

Data Analytics Assignment 1

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Problem Statement:

Our objective is to analyze the growth data for three branches of a supermarket, which covers a three-month duration. The market is highly competitive, particularly in densely populated cities. Our task involves preparing the data by removing redundant columns and creating a data module. Subsequently, we aim to explore and visualize the data set using Cognos Analytics, in order to gain valuable insights from the data.

Dataset Link:

<https://www.kaggle.com/datasets/aungpyaeap/supermarket-sales>

Steps:

^ Quick launch



Upload data

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.



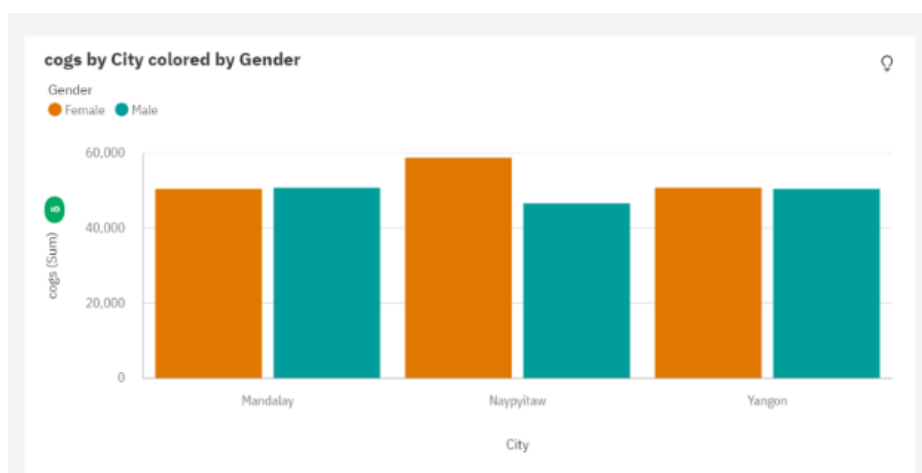
Exploration

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

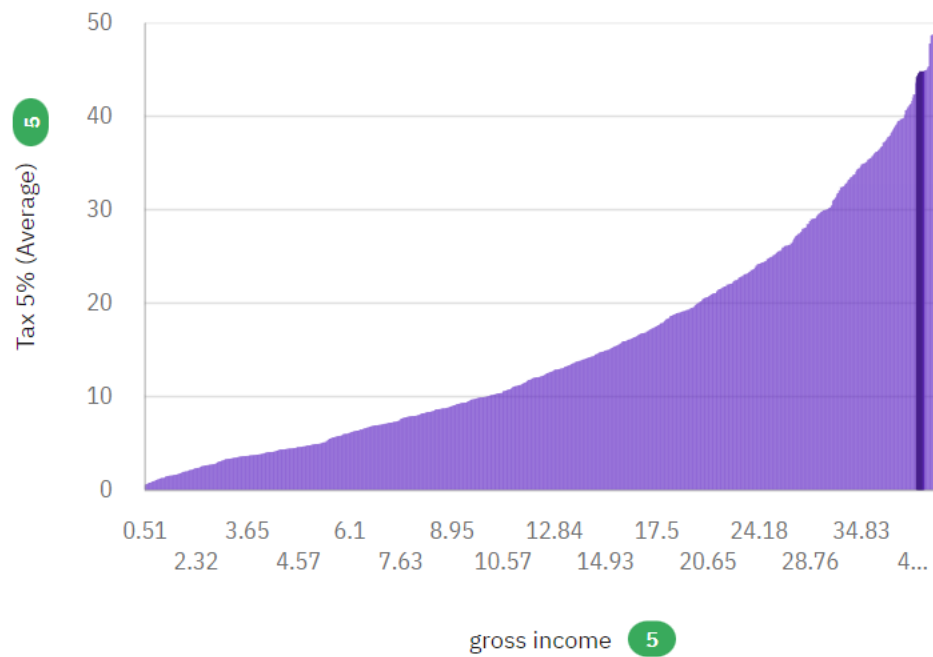


Present data

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



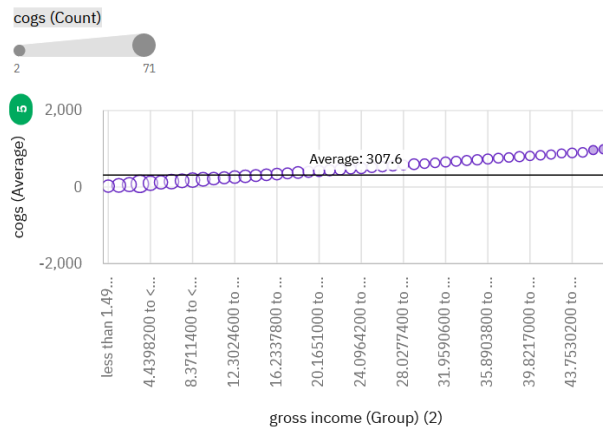
Tax 5% by gross income



cogs and Rating for City regions



gross income (Group) (2) by cogs sized by cogs



Details

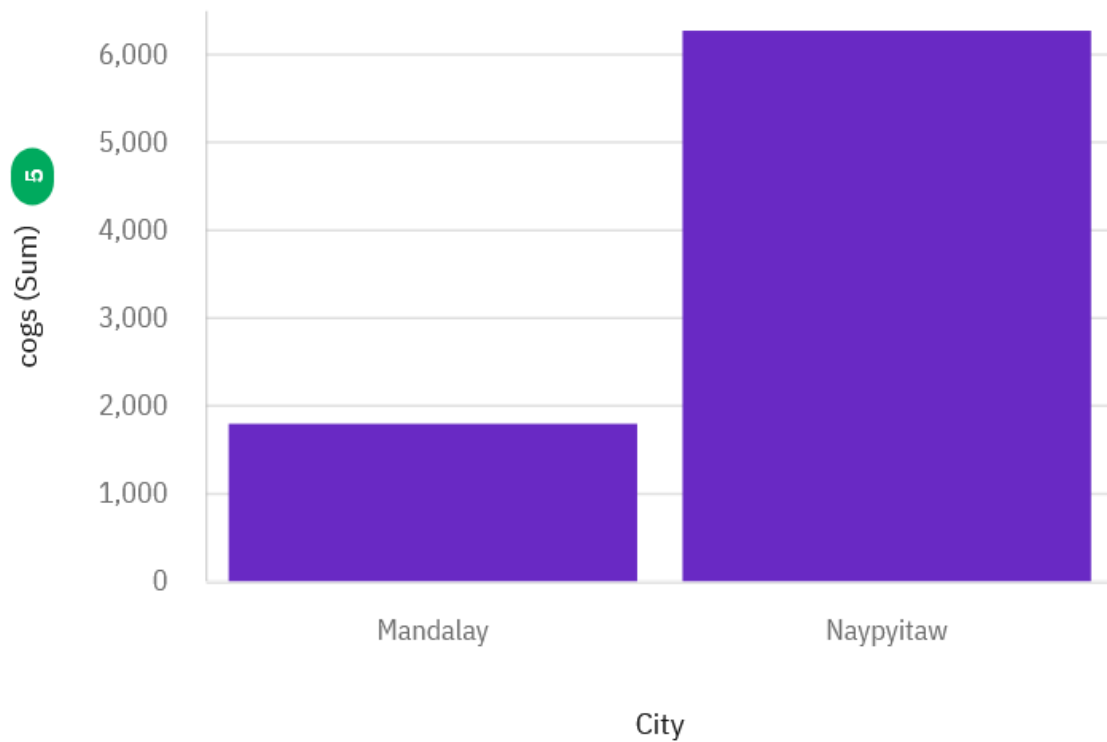
Over all values of **gross income (Group) (2)**, the average of **cogs** is 307.6.

The average values of **cogs** range from 20.77, occurring when **gross income (Group) (2)** is less than 1.4913300, to 981.8, when **gross income (Group) (2)** is 48.6671700 and above.

gross income (Group) (2) strongly affects **cogs** (100%).

cogs is unusually high when **gross income (Group) (2)** is 48.6671700 and above and 47.6843400 to < 48.6671700.

cogs by City



Total by City colored by Payment



Details

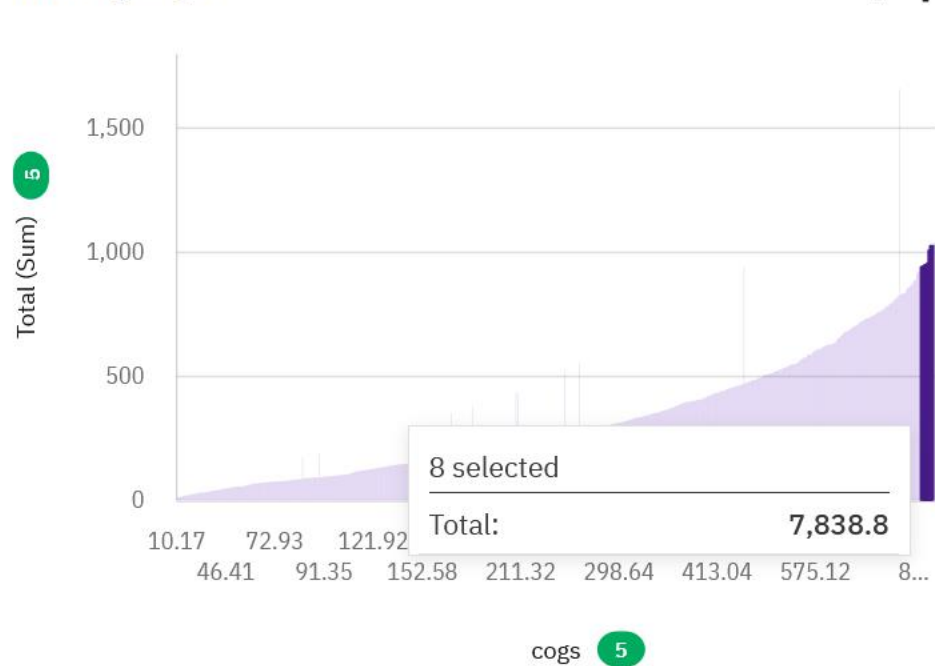
Over all **cities** and **payments**, the sum of **Total** is nearly 323 thousand.

The summed values of **Total** range from over 30 thousand to over 43 thousand.

For **Total**, the most significant values of **Payment** are Cash and Ewallet, whose respective **Total** values add up to over 222 thousand, or 68.8 % of the total.

For **Total**, the most significant value of **City** is Naypyitaw, whose respective **Total** values add up to nearly 111 thousand, or 34.2 % of the total.

Total by cogs



Result:

Thus data exploration and visualization has been performed successfully,