

Long Term Virtual Internship – Data Analytics using Tableau

Assignment – 02

Pre-Requisites:

Open Tableau Student → Connect Excel “super market.csv”

1.Prepare Donut Chart

Step – 01: Create a New Sheet and Renamed as “Donut Chart”

Step – 02: Drag Product line-columns select only one

Step – 03: Click Marks card -Select Pie from dropdown- Drag

- Product line → Colour
- Total → Angle
- Total → Label

Step – 04: Create → Calculated Field Name it: Donut Enter formula: 0 Click OK

Step – 05: Drag Donut → Rows (twice) (So Donut appears two times in Rows)

- Right-click on second Donut → Select Dual Axis
- Right-click again → Synchronize Axis

Step – 06: Format Inner Circle (Hole) First Marks Card (Outer Pie) On Marks(Donut) - First one:

o Type = Pie o Product line → Colour

o Total → Angle

o Total → Label o Increase Size On Second Marks Card (Inner Circle) - Click Second Marks (Donut) Set:

o Type = Pie o Remove all fields

o Drag Donut → Angle

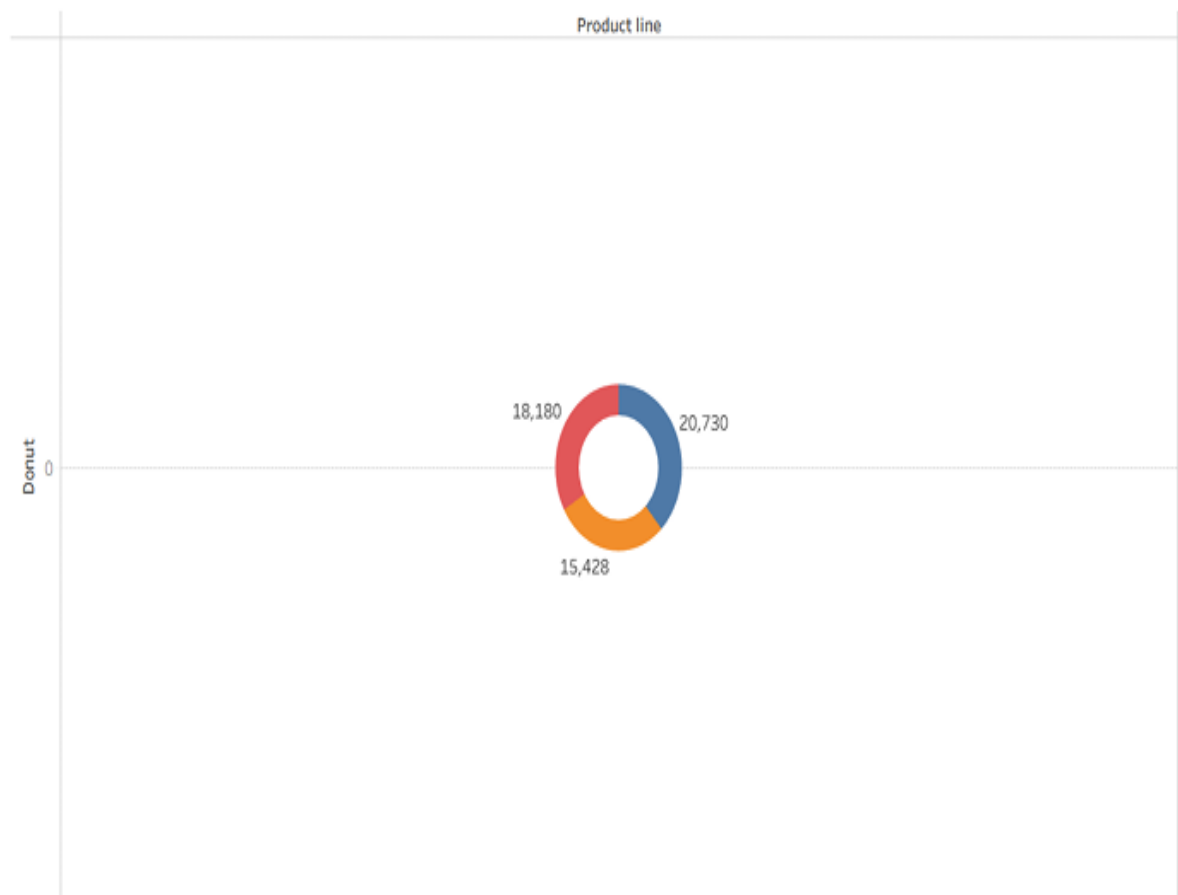
o Colour → White (or background colour)

o Reduce Size

Step – 07: Drag payment to colours

Output:

Donut chart



2.Prepare Area Chart:

Step – 01: Create a New Sheet and Renamed as “Area Chart”

Step – 02: Drag Date → Columns shelf -Click the drop-down on Date- Select Month (Continuous)

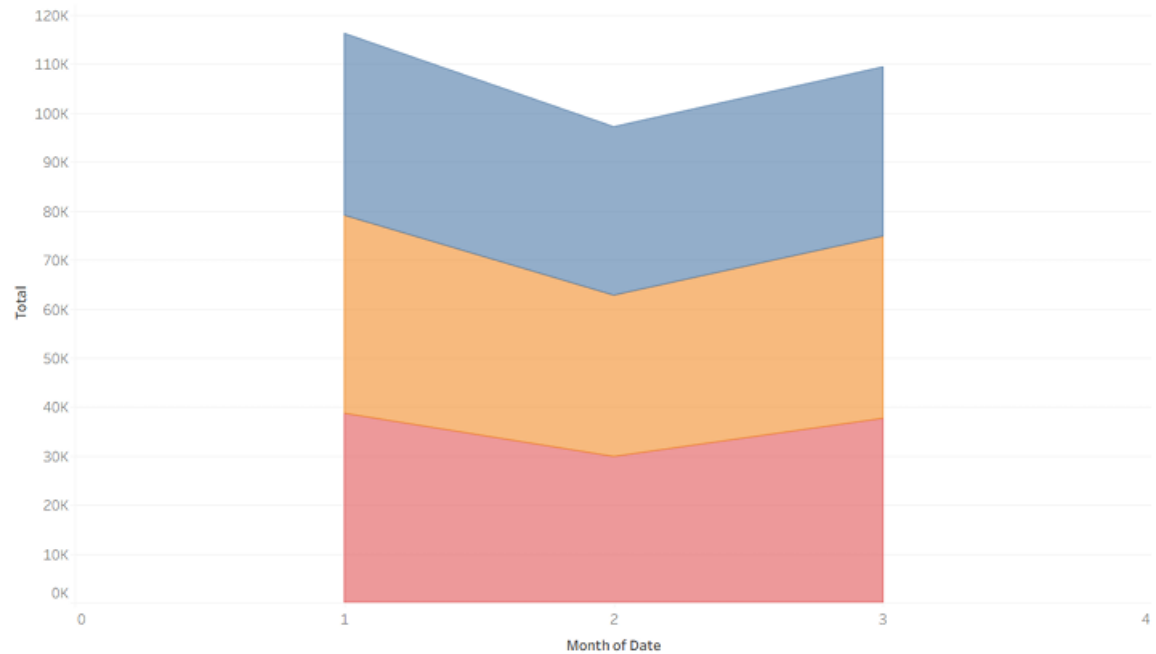
Step-03: Drag Total → Rows shelf

Step-04: Click Show Me (top right) Select Area Chart

Step-05: Drag city → Colour (in Marks card)

Output:

Area chart



3.Prepare Text Table:

Step – 01: Create a New Sheet and Renamed as “Text Table”

Step – 02: On the right side, find Show Me. Click the Text Table (Pivot Table) icon

Step – 03: Drag Date → Columns shelf

Step – 04: From the Data Pane (left side), drag these fields to Rows

- Invoice ID
- Branch
- City
- Customer type
- Gender
- Product line
- Date
- Time
- Payments

Step – 05: Drag Measures to Columns (or Text)

Step – 06: Now drag these Measures: To Columns:

- Unit price
- Quantity
- Tax
- Total
- COGS
- Gross income
- Gross margin percentage
- Rating

Step – 07: Set Marks Type to Text -On Marks Card, click the dropdown-Select Text

Output:

Text Table

Branch	Product line					
	Electronic accessories	Fashion accessories	Food and beverages	Health and beauty	Home and lifestyle	Sports and travel
	No Measure Value	No Measure Value	No Measure Value	No Measure Value	No Measure Value	No Measure Value
A	18,317	16,333	17,163	12,598	22,417	19,373
B	17,051	16,413	15,215	19,981	17,549	19,988
C	18,969	21,560	23,767	16,615	13,896	15,762

4.Prepare Highlighted Table:

Step – 01: Create a New Sheet and Renamed as “Highlighted Table”

Step – 02: Drag Product line → Rows

Step – 03: Drag Branch → Columns

Step – 04: Drag Total → Marks → Colour On the Marks card, Click the drop-down → Select Square

Step – 05: In Marks card → Size Drag slider to the right until squares fill the cells.

Step – 06: Drag Total → Label -Click Label → Show Mark Labels

Step – 07: Click Colour → Edit Colours Choose a colour palette -Click Apply → OK

Output:

Highlighted Table

		Product line					
Branch		Electronic accessories	Fashion accessories	Food and beverages	Health and beauty	Home and lifestyle	Sports and travel
A	1	18,317	16,333	17,163	12,598	22,417	19,373
	2	17,051	16,413	15,215	19,981	17,549	19,988
C	3	18,969	21,560	23,767	16,615	13,896	15,762

5.Prepare Word Cloud:

Step – 01: Create a New Sheet and Renamed as “Word Cloud”

Step – 02: In the Marks card -Click the dropdown-Select Text.

Step – 03: Drag Product line → Drop on Text Click Text → Increase font size

Step – 04: Drag Total → Drop on Size -Click Size → Increase slider

Step – 05: Drag Total → Drop on Colour

Output:

Word Cloud

54,338
Electronic accessories
54,306
Fashion accessories
56,145
Food and beverages

6.Prepare Funnel Chart:

Step – 01: Create a New Sheet and Renamed as “Funnel Chart”

Step – 02: On Marks Card-Select Bar

Step – 03: Drag Measure Values → Columns-Edit filters

✓ SUM(Total)

✓ SUM(cogs)

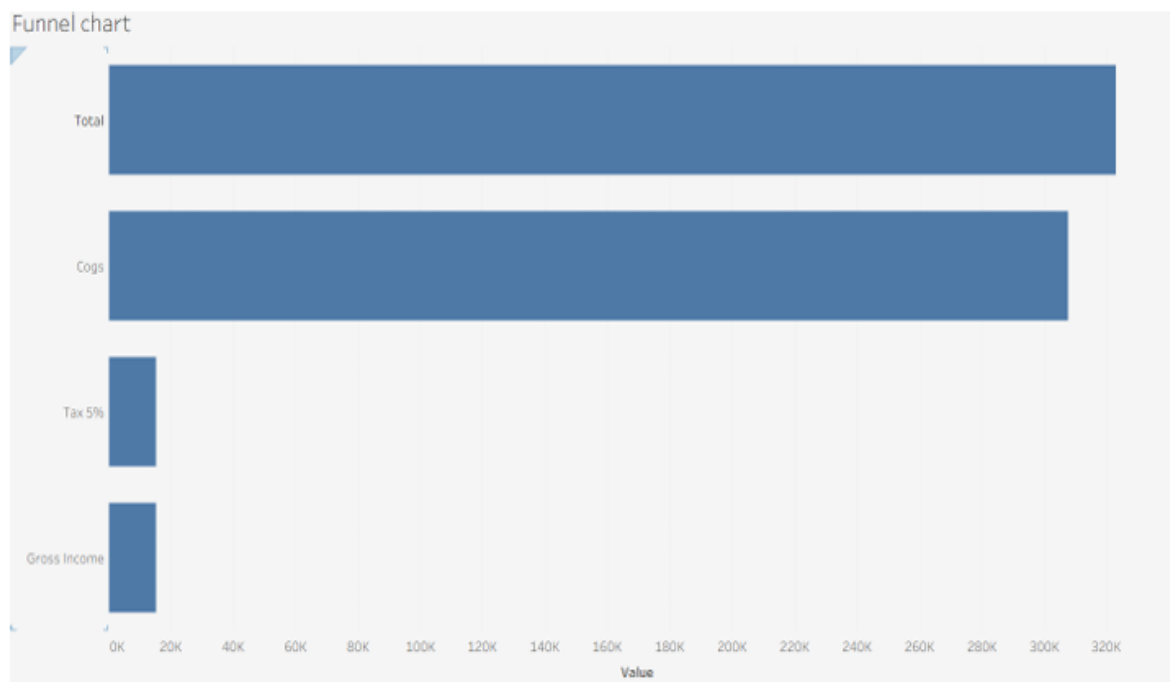
✓ SUM(Gross income)

✓ SUM(Tax)

Step – 04: Drag Measure Names→ Rows-It automatically shows in filter Click Sort → Descending (largest to smallest)

Step – 05: Right click on sheet - click on Format -Go to Format Shading-click on worksheet change colour.

Output:



7.Prepare Waterfall Chart:

Step – 01: Create a New Sheet and Renamed as “Waterfall Chart”

Step – 02: Drag Product line → Columns-Select All

Step – 03: Drag Running Total→ Rows

Step – 04: Click Show Me-Select Gantt Bar

Step – 05: Right-click → Create Calculated Field Name: Difference Formula: SUM([Total]) Click OK

Step – 06: Drag Difference → Size (Marks card)

Step – 07: Drag Difference → Colour

Output:

Waterfall chart

