

DATA ANALYTICS ASSIGNMENT-1

STEP 1 : Uploading the dataset.

The screenshot shows the IBM Cognos Analytics web interface. The browser address bar displays `us3.ca.analytics.ibm.com/bi/?perspective=home`. The interface has a blue header with the IBM Cognos Analytics logo and a search bar. Below the header, there are tabs for 'Recent' and 'Favorites'. The 'Recent' tab is active, showing a list of four items: 'data exploration', 'exploration', 'data module', and 'supermarket_sales - Sheet1.csv'. The 'exploration' item is selected, and a blue bar at the top of the list indicates '1 item selected'. The 'exploration' item shows a 'Last Accessed' date of '25/10/2023, 21:25'.

STEP 2 : Clear the unnecessary data into the dataset.

The screenshot shows the IBM Cognos Analytics web interface with the 'New data module' view. The browser address bar displays `us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=3646505072_6b0984104bd0494eab4d8c8b053681e9_sessionTemp&objRef=&tid=3646505072_6b0984104bd...`. The interface has a blue header with the IBM Cognos Analytics logo and a search bar. Below the header, there are tabs for 'Data module', 'Grid', 'Relationships', and 'Custom tables'. The 'Data module' tab is active, showing a list of data modules. The 'supermarket_sales - Sheet1.csv' module is selected. The main view displays a table with columns: Row Id, Invoice ID, Branch, City, Customer type, and Gender. The table contains 10 rows of data.

Row Id	Invoice ID	Branch	City	Customer type	Gender
57	106-35-6779	A	Yangon	Member	Male
68	109-28-2512	B	Mandalay	Member	Female
163	101-17-6199	A	Yangon	Normal	Male
170	105-31-1824	A	Yangon	Member	Male
256	110-48-7033	B	Mandalay	Member	Male
353	115-99-4379	B	Mandalay	Member	Female
401	110-05-6330	C	Naypyitaw	Normal	Female
684	105-10-6182	A	Yangon	Member	Male
777	102-77-2261	C	Naypyitaw	Member	Male
779	102-06-2002	C	Naypyitaw	Member	Male

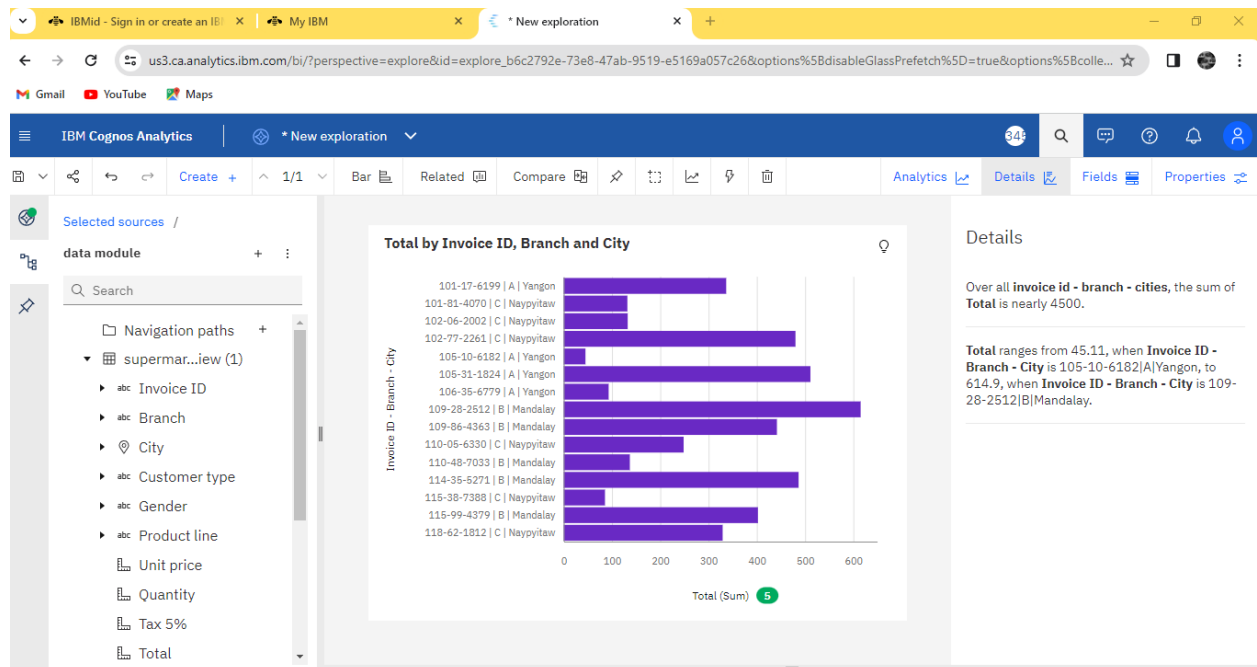
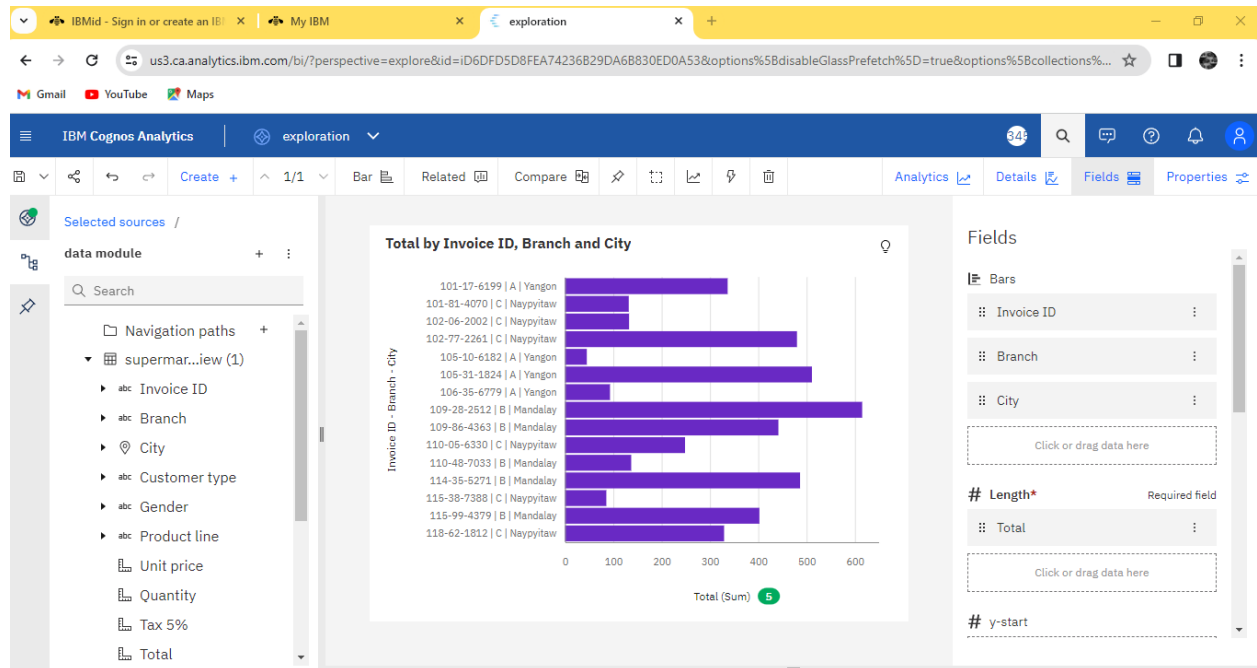
STEP 3 : Creating a custom table to view its definition.

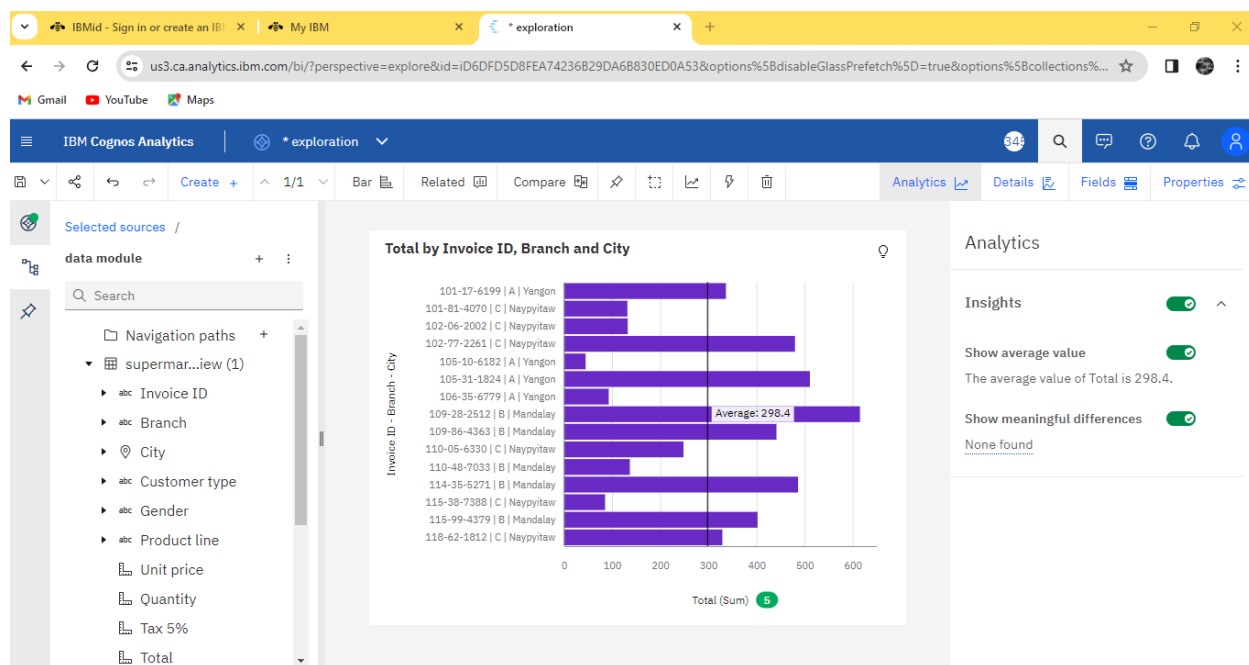
The screenshot shows the IBM Cognos Analytics web interface. The browser tab is 'New data module'. The URL is us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=3646505072_6b0984104bd0494eab4d8c8b053681e9_sessionTemp&objRef=&tid=3646505072_6b0984104bd.... The interface has a top navigation bar with 'IBM Cognos Analytics' and a search bar. Below the navigation bar, there's a 'Data module' section on the left with a search bar and a list of data modules. The 'supermarket_sales' module is selected, showing a list of fields: Row Id, Invoice ID, Branch, City, Customer type, Gender, Product line, Unit price, Quantity, Tax 5%, and Total. The main area shows the 'Custom tables' view for 'supermarket_sales - Sheet1.csv - View (1)'. It displays a diagram with two boxes: 'supermarke...Sheet1.csv' and 'supermarke... View (1)', connected by a relationship arrow. A 'Properties' button is visible on the right.

STEP 4 : Data Exploration.

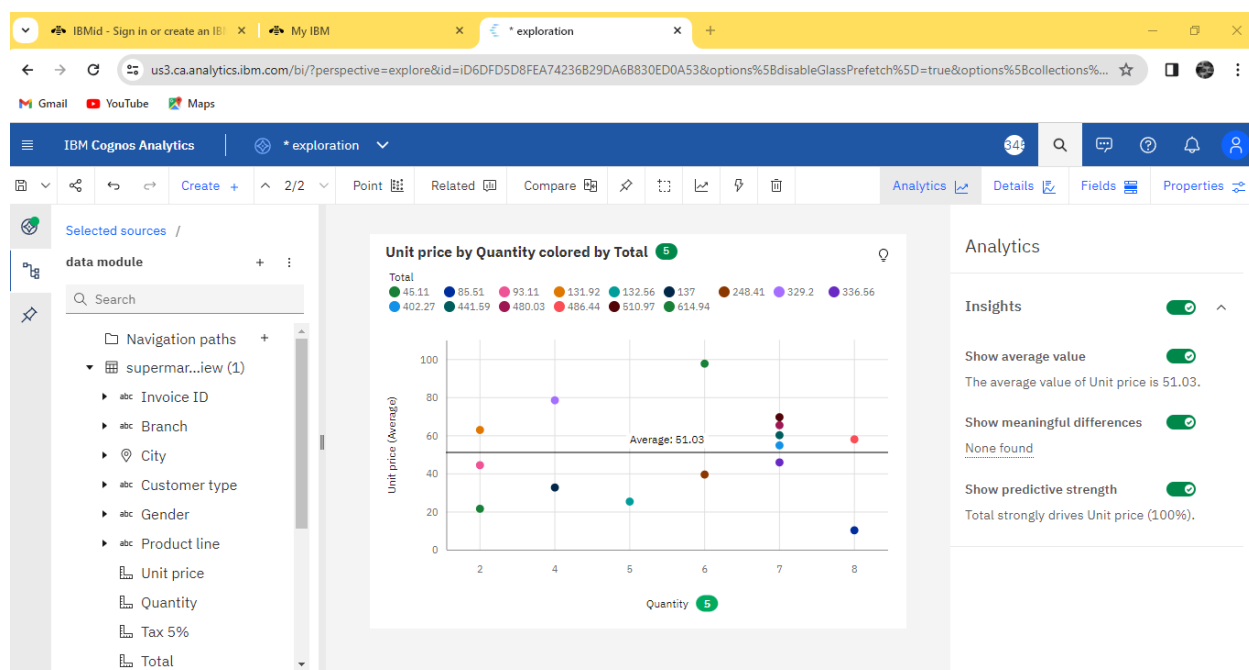
The screenshot shows the IBM Cognos Analytics web interface. The browser tab is 'New exploration'. The URL is us3.ca.analytics.ibm.com/bi/?perspective=explore&id=explore_648b4587-4d9d-4db3-8807-8e24925d3d97&options%5BdisableGlassPrefetch%5D=true&options%5Bcoll.... The interface has a top navigation bar with 'IBM Cognos Analytics' and a search bar. Below the navigation bar, there's a 'Cards' section on the left with a search bar and a list of cards. The 'Data relationships' card is selected, showing a diagram with a central node 'Total' and several connected nodes: Quantity, Rating, Payment, cogs, Unit price, gross income, and Tax 5%. The main area shows the 'Explore data relationships' view for 'data module: Total'. It displays a relationship diagram with 'Total' as the central node, connected to 'Quantity', 'Rating', 'Payment', 'cogs', 'Unit price', 'gross income', and 'Tax 5%'. A 'Reset to original' button is visible. The right side shows a 'Select a visualization' section with a search bar and a list of visualizations. The 'Total' visualization is selected, showing a large number '4.48K' and the label 'Total'. A 'Add +' button is visible.

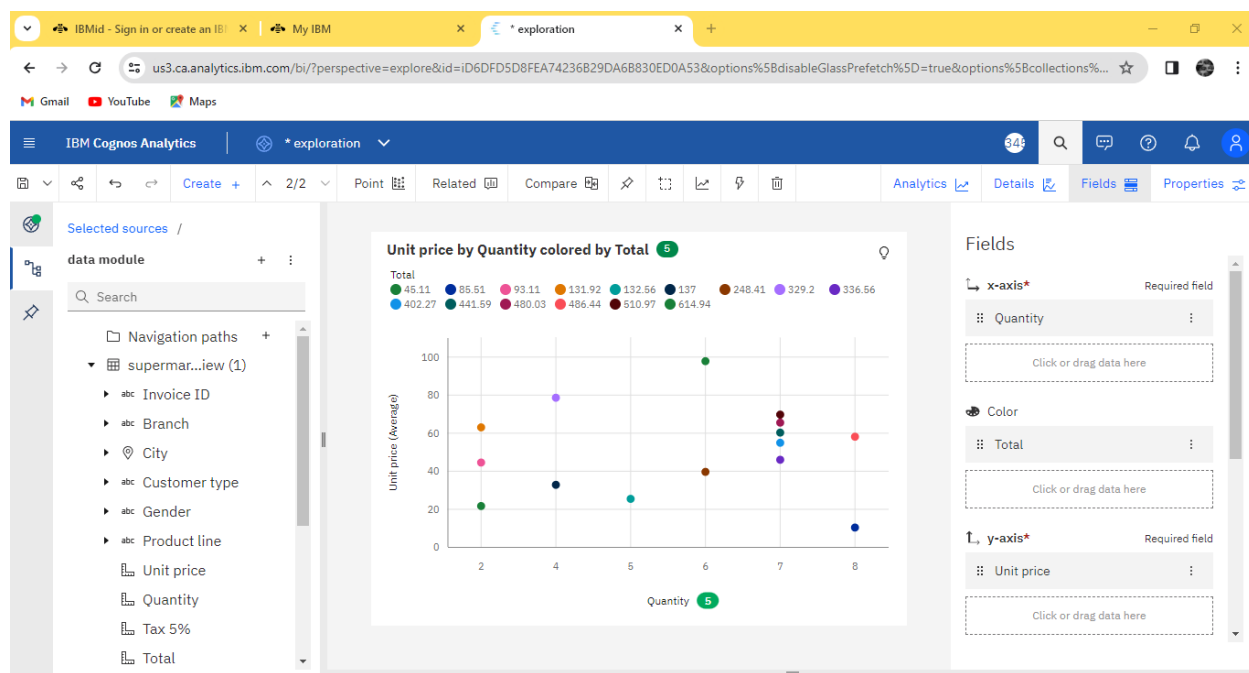
STEP 5 : Visualization of invoice ID, Branch and City.



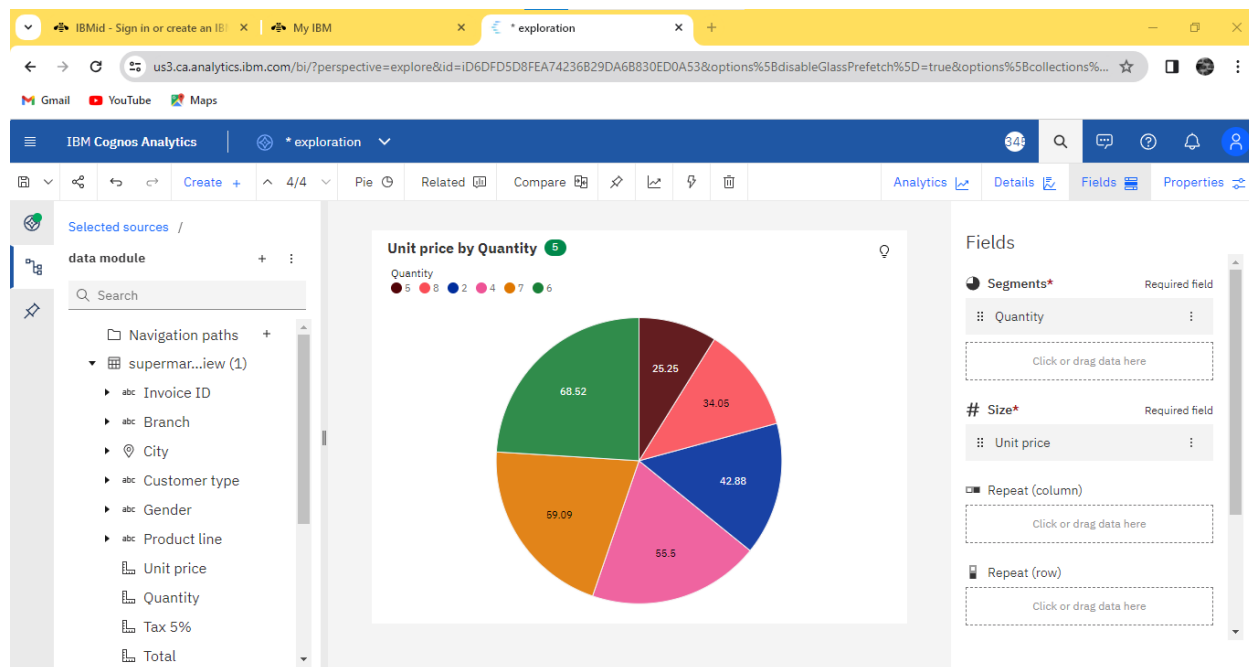


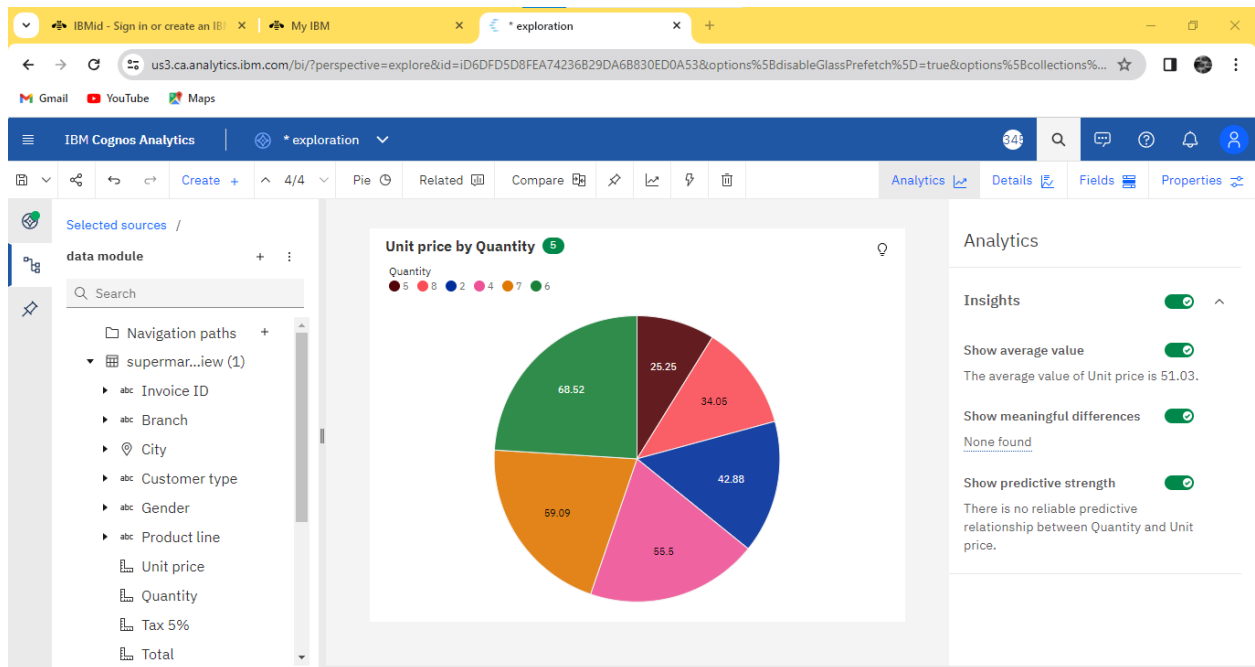
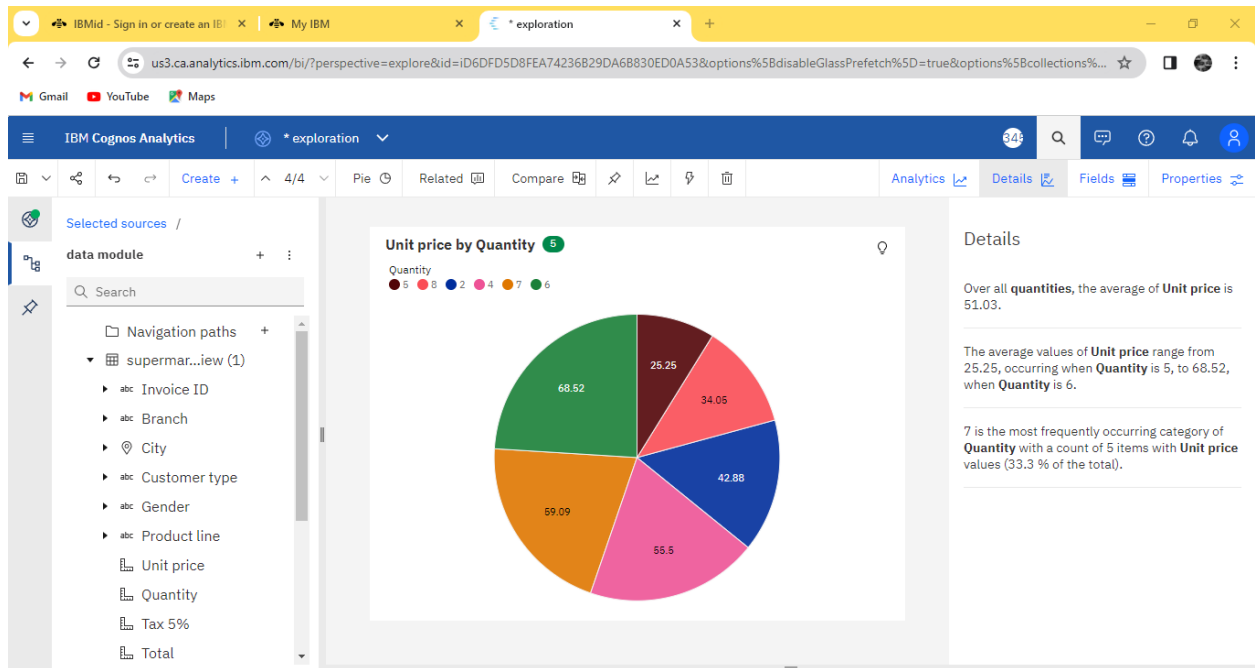
STEP 6 : Visualization of Unit price by Qunatity colored by Total.





STEP 7 : Visualization of Unit price by Quantity.





STEP 8 : Visualization of Total by Date and Time.

