SM&RTINTERNZ EXTERNSHIP



DATA ANALYTICS WITH IBM COGNOS ANALYTICS

ASSIGNMENT 1

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DATASET MODIFICATIONS

For the given dataset, before beginning with the visualizations, I have modified the table by deleting some attributes and modifying the others. Given below are the details for the same :

1. Deletion

- a) *Tax*: Since the tax is 5% for all the products, I have removed the tax attribute and added the final tax value in the total attribute and renamed it Total (inc. 5% Tax).
- b) *City*: Additionally, since each of the 3 branches directed to only 3 cities each, I have removed this attribute in order to reduce redundancy.

2. Modification

a) *Date*: The date attribute has been divided into Months and Day of the week for easier visualization for weekly and monthly data.

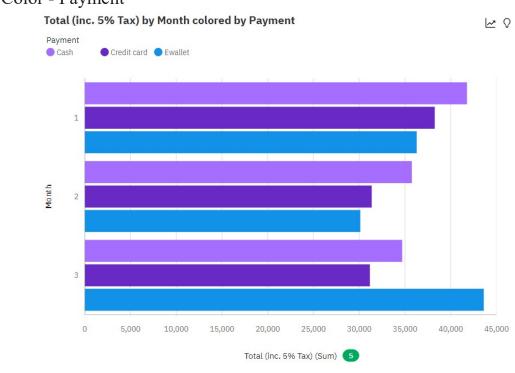
VISUALIZATIONS

1. Bar Chart for Total income by Month for different Payment Types

Bars - Month

Length - Total (inc. 5% Tax)

Color - Payment



2. Pie Chart for the amount of products sold per product type for different payment types

Segments - Product Line Size - Quantity Repeat (column) - Payment

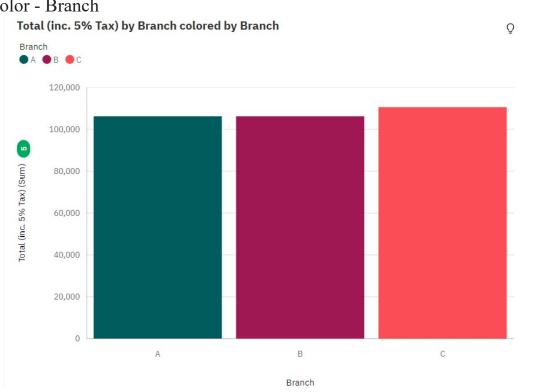


3. Column Chart for each branch's total revenue

Bars - Branch

Length - Total (inc. 5% Tax)

Color - Branch

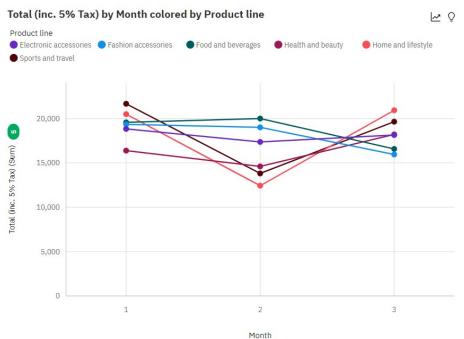


4. Line Chart for Total (inc. 5% Tax) for each Month segregated by Product line

x axis - Month

y axis - Total (inc. 5% Tax)

Color - Product Line



5. Area Chart for Gross Income by all Payment Types

x axis - Payment

y axis - Gross Income

Color - Payment

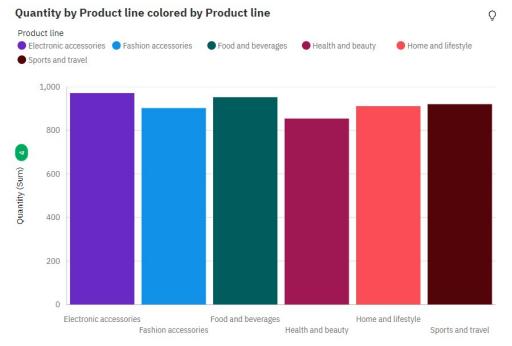


6. Column Chart for Quantity of items sold segregated by Product line

Bars - Product Line

Length - Quantity

Color - Product Line



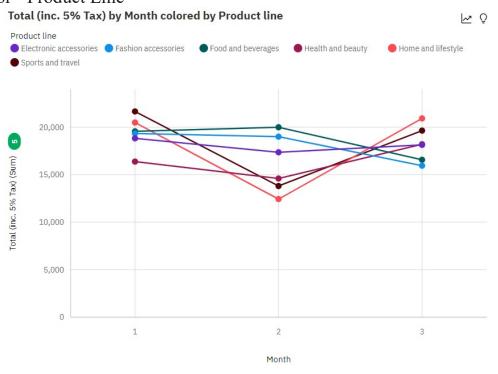
Product line

7. Line Chart for Total (inc. 5% Tax) by Month segregated by Product line

x axis - Month

y axis - Total (inc. 5% Tax)

Color - Product Line



8. Hierarchy Bubble Chart for all Product lines sized by their resp. gross income

Bubbles - Product Line

Size - Gross Income

Color - Product Line

Product line hierarchy colored by Product line and sized by gross income 5





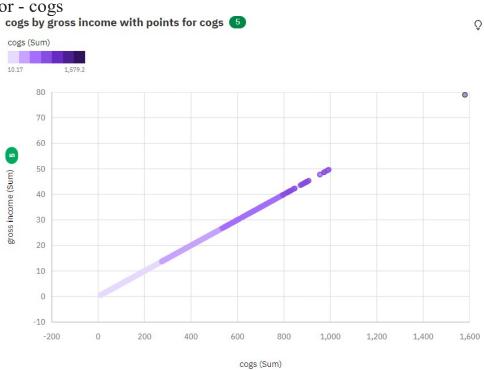
9. Scatter Plot for cogs by Gross Income

Point - cogs

x axis - cogs

y axis - Gross Income

Color - cogs

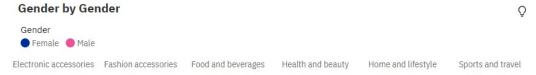


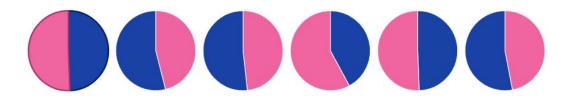
10. Pie Chart for Gender wise purchase of different products

Segments - Gender

Size - Gender

Repeat (column) - Product Line





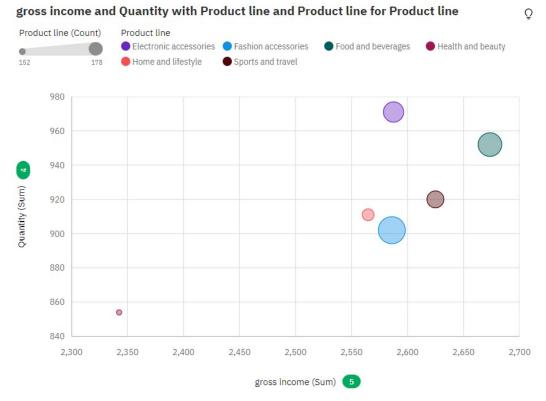
11. Bubble Chart for Gross Income and Quantity segregated by Product line

Points - Product Line

x axis - Gross Income

y axis - Quantity

Size - Product Line



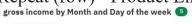
12. Heat Map for Gross Income by Month and Day of the week for each product

Rows - Month

Columns - Day of the week

Heat - Gross Income

Repeat (row) - Product Line





13. Scatter Plot for comparing cogs and Gross Income for all the Products

x axis - cogs

y axis - Gross Income

Color - Product Line

