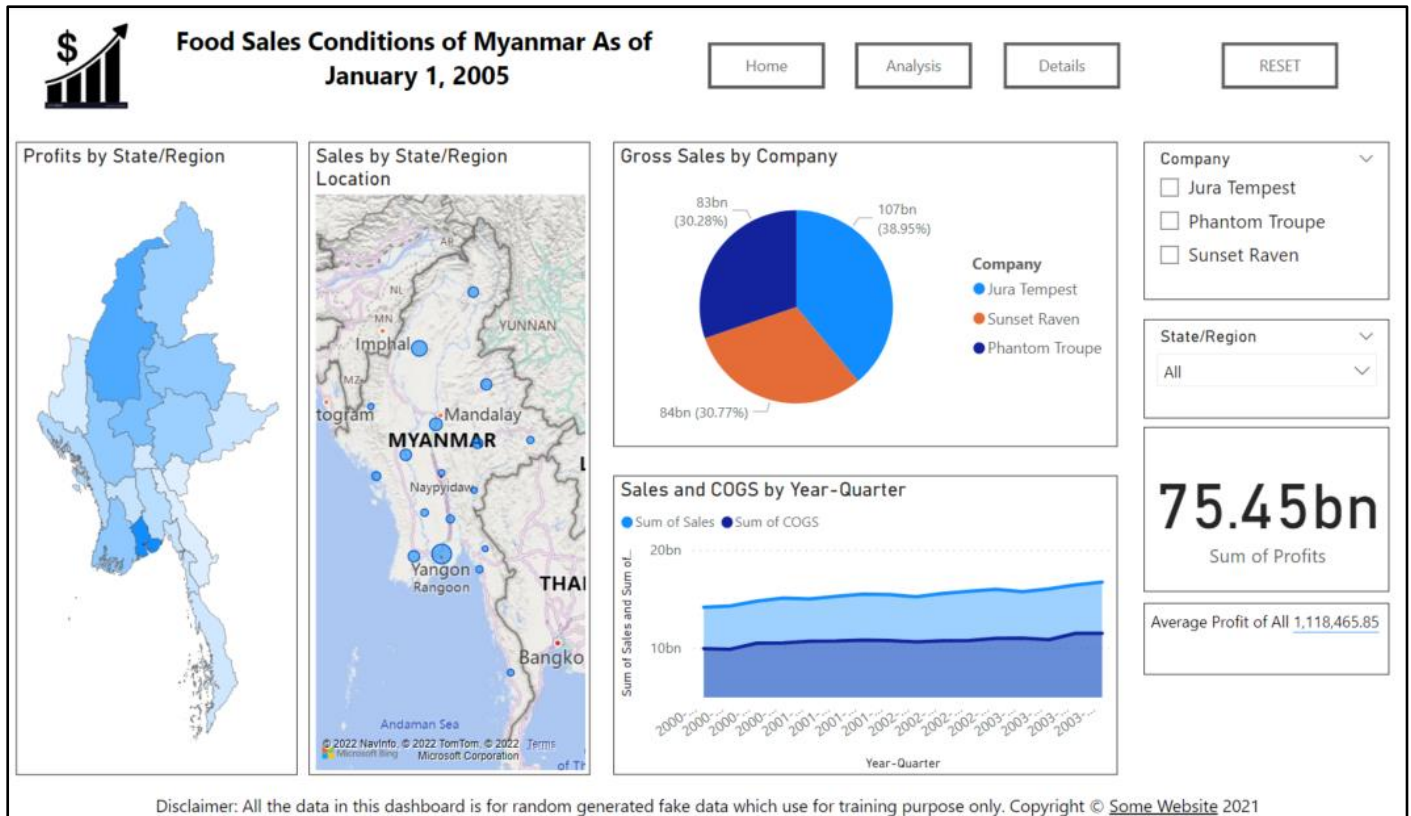
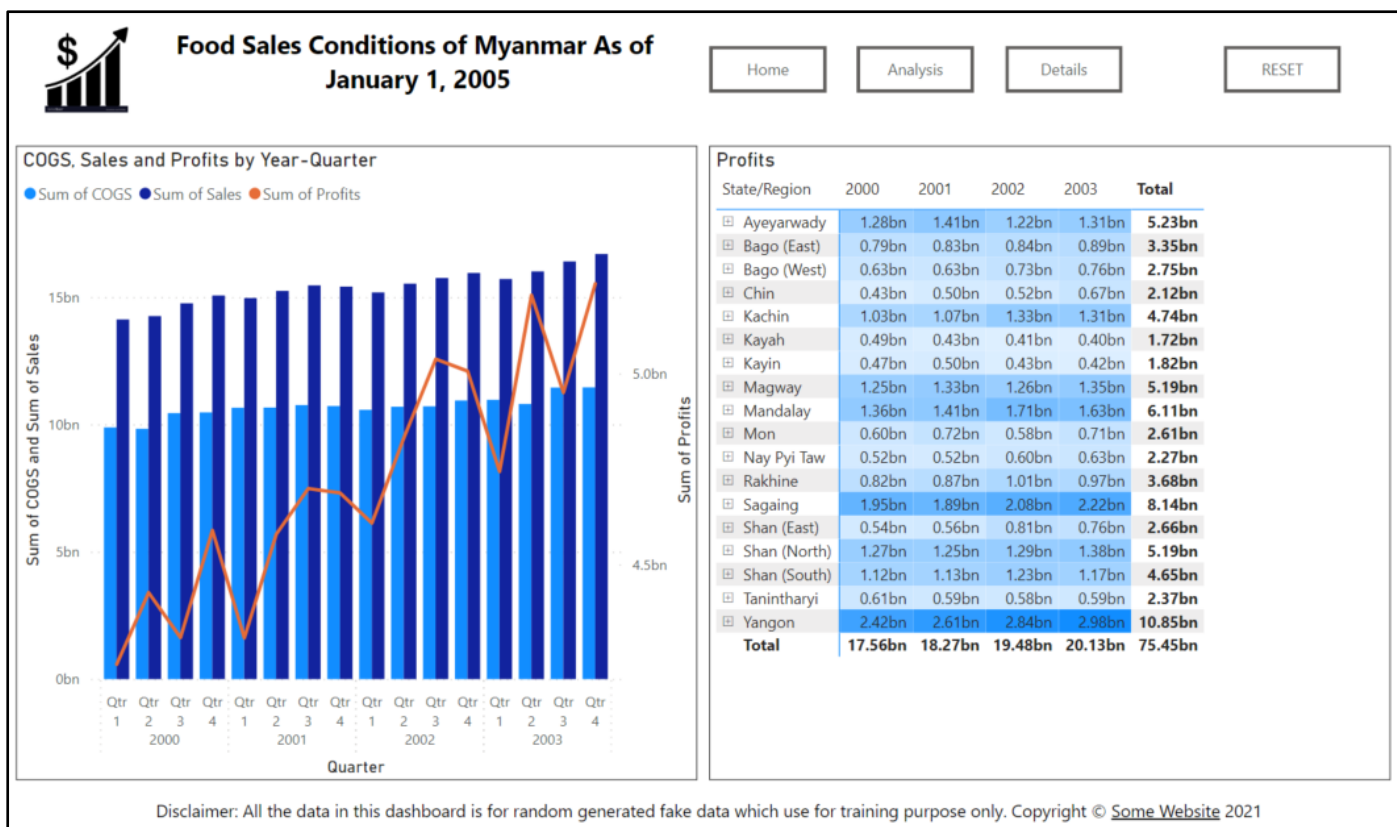
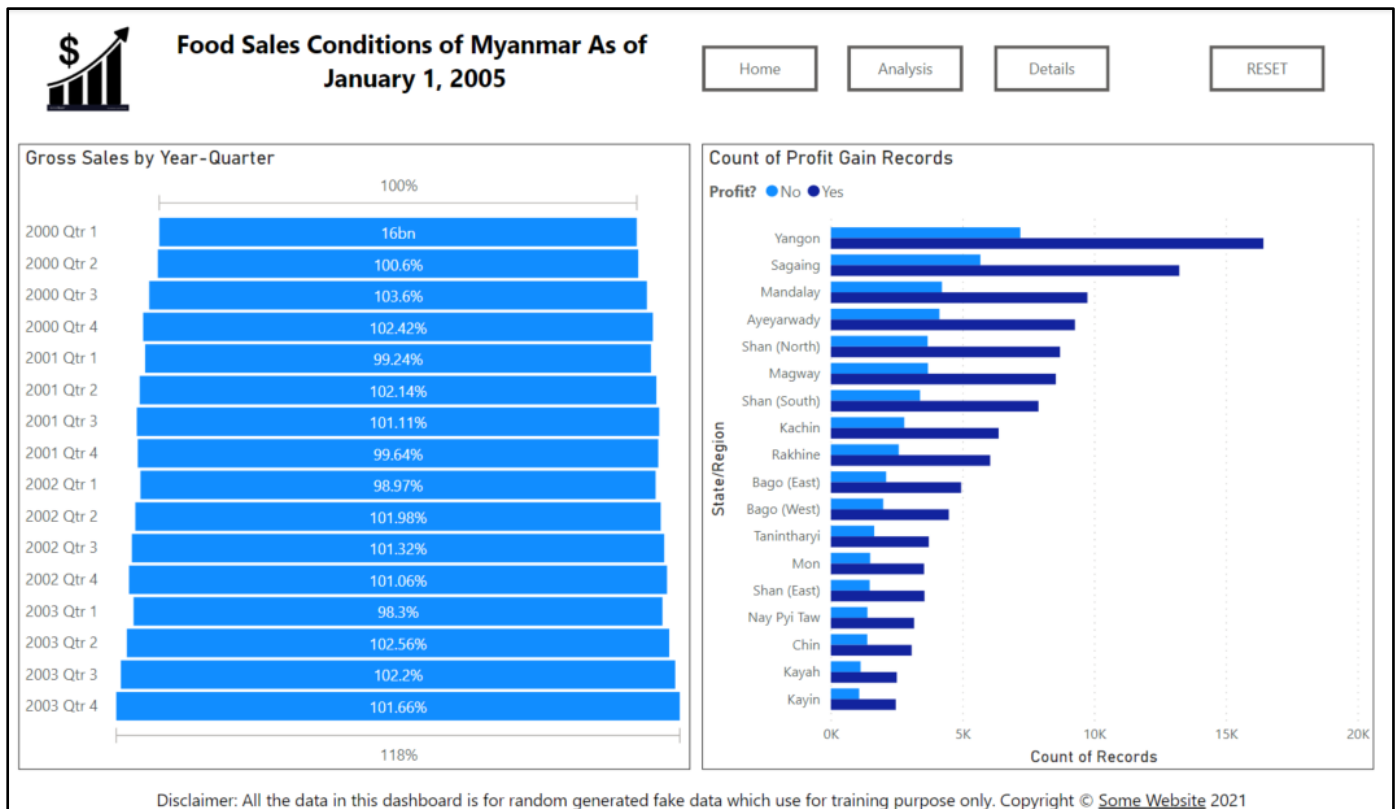


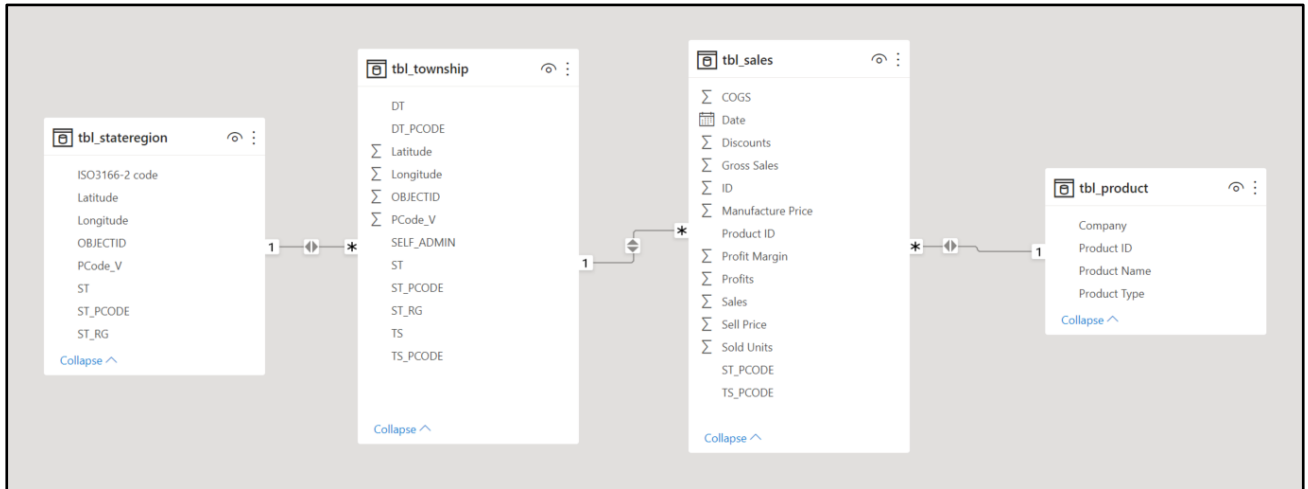
Home Page





Exercise 1

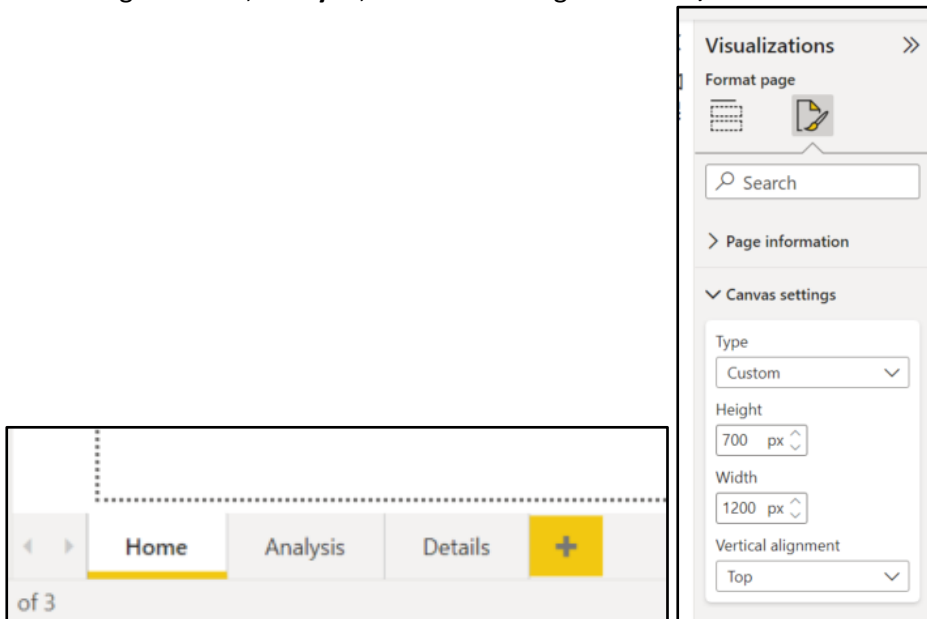
1. Open New Power BI and Save as "Food Sales Conditions of Myanmar.pbix"
2. Import excel sheets "tbl_products" "tbl_sales", "tbl_stateregion", "tbl_township" from "MIMU Power BI Training - Exercise Dataset.xlsx"
3. Check proper relationship (All Cross Filter Direction must be Both)



Manage relationships

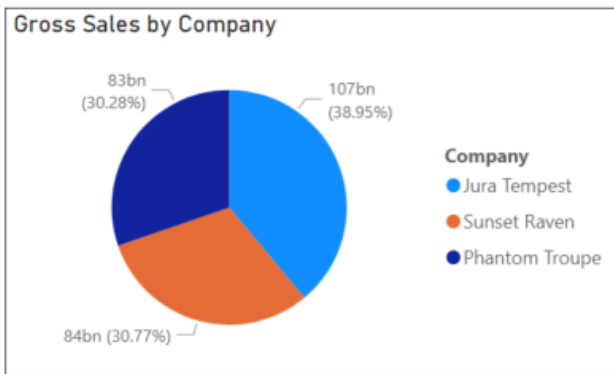
Active	From: Table (Column)	To: Table (Column)
<input checked="" type="checkbox"/>	tbl_sales (Product ID)	tbl_product (Product ID)
<input checked="" type="checkbox"/>	tbl_sales (TS_PCOTE)	tbl_township (TS_PCOTE)
<input checked="" type="checkbox"/>	tbl_township (ST_PCOTE)	tbl_stateregion (ST_PCOTE)
<input type="checkbox"/>		

4. Create Pages: Home, Analysis, Details with Page size 1200, 700



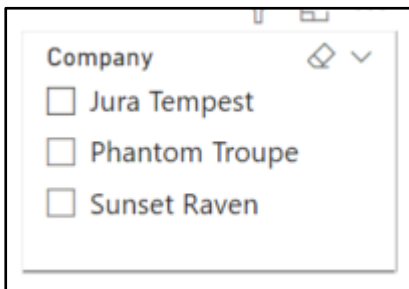
Exercise 2

1. Chart – Pie Chart



Page : Home	
Fields (Build visual)	
Legend	tbl_products > Company
Values	tbl_sales > Gross Sales
Format (Format visual)	
General > Properties > Size > Height	260
General > Properties > Size > Width	430
General > Properties > Position > Horizontal	520
General > Properties > Position > Vertical	115
General > Title > Text	Gross Sales by Company
General > Effects > Visual Border	On

2. Chart – Slicer / List Type



Page : Home	
Fields (Build visual)	
Field	tbl_product > Company
Format (Format visual)	
General > Properties > Size > Height	135
General > Properties > Size > Width	210
General > Properties > Position > Horizontal	972
General > Properties > Position > Vertical	115
General > Effects > Visual Border	On

3. Chart – Slicer / Dropdown Type



State/Region

All

Page : Home	
Fields (Build visual)	
Field	tbl_stateregion > ST (Rename to State/Region)
Format (Format visual)	
General > Properties > Size > Height	84
General > Properties > Size > Width	210
General > Properties > Position > Horizontal	972
General > Properties > Position > Vertical	266
General > Effects > Visual Border	On

Exercise 3

1. Change fields “Latitude” and “Longitude” from “tbl_stateregion” to Latitude Longitude Data Category

Properties

Fields

Format
General

Percentage format
No

Thousands separator
No

Decimal places
Auto

Advanced

Sort by column
Longitude (Default)

Data category
Longitude

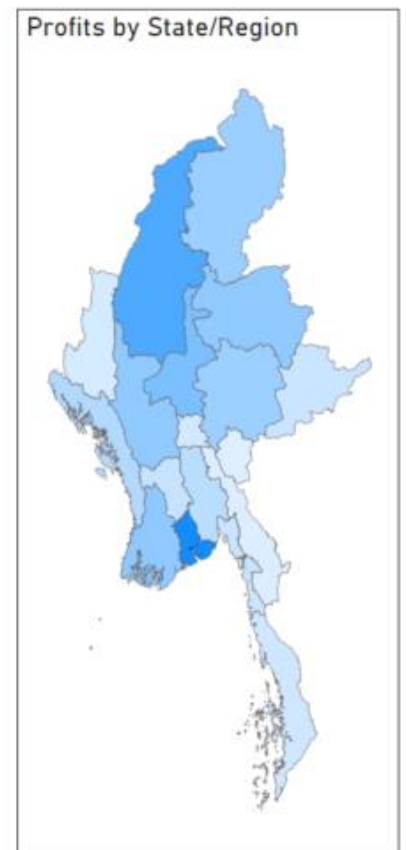
Search

tbl_product
tbl_sales
tbl_stateregion
ISO3166-2 code
Latitude
Longitude
OBJECTID
PCode_V
ST
ST_PCODE
ST_RG
tbl_township



2. Chart - Shape Map

Page : Home	
Fields (Build visual)	
Location	tbl_stateregion > ST_PCode (Rename to State/Region PCode)
Color Saturation	tbl_sales > Profits
Tooltips	tbl_stateregion > ST (Rename to State/Region Name)
Format (Format visual)	
Visual > Map Settings > Map settings > Map type	Custom map
Visual > Map Settings > Map settings > Add a map type	state_region.json
General > Properties > Size > Height	540
General > Properties > Size > Width	240
General > Properties > Position > Horizontal	10
General > Properties > Position > Vertical	115
General > Title > Text	Profits by State/Region
General > Effects > Visual Border	On



3. Chart - Map



Page : Home	
Fields (Build visual)	
Latitude	tbl_stateregion > Latitude
Longitude	tbl_stateregion > Longitude
Bubble Size	tbl_sales > Sales
Tooltips	tbl_stateregion > ST (Rename to State/Region Name)
Format (Format visual)	
General > Properties > Size > Height	540
General > Properties > Size > Width	240
General > Properties > Position > Horizontal	260
General > Properties > Position > Vertical	115
General > Title > Text	Sales by State/Region Location
General > Effects > Visual Border	On



Exercise 4

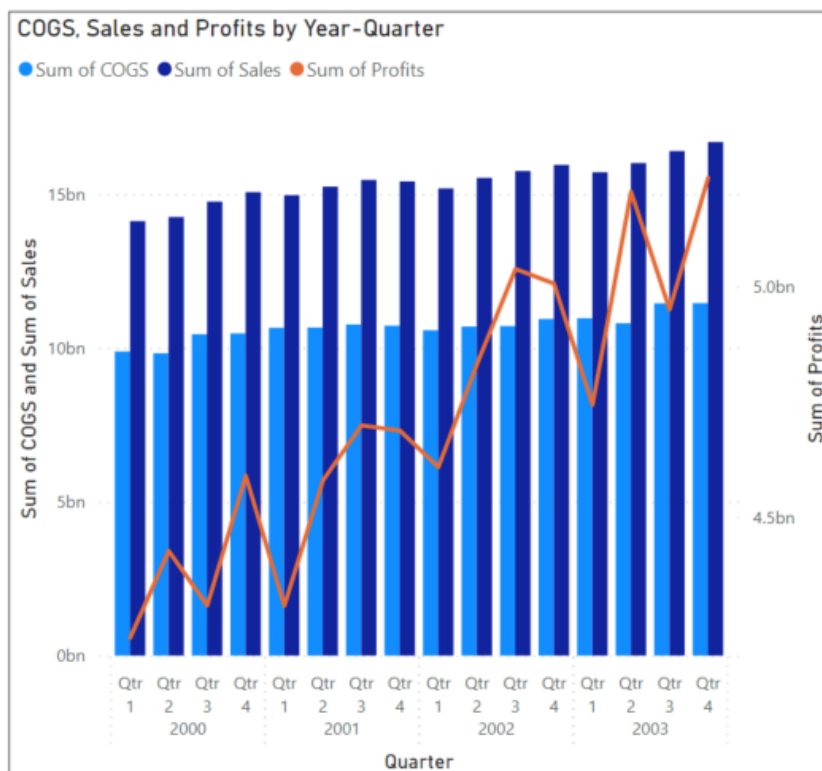
1. Chart – Matrix



Profits					
State/Region	2000	2001	2002	2003	Total
Ayeyarwady	1.28bn	1.41bn	1.22bn	1.31bn	5.23bn
Bago (East)	0.79bn	0.83bn	0.84bn	0.89bn	3.35bn
Bago (West)	0.63bn	0.63bn	0.73bn	0.76bn	2.75bn
Chin	0.43bn	0.50bn	0.52bn	0.67bn	2.12bn
Kachin	1.03bn	1.07bn	1.33bn	1.31bn	4.74bn
Kayah	0.49bn	0.43bn	0.41bn	0.40bn	1.72bn
Kayin	0.47bn	0.50bn	0.43bn	0.42bn	1.82bn
Magway	1.25bn	1.33bn	1.26bn	1.35bn	5.19bn
Mandalay	1.36bn	1.41bn	1.71bn	1.63bn	6.11bn
Mon	0.60bn	0.72bn	0.58bn	0.71bn	2.61bn
Nay Pyi Taw	0.52bn	0.52bn	0.60bn	0.63bn	2.27bn
Rakhine	0.82bn	0.87bn	1.01bn	0.97bn	3.68bn
Sagaing	1.95bn	1.89bn	2.08bn	2.22bn	8.14bn
Shan (East)	0.54bn	0.56bn	0.81bn	0.76bn	2.66bn
Shan (North)	1.27bn	1.25bn	1.29bn	1.38bn	5.19bn
Shan (South)	1.12bn	1.13bn	1.23bn	1.17bn	4.65bn
Tanintharyi	0.61bn	0.59bn	0.58bn	0.59bn	2.37bn
Yangon	2.42bn	2.61bn	2.84bn	2.98bn	10.85bn
Total	17.56bn	18.27bn	19.48bn	20.13bn	75.45bn

Page : Details	
Fields (Build visual)	
Rows	tbl_township > ST (Rename to State/Region) tbl_township > DT (Rename to Districts) tbl_township > TS (Rename to Townships)
Columns	tbl_sales > Date > Date hierarchy > Year
Values	tbl_sales > Profits
Format (Format visual)	
Visual > Specific column > Values > Display units	Billions
Visual > Cell elements > Background color	On
General > Properties > Size > Height	540
General > Properties > Size > Width	580
General > Properties > Position > Horizontal	600
General > Properties > Position > Vertical	115
General > Title	On
General > Title > Text	Profits
General > Effects > Visual Border	On

2. Chart – Line and Clustered Column Chart



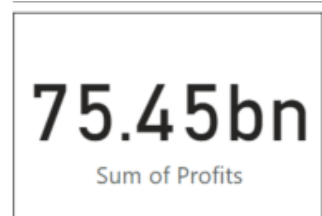
Page : Details	
Fields (Build visual)	
X-Axis	tbl_sales > Date > Date Hierarchy > Year tbl_sales > Date > Date Hierarchy > Quarter
Column y-axis	tbl_sales > COGS tbl_sales > Sales
Line y-axis	tbl_sales > Profits
Format (Format visual)	
General > Properties > Size > Height	540
General > Properties > Size > Width	580
General > Properties > Position > Horizontal	10
General > Properties > Position > Vertical	115
General > Title > Text	COGS, Sales and Profits by Year-Quarter
General > Effects > Visual Border	On

Exercise 5

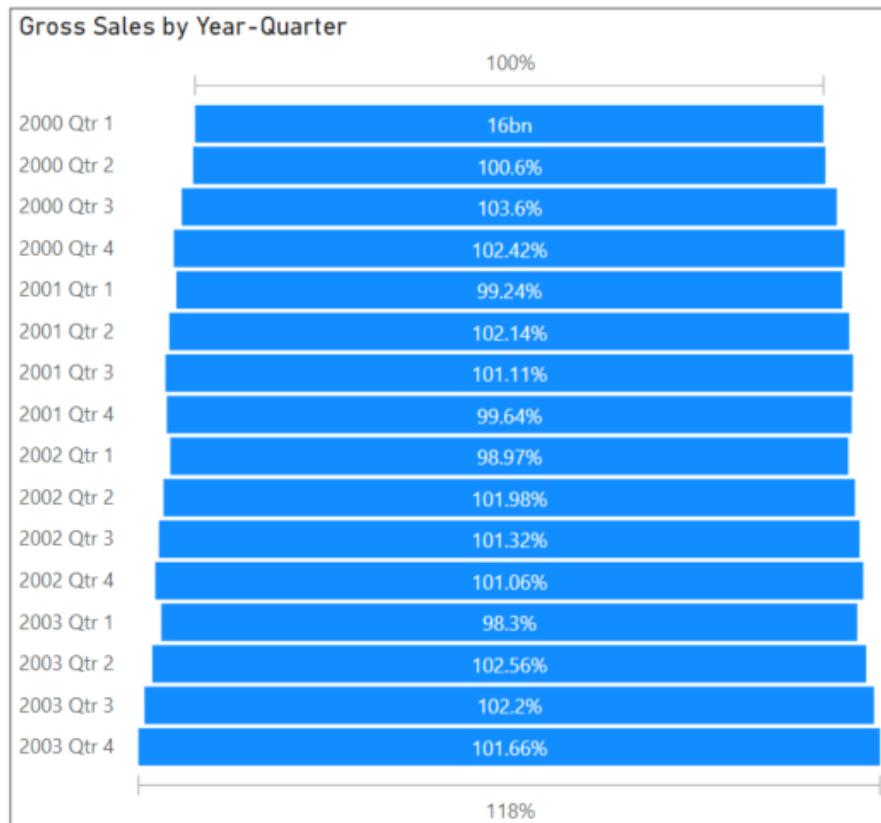
1. Chart – Card



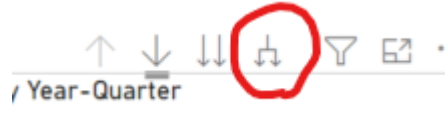
Page : Home	
Fields (Build visual)	
Fields	tbl_sales > Profits
Format (Format visual)	
General > Properties > Size > Height	141
General > Properties > Size > Width	210
General > Properties > Position > Horizontal	972
General > Properties > Position > Vertical	359
General > Effects > Visual Border	On



2. Chart – Funnel



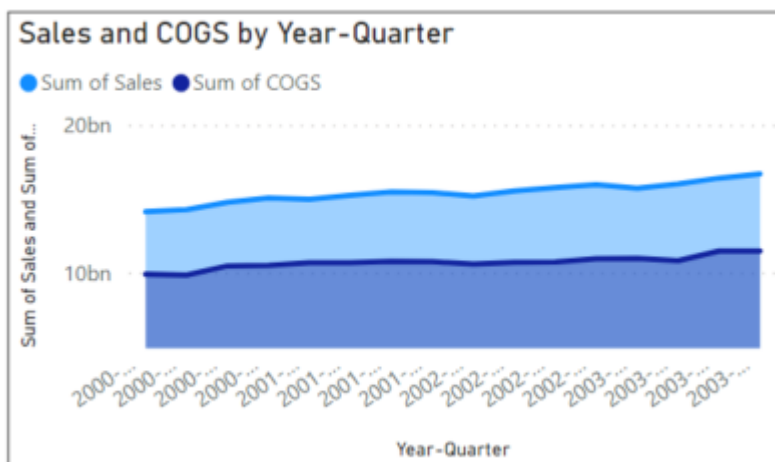
Page : Analysis	
Fields (Build visual)	
Category	tbl_sales > Date > Date Hierarchy > Year tbl_sales > Date > Date Hierarchy > Quarter
Values	tbl_sales > Gross Sales
Format (Format visual)	
Visual > Data Labels > Options > Position > Label contents	Percent of Previous
General > Properties > Size > Height	540

General > Properties > Size > Width	580
General > Properties > Position > Horizontal	10
General > Properties > Position > Vertical	115
General > Title > Text	Gross Sales by Year-Quarter
General > Effects > Visual Border	On
Press Circle one to see all	

3. Create DAX Column at tbl_sales table

```
Year-Quarter = CONCATENATE (Year (tbl_sales[Date]), FORMAT (QUARTER (tbl_sales[Date]), "-00"))
```

4. Chart – Area Chart



Page : Home	
Fields (Build visual)	
X-axis	tbl_sales > Year-Quarter
Y-axis	tbl_sales > Sales tbl_sales > COGS
Format (Format visual)	
General > Properties > Size > Height	255
General > Properties > Size > Width	430
General > Properties > Position > Horizontal	520
General > Properties > Position > Vertical	400
General > Title > Text	Sales and COGS by Year-Quarter
General > Effects > Visual Border	On
Sorting	Year-Quarter > Sort Ascending

5. Create DAX Measure at tbl_sales table

```
Total Average = AVERAGEX (FILTER (ALL (tbl_sales), RELATED (tbl_product [Product Type]) = "Foods"), tbl_sales [Profits])
```

6. Put Text Box at Home Page Under Sum of Profits Card

Average Profit of All
1,118,465.85

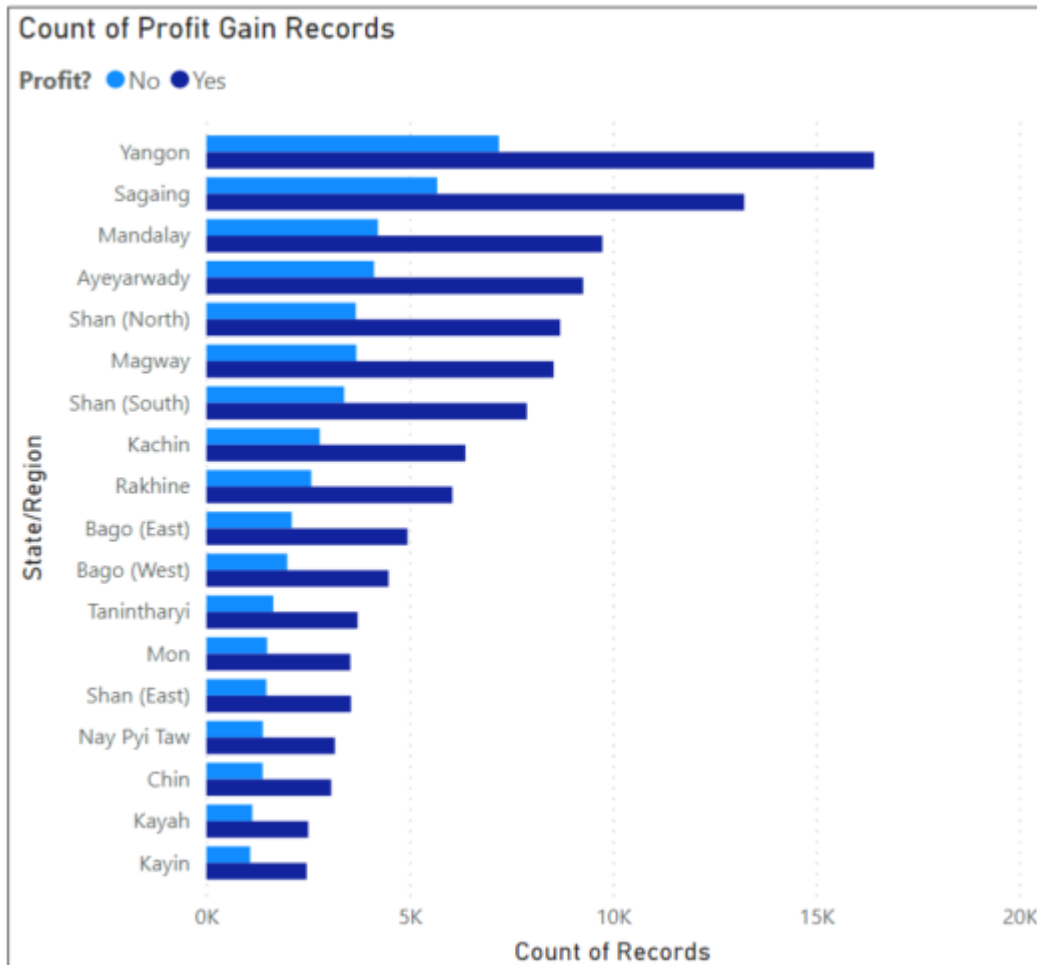
Text : "Average Profit of All <Value: total average>"

7. Create DAX Column at tbl_sales table

```
Profit? = IF(tbl_sales[Profits]>0,"Yes","No")
```




8. Chart – Clustered Bar Chart



Page : Analysis	
Fields (Build visual)	
Y-axis	tbl_stateregion > ST (Rename to State/Region)
Legend	tbl_sales > Profit?
X-axis	Tbl_sales > ID (Rename to Count of Records)
Format (Format visual)	
General > Properties > Size > Height	540
General > Properties > Size > Width	580
General > Properties > Position > Horizontal	600
General > Properties > Position > Vertical	115
General > Title > Text	Count of Profit Gain Records
General > Effects > Visual Border	On

Exercise 6



Food Sales Conditions of Myanmar As of
January 1, 2005

HomeAnalysisDetailsRESET

Year-Quarter

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1. Insert Sales Icon.jpg
2. Put Text box with “Food Sales Conditions of Myanmar As of January 1, 2005”
3. Put 3 buttons with mouseover effect which for Different pages with action for page navigation
4. Put 1 button with mouseover effect with reset capability
5. Put footer note with text “Disclaimer: All the data in this dashboard is for random generated fake data which use for training purpose only. Copyright © Some Website 2021”
6. Put hyperlinks to “Some Website” for <https://www.google.com>
7. Copy image, textbox, buttons, footer note to all pages
8. Adjust page navigations for each button
9. Syncs Slicers for all pages
10. Publish to Power BI Service and produce link to view from public