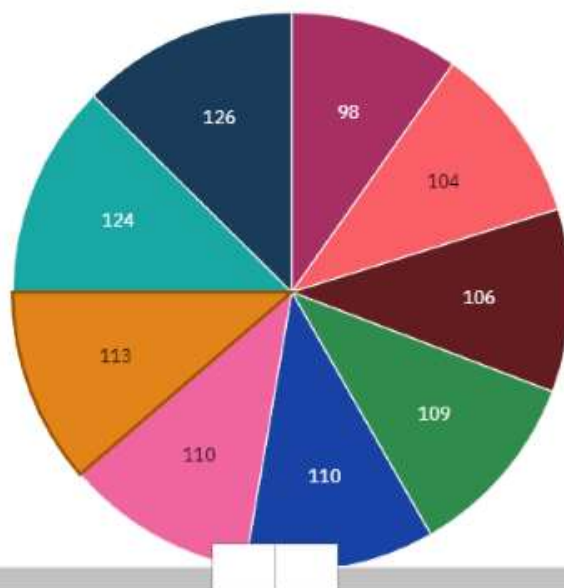
18:11
24-04-2023

Invoice ID by payment

- It is projected that by 2019-04-17, A will exceed C in Invoice ID by 0.
- From 2019-03-04 to 2019-03-05, B's Invoice ID increased by 900%.
- Ewallet|A|Yangon (12.6 %) and Cash|C|Naypyitaw (12.4 %) are the most frequently occurring categories of Payment - Branch - City with a combined count of 250 items with Invoice ID values (25 % of the total).
- The total number of results for Invoice ID for all values of Payment - Branch - City is 1000.

Invoice ID by Payment, Branch and City

Payment - Branch - City



Prev scene Next scene

Scene 4 of 8

0:00.0

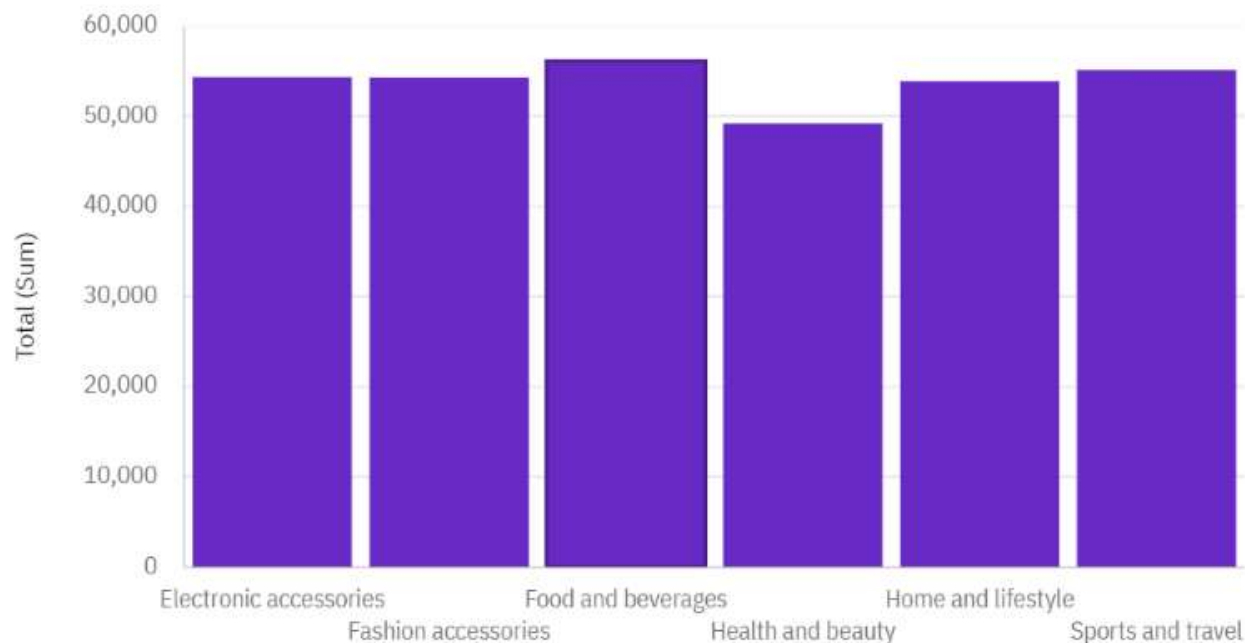
0:05.0



Product line by Total Sum

- Product line Food and beverages has the highest values of both Total and cogs.
- Over all product lines, the sum of Total is nearly 323 thousand.
- Total ranges from over 49 thousand, when Product line is Health and beauty, to over 56 thousand, when Product line is Food and beverages.
- For Total, the most significant values of Product line are Food and beverages, Sports and travel, Electronic accessories, Fashion accessories, and Home and lifestyle, whose respective Total values add up to almost 274 thousand, or 84.8 % of the total.

Total by Product line



Prev scene Next scene

Scene 5 of 8

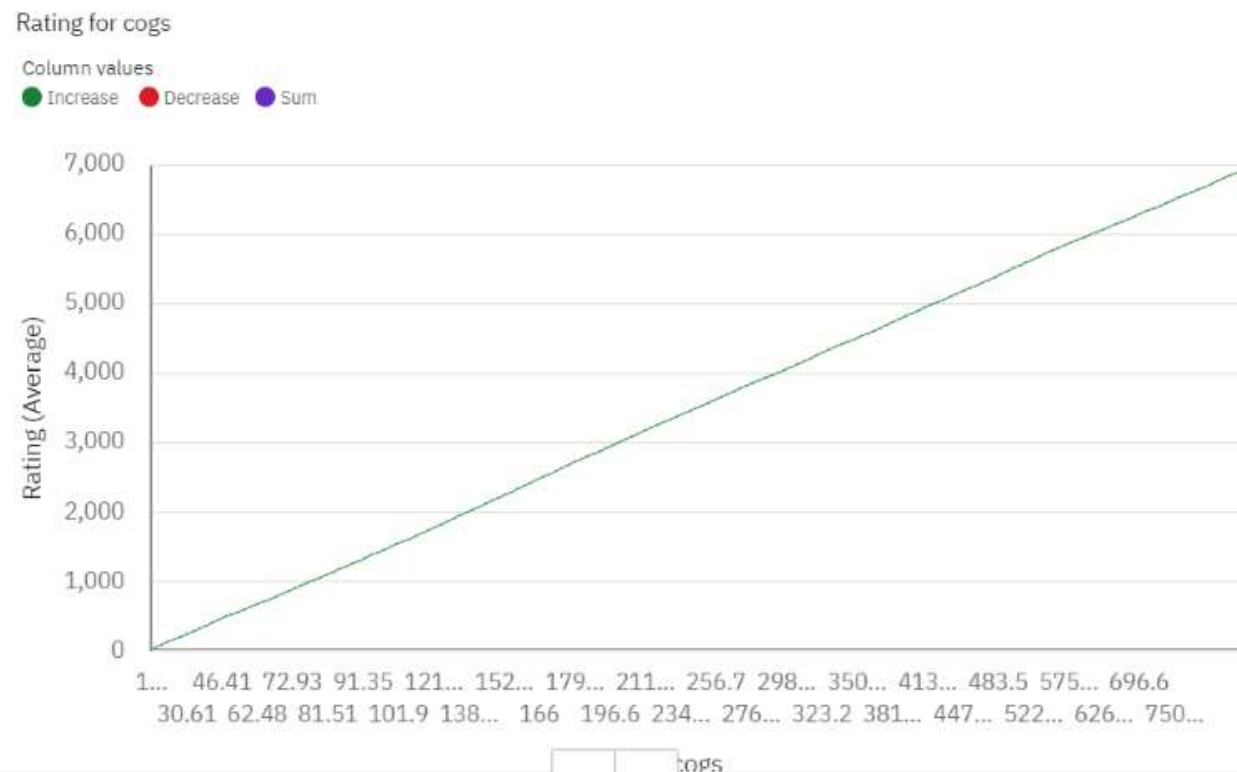
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Cogs by Rating

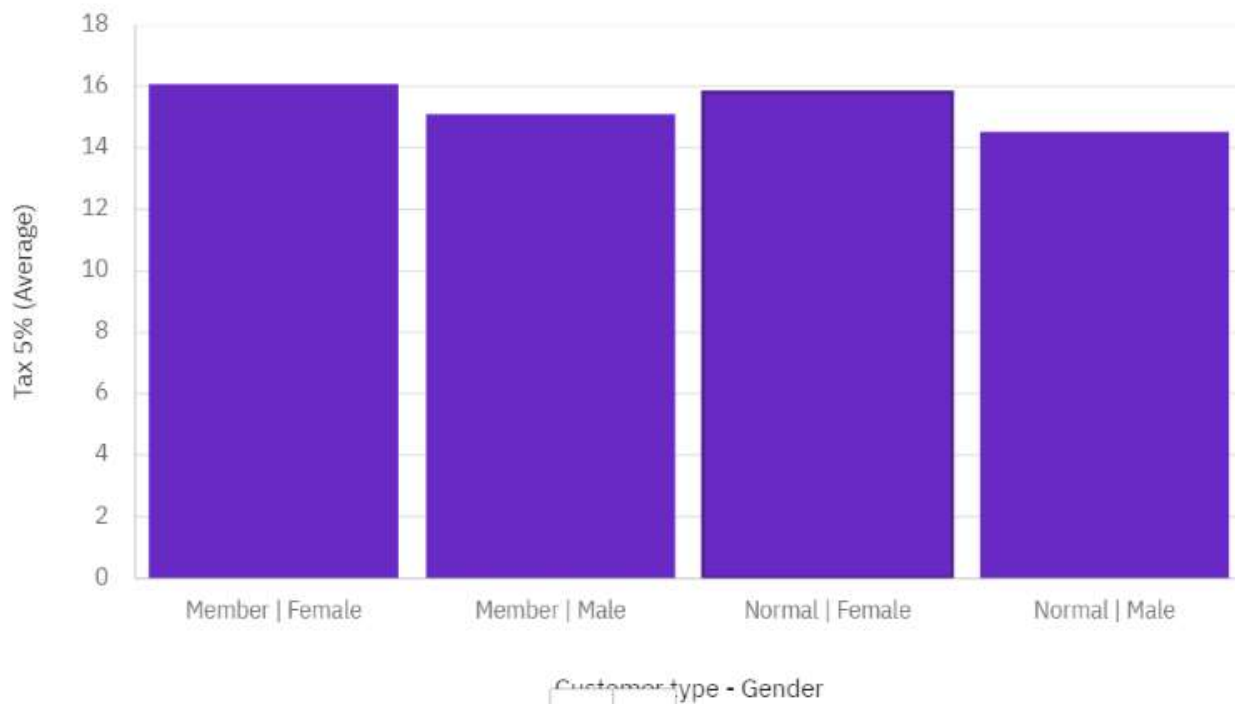
- cogs 74.22 has the highest Average Rating but is ranked #854 in Total Total.
- cogs 789.6 has the highest Total Total but is ranked #307 in Average Rating.
- cogs moderately affects Rating (64%).
- 180.09 (0.2 %), 167.54 (0.2 %), 207.27 (0.2 %), 89.28 (0.2 %), and 448.56 (0.2 %) are the most frequently occurring categories of cogs with a combined count of 10 items with Rating values (1 % of the total) .
- Over all values of cogs, the average of Rating is 6.973.
- The average values of Rating range from 4, occurring when cogs is 46.41, to 10, when cogs is 74.22.



Customer type by Tax

- Customer type Member has the highest values of both Tax 5% and Total.
- Gender Female has the highest values of both Tax 5% and Total.
- Member|Male is the most frequently occurring category of Customer type - Gender with a count of 501 items with Tax 5% values (50.1 % of the total).
- Over all customer type - genders, the average of Tax 5% is 0.499.
- The average values of Tax 5% range from 14.53, occurring when Customer type - Gender is Normal|Male, to 16.08, when Customer type - Gender is Member|Female

Tax 5% by Customer type and Gender



Story properties

Scenes

Story type

Slide show

Scene transition

Animated path

Canvas

Color and theme

Advanced

Prev scene Next scene

Scene 7 of 8

0:00.0

0:05.0



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* Supermarket_story

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Analytics

Filters

Fields

Properties

Edit

Tax by Gross margin percentage

Customer type Member has the highest values of both Tax 5% and Total.

Gender Female has the highest values of both Tax 5% and Total.

Normal|Female|4.761904762 is the most frequently occurring category of Customer type - Gender - gross margin percentage with a count of 501 items with Tax 5% values (50.1 % of the total).

Over all customer type - gender - gross margin percentages, the average of Tax 5% is 0.499.

The average values of Tax 5% range from 14.53, occurring when Customer type - Gender - gross margin percentage is Normal|Male|4.761904762, to 16.08, when Customer type - Gender - gross margin percentage is Member|Female|4.761904762.

Tax 5% by Customer type, Gender and gross margin percentage

Tax 5% (Average)

Member | Female | 4.76

Member | Male | 4.76

Normal | Female | 4.76

Normal | Male | 4.76

Customer type - Gender - gross margin percentage

Prev scene

Next scene

Scene 8 of 8

0:00.0

0:05.0

36°C

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Search

ENG IN

18:11

24-04-2023

THANK YOU