

Data Analytics Assignment 1

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Problem Statement:

We have been given a set of growth data for three branches of a supermarket, spanning over three months. The market competition is intense, especially in densely populated areas. Our task is to prepare and analyze the dataset by uploading it to Cognos Analytics, eliminating any unnecessary columns, building a data module, and exploring and visualizing the data in various ways.

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

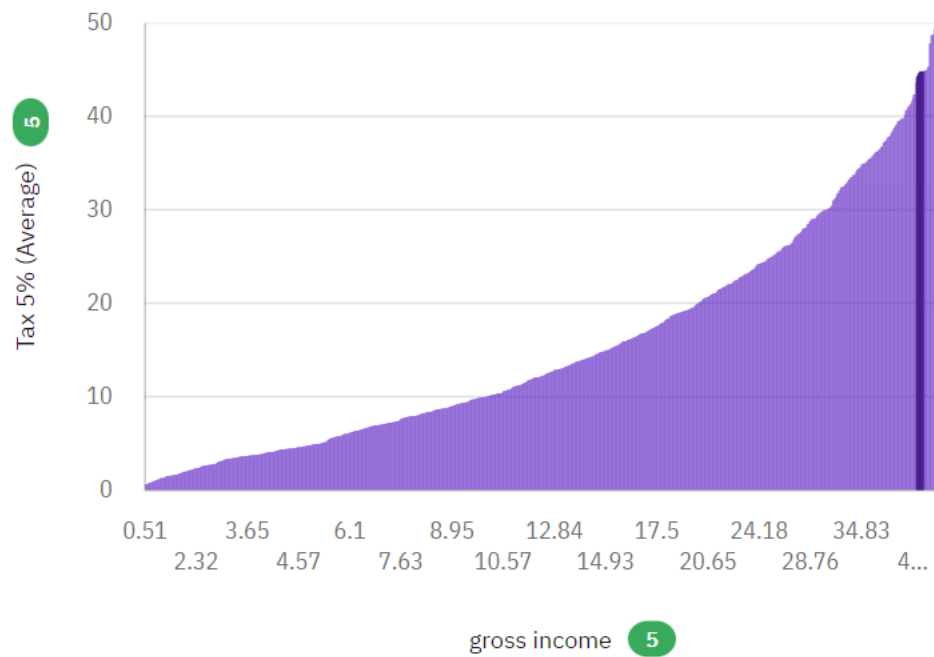
Quickly find unbiased answers by identifying trends in your data with d...



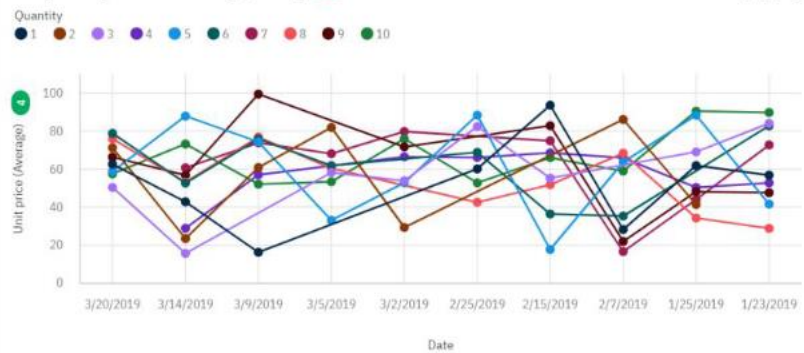
Present data

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

Tax 5% by gross income



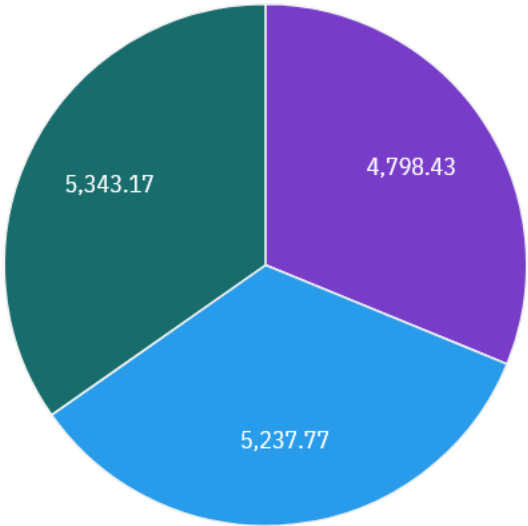
Unit price by Date colored by Quantity



gross income by Payment 5

Payment

Credit card Ewallet Cash



Explore data relationships

supermarket_sales - Sheet1.csv

Reset to original

Search Total x Edit diagram

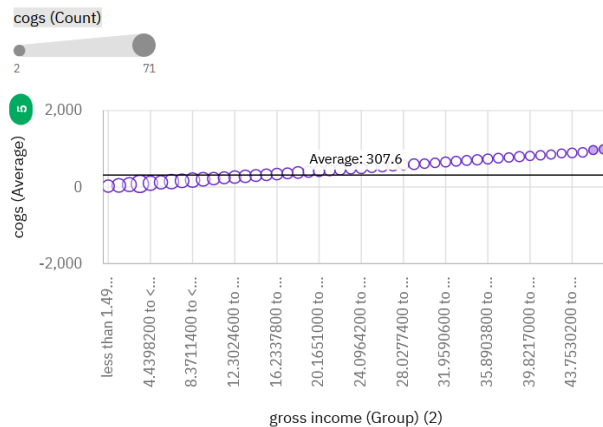


Select single or multiple nodes to see visualizations.

Relationship diagram ⓘ

10% 100%

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



Details

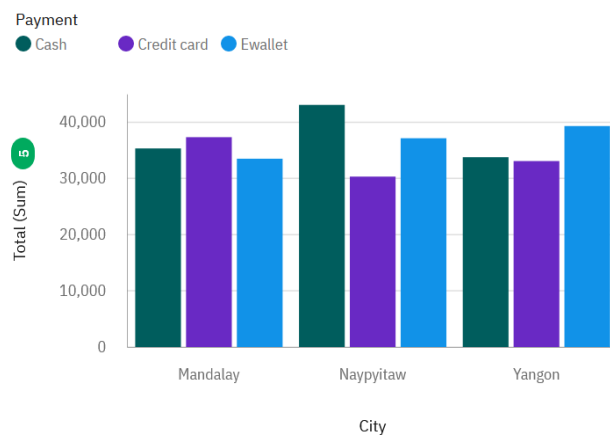
Over all values of **gross income (Group) (2)**, the average of **cogs** is 307.6.

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.

Total by City colored by Payment



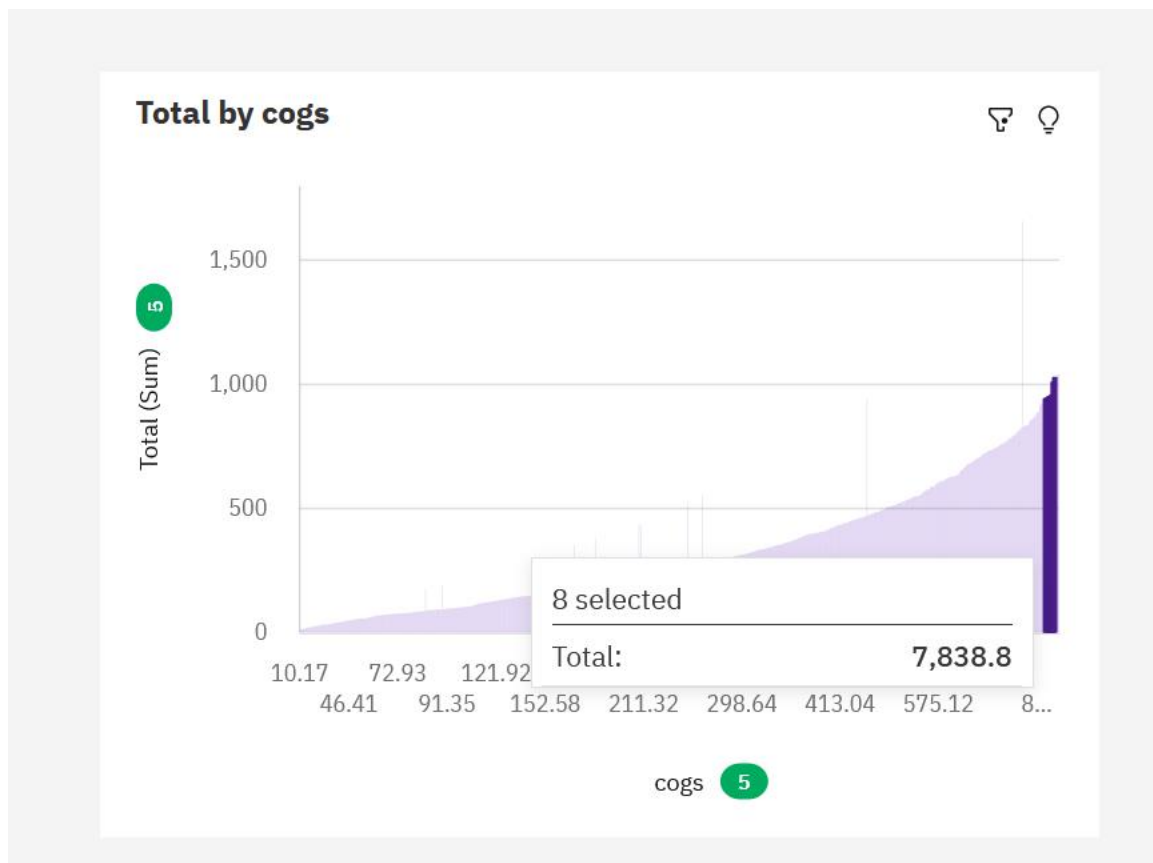
Details

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.



Result:

Thus data exploration and visualization has been performed successfully,