# ASSIGNMENT 1 IBM COGNOS DATA ANALYTICS

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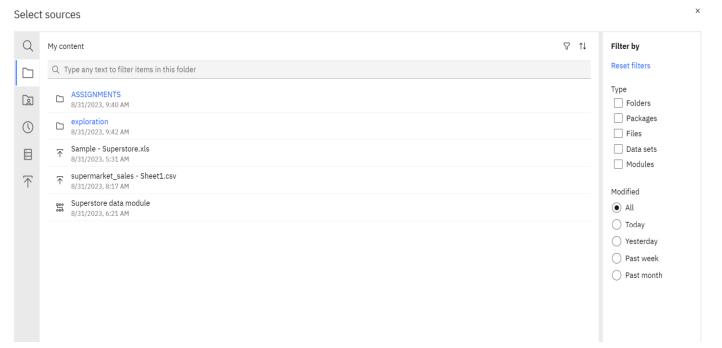
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**AIM:** The growth of supermarkets in most populated cities is increasing and market competitions are also high. The dataset is one of the historical sales of supermarket company which has recorded in 3 different branches for 3 months data. Predictive data analytics methods are easy to apply to this dataset.

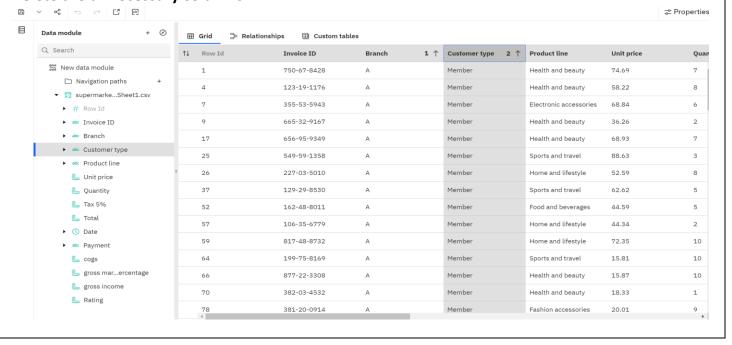
Given the context of your predictive data analytics project for historical sales data of a supermarket company.

### **CHALLENGE:**

### **Upload the dataset to Cognos Analytics**



#### Delete the unnecessary columns



City: Since you've mentioned that the company has branches, the city information might not be crucial if you're focusing on branch-level analysis.

Gender: In most cases, gender might not strongly influence overall sales predictions.

Tax: While tax is relevant to the total price, including it in the analysis might not add much predictive value.

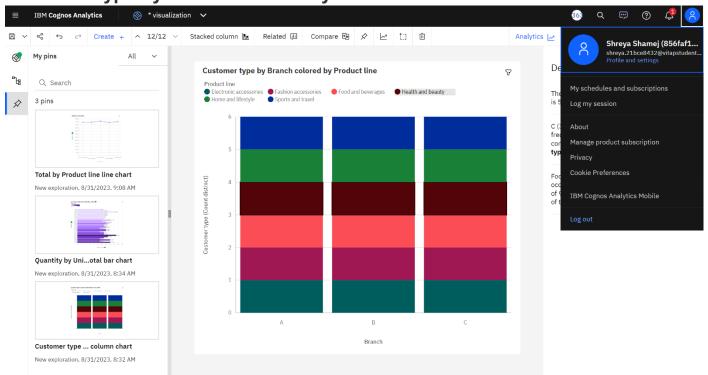
Time: If you're looking at broader trends and patterns, specific purchase times might not be necessary.

create a data module, explore and visualize the dataset.

Now arrange the columns in ascending order.

#### **EXPLORE AND VISUALIZE THE DATA**

Customer type by Branch colored by Product line.

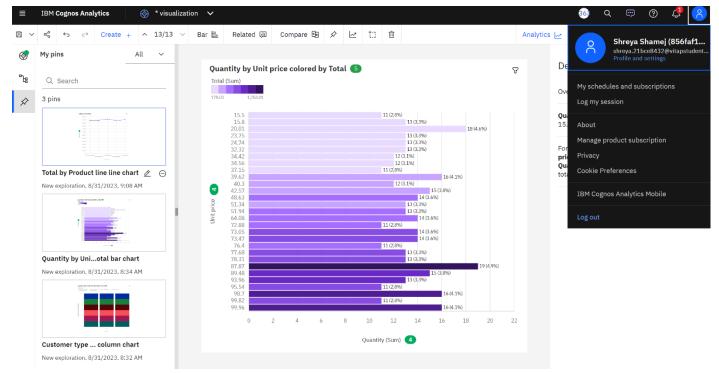


The overall number of results for Customer type is 501.

C (33.7 %) and A (33.3 %) are the most frequently occurring categories of Branch with a combined count of 336 items with Customer type values (67.1 % of the total).

Food and beverages is the most frequently occurring category of Product line with a count of 94 items with Customer type values (18.8 % of the total).

## Quantity by Unit price coloured by Total

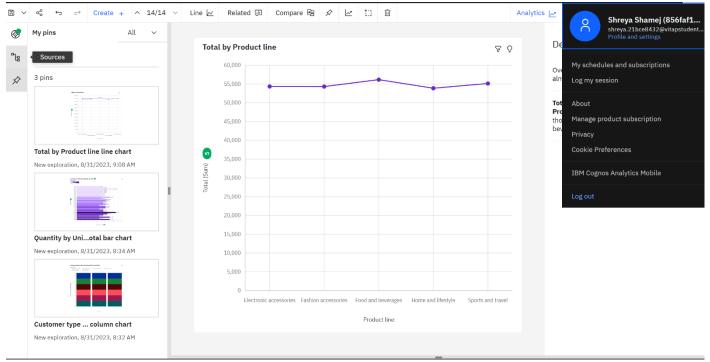


Over all unit prices, the sum of Quantity is 390.

Quantity ranges from 11, when Unit price is 15.5, to 19, when Unit price is 87.87.

For Quantity, the most significant values of Unit price are 87.87 and 20.01, whose respective Quantity values add up to 37, or 9.5 % of the total.

## **Total by Product line**



Over all product lines, the sum of Total is almost 274 thousand.

Total ranges from almost 54 thousand, when Product line is Home and lifestyle, to over 56 thousand, when Product line is Food and beverages.