



DASHBOARD USING EXCEL

Charts and Graphs

Abstract

Detailed analysis of raw data and conversion into meaningful data. steps included in the process. Brief explanation of snapshots and their analysis.

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DASHBOARD USING EXCEL

Overview:

In order to analyse data in Excel I chose the file of following file. The raw data in excel file has no meaning. In order to convert raw data, we have to convert into meaningful data.

I'm going to draw Dashboard and focus on the major KPI's

<https://www.contextures.com/xlsampleddata01.html#food>

Steps involved (Storytelling) :

I changed (Unit price and quantity into decimal format) two types in decimal number

The data was not clean. I have to define the data types of each data and manipulate in the meaning full format.

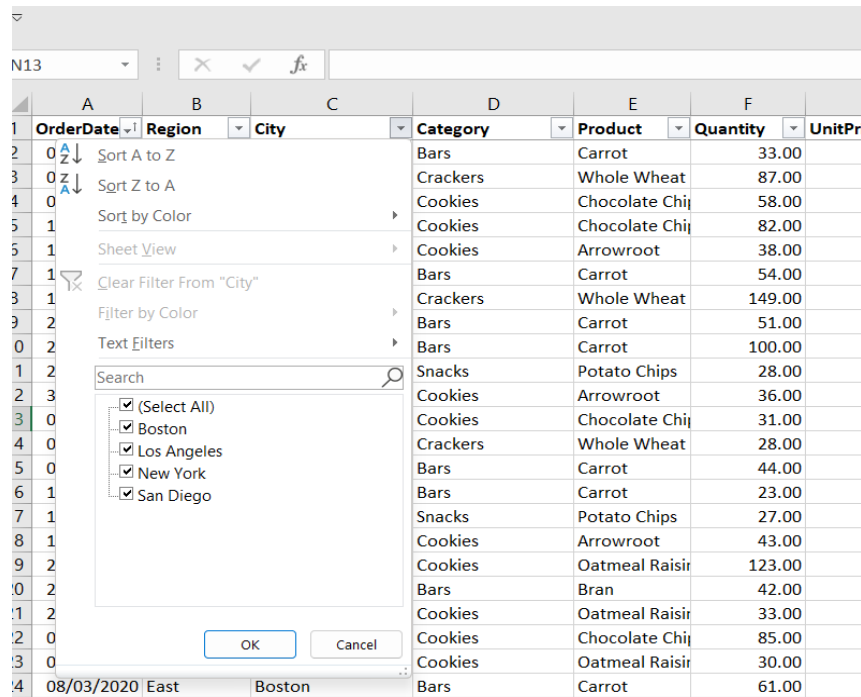
I select the Excel file Sample data food sales. This has eight columns and 245 rows.

Detailed Analysis:

- I analysed the data in columns and study the relationships among different columns.
- I cleaned the data by describing the data format types in correct format.
- I analyse different charts to ascertain the different charts and represent the report

View in Excel (Ascending and Descending order):

This Column/table has four cities as shown. We can easily see sort them out in Ascending and Descending form. The purpose of going through to these processes is to convert raw data into meaningful data in shapes of different



	A	B	C	D	E	F	G
	OrderDate	Region	City	Category	Product	Quantity	UnitPri
2	0			Bars	Carrot	33.00	
3	0			Crackers	Whole Wheat	87.00	
4	0			Cookies	Chocolate Chi	58.00	
5	1			Cookies	Chocolate Chi	82.00	
5	1			Cookies	Arrowroot	38.00	
7	1			Bars	Carrot	54.00	
8	1			Crackers	Whole Wheat	149.00	
9	2			Bars	Carrot	51.00	
10	2			Bars	Carrot	100.00	
11	2			Snacks	Potato Chips	28.00	
12	3			Cookies	Arrowroot	36.00	
13	0			Cookies	Chocolate Chi	31.00	
14	0			Crackers	Whole Wheat	28.00	
15	0			Bars	Carrot	44.00	
16	1			Bars	Carrot	23.00	
17	1			Snacks	Potato Chips	27.00	
18	1			Cookies	Arrowroot	43.00	
19	2			Cookies	Oatmeal Raisin	123.00	
20	2			Bars	Bran	42.00	
21	2			Cookies	Oatmeal Raisin	33.00	
22	0			Cookies	Chocolate Chi	85.00	
23	0			Cookies	Oatmeal Raisin	30.00	
24	08/03/2020	East	Boston	Bars	Carrot	61.00	

graphs and charts.

Pivot analysis in Excel (Major KPI's):

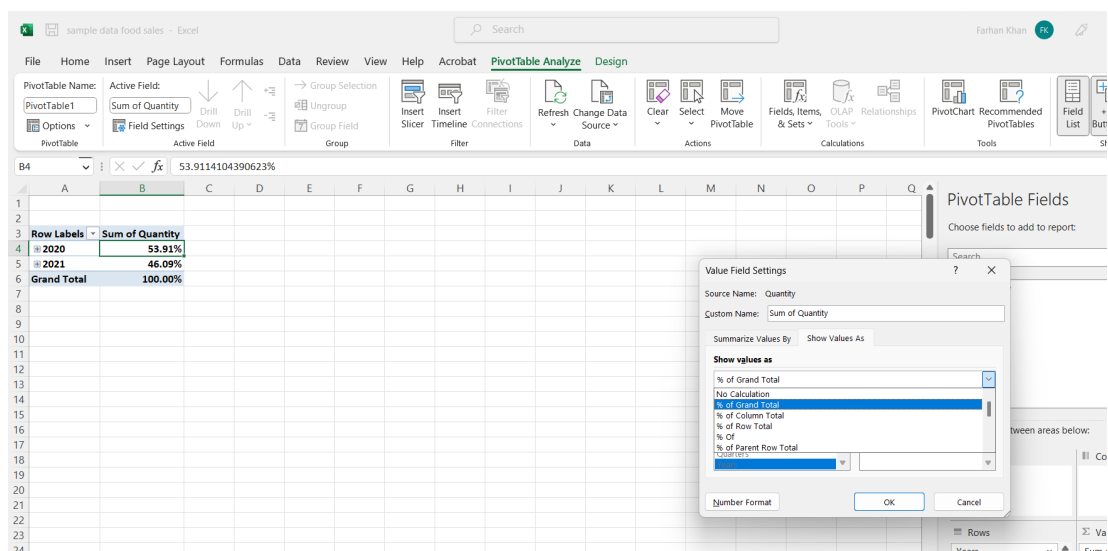


Figure 1 this figure shows the Percentage of Sum of Quantity. Presentation of graphs (KPI's) is much better in Percentages. Convert the numbers into Percentages is the important factor. It is much easier to analyse, rather than number.

Measurements in Percentages (Major KPI's):

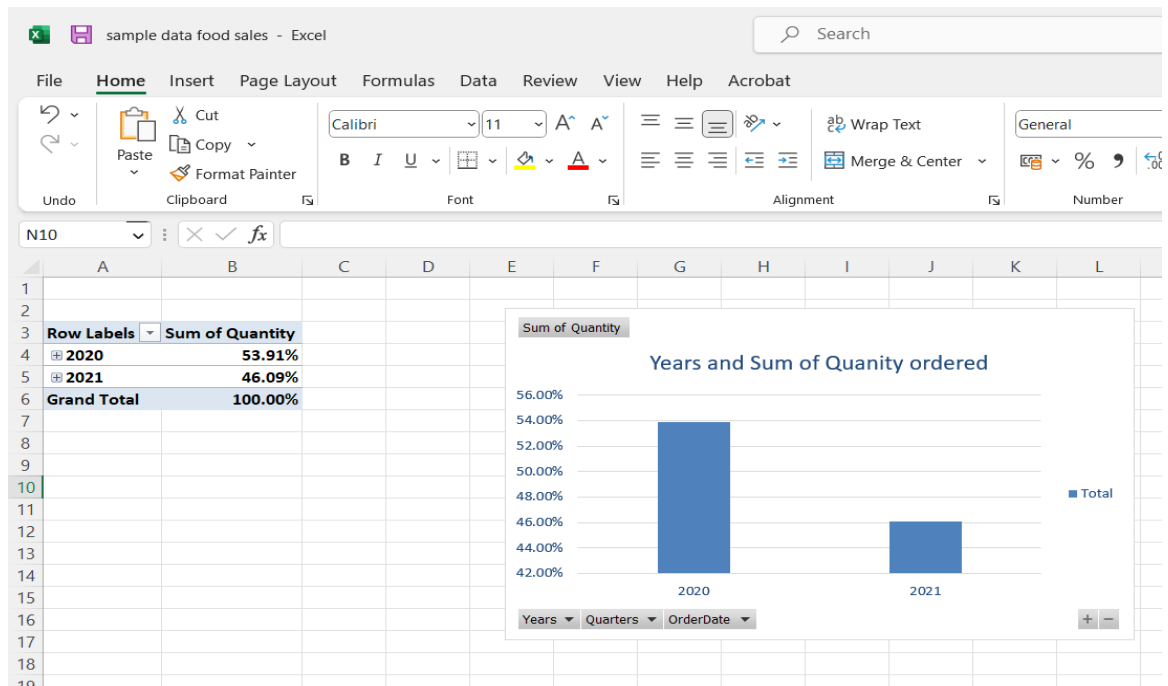


Figure 2 this figure shows the Bar chart . From Numbers to Percentage. The percentage makes it clear for better understanding of Data Visualisations.

Line chart in Percentages format (Amount ordered):

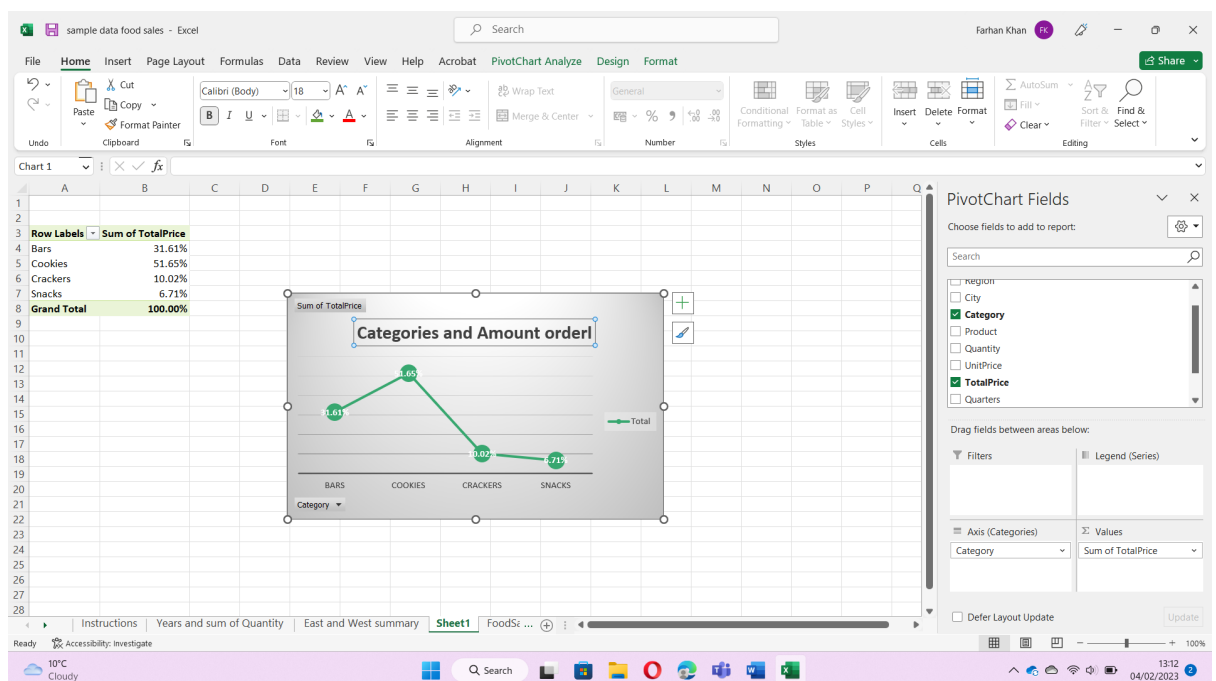


Figure 3 This is line chart in percentage format. This has four major Category **Bars, Cookies, Crackers and Snacks**. This is now easily sense in the shape Line chart.

Conclusion on Products and Categories:

Cookies are the most ordered among the four categories, it seems to be most popular. Snacks are the least order in the categories.

3-D Graph (Years 2020 and 2021) (Use of Slicer):

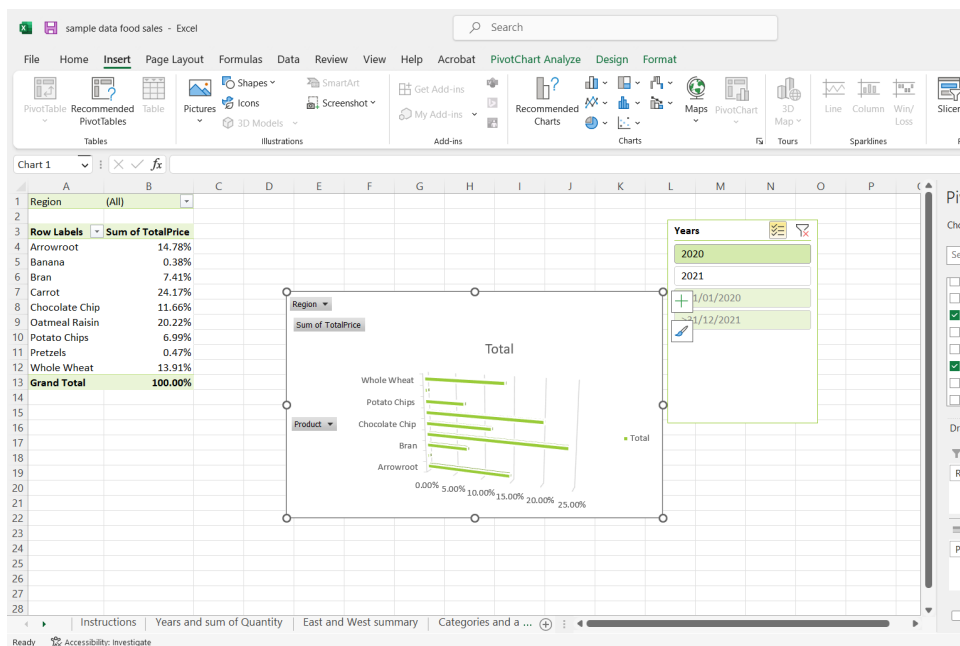


Figure 4 . In this graph I use 3-D Graph for more elaboration of graphs and their representation. Moreover, I use Slicer here in year. I slice the years in 2020 and 2021. We can clearly see that 2020 products are selected in the graph.

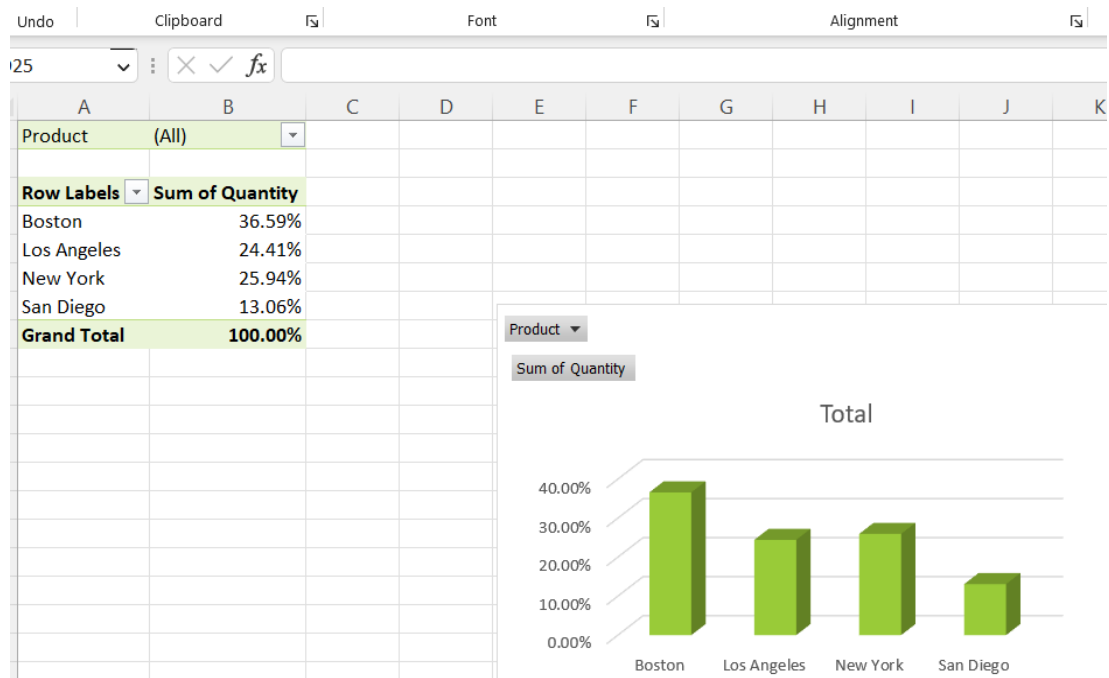


Figure 5 The Biggest sale is in Boston city. The chart indicates. The percentage shows on the vertical axis.

Use of Slicer in Excel:

Slicer is an advanced form of filtering.

After Right click on Filter we can choose various options e.g. Report connection etc,

If we select East Region. The report will show East region.

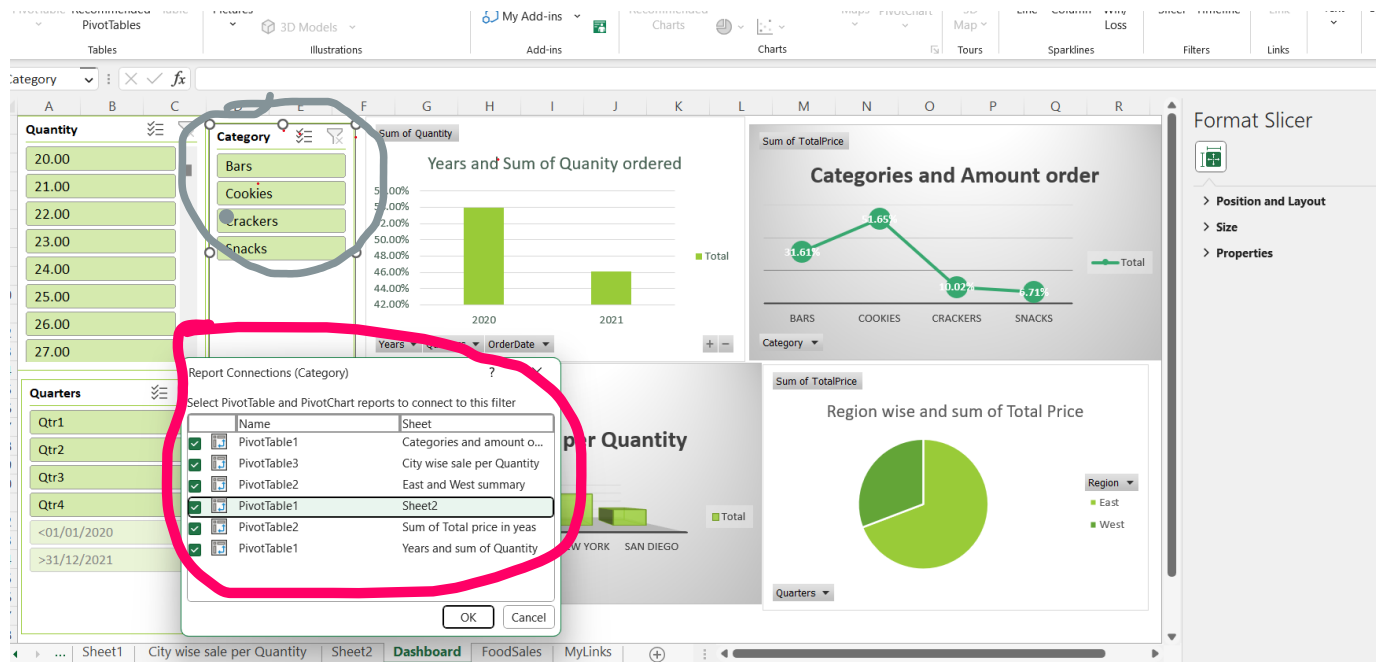


Figure 6 . In this diagram Report connection is used and all the Pivot tables and Pivot charts are interconnected. I used three KPI's in order to see the report. These slicers are extremely useful in order to filter data and (Quarter wise, Sale wise, Region wise, Sale wise etc. **The highlighted in red shows that it uses for Report connection in all the Excel sheets used in the same file.** The highlighted area in Grey shows ---How it uses in a filter format-----

Learning Outcome:

- Comprehensive use of Excel and Power Query
- Better understanding of sorting (Ascending and Descending order)
- Pivot Tables and Charts
- Different types of Data Cleaning
- Data validation.
- Data transformation and Manipulations.

- Graphs and their uses.
- Use of Slicers
- Report connections
- Use of Percentages into the graphs and their current procedure

Dashboard of Food Sales :

This is Static Dashboard in Excel. In this Dashboard anybody can analyze different types of data e.g

- Selection of Quarter shows the quarter report in the graphs
- Selection of City shows all the cities in dashboard.
- This is achieved by use of Slicer in Excel
- With the help of chart and graph it is easy to put proposal and recommendation at every stage of report.

