

Architecture Design

E-commerce Dashboard

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What Is an Excel Dashboard?

The Excel Dashboard provides an overview of metrics and other data points in one place.

In simple terms, dashboards are visual representations of data.

They mostly consist of charts and graphs, thereby grabbing the user's attention. Looking at raw Excel data can be boring. Creating a Dashboard in Excel can help you interpret the data by giving an advanced level overview of the same.

To provide you with a better understanding, look at the following dataset that we will be
using in this article to demonstrate how to create Excel Dashboards. The dataset comprises
the buying and selling of goods and services, or the transmitting of funds or data, over an
electronic network, primarily the internet. These business transactions occur either as
business-to-business (B2B), business-to-consumer (B2C), consumer-to-consumer or
consumer-to-business.

You can download the dataset by clicking on this <u>link</u>.

Take a look at the gist of the dataset below.

1 A	В	С	D	E		F	G	Н	I	J		K	
	Order Date	Ship Date	Aging -		→ F	Product Category	Product -	-	Quantity ~	Discount -		ofit 🔻	Ship
AU-2015-1	09-11-2015	17-11-2015	8	First Class	F	Auto & Accessories	Car Media Players	\$ 140.0	2	0.05	\$	46.0	\$
AU-2015-2	30-06-2015	02-07-2015	2	First Class	P	Auto & Accessories	Car Speakers	\$ 211.0	3	0.03	\$ 1	L12.0	\$
AU-2015-3	05-12-2015	13-12-2015	8	First Class	F	Auto & Accessories	Car Body Covers	\$ 117.0	5	0.01	\$	31.2	\$
AU-2015-4	09-05-2015	16-05-2015	7	First Class	A	Auto & Accessories	Car & Bike Care	\$ 118.0	2	0.05	\$	26.2	\$
AU-2015-5	09-07-2015	18-07-2015	9	First Class	F	Auto & Accessories	Tyre	\$ 250.0	1	0.04	\$ 1	160.0	\$
AU-2015-6	25-02-2015	05-03-2015	8	First Class	F	Auto & Accessories	Bike Tyres	\$ 72.0	3	0.04	\$	24.0	\$
AU-2015-7	09-04-2015	10-04-2015	1	First Class	F	Auto & Accessories	Car Mat	\$ 54.0	1	0.05	\$	54.0	\$
AU-2015-8	30-03-2015	06-04-2015	7	First Class	F	Auto & Accessories	Car Seat Covers	\$ 114.0	5	0.02	\$	22.6	\$
AU-2015-9	09-02-2015	16-02-2015	7	First Class	F	Auto & Accessories	Car Pillow & Neck Rest	\$ 231.0	5	0.03	\$ 1	116.4	\$
AU-2015-10	21-04-2015	01-05-2015	10	First Class	P	Auto & Accessories	Car Media Players	\$ 140.0	2	0.02	\$	54.4	\$
AU-2015-11	16-11-2015	26-11-2015	10	First Class	F	Auto & Accessories	Car Speakers	\$ 211.0	4	0.01	\$ 1	122.6	\$
AU-2015-12	01-09-2015	02-09-2015	1	First Class	F	Auto & Accessories	Car Body Covers	\$ 117.0	4	0.04	\$	18.3	\$
AU-2015-13	09-07-2015	16-07-2015	7	First Class	F	Auto & Accessories	Car & Bike Care	\$ 118.0	1	0.02	\$	35.6	\$
AU-2015-14	22-07-2015	27-07-2015	5	First Class	F	Auto & Accessories	Tyre	\$ 250.0	3	0.04	\$ 1	L40.0	\$
AU-2015-15	12-10-2015	21-10-2015	9	First Class	F	Auto & Accessories	Bike Tyres	\$ 72.0	4	0.01	\$	18.0	\$
AU-2015-16	23-02-2015	05-03-2015	10	First Class	F	Auto & Accessories	Car Mat	\$ 54.0	2	0.01	\$	27.0	\$
AU-2015-17	04-05-2015	08-05-2015	4	First Class	F	Auto & Accessories	Car Seat Covers	\$ 114.0	2	0.05	\$	22.6	\$
AU-2015-18	12-06-2015	19-06-2015	7	First Class	F	Auto & Accessories	Car Pillow & Neck Rest	\$ 231.0	5	0.05	\$	93.3	\$
AU-2015-19	13-05-2015	20-05-2015	7	First Class	F	Auto & Accessories	Car Media Players	\$ 140.0	2	0.05	\$	46.0	\$
AU-2015-20	27-07-2015	02-08-2015	6	First Class	1	Auto & Accessories	Car Speakers	\$ 211.0	2	0.02	\$ 1	122.6	\$
AU-2015-21	09-12-2015	13-12-2015	4	First Class	P	Auto & Accessories	Car Body Covers	\$ 117.0	5	0.01	\$	31.2	\$
AU-2015-22	09-02-2015	16-02-2015	7	First Class	I	Auto & Accessories	Car & Bike Care	\$ 118.0	2	0.03	\$	30.9	\$
Δ11-2015-23	20-07-2015	26-07-2015	- 6	First Class		Auto & Accessories	Tyre	\$ 250.0	Δ	0.02	\$ 1	150 O	¢



Now, look at the Dashboard below that depicts the sales based on various product categories.



Steps to Build an Excel Dashboard

Listed below are the steps that need to be followed to help you understand how to build an Excel Dashboard easily.

Understanding Data Set

To create dashboards, we first need to explore the dataset in our Excel workbook.

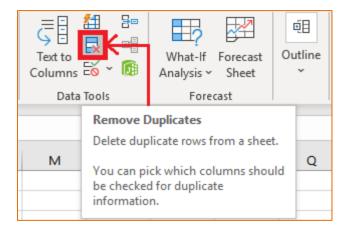
Brand Name, Company Name, Disease Medical Use, Invoice date, Company code, Ship-to-Country, Ship-to-Country Full Name, Sold-to party-Code, Sold-to party Country, Sold-to party, Country Full Name, Delivery Plant, Payment terms, External Agent, Sales quantity, Price TC /Kg, Revenue, External commissions, Month.



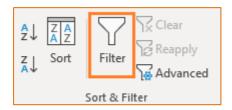
Filter and Clean Your Data

Before you start working on your data, it is important to make sure the imported data has no errors.

You should see to it that there are no duplicate values in the dataset. To ensure that the
dataset is free from duplicates, select the entire dataset and go to the Data tab and select
the Remove Duplicates option in the Data Tools section.



When you want to work on a particular set of data within the dataset, we can use the Filter
option. This option filters out the data to your requirements. To do this, select the whole
dataset and go to the Data tab and locate a Filter option.



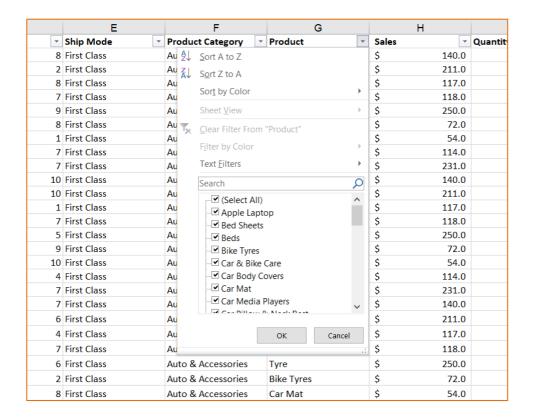
Once you click on this, you can see an arrow pointing down appearing on the column headers of the dataset. Clicking on this arrow will open up options from which we can select the required data.

In this report, let's check any null value or blank value present in the data set.

- We can do so by selecting the Filter option on each column header.
- You will see a drop-down box with various filters that you can search for null or blank values, if present.



 Also, you can filter the data based on multiple parameters, and also sort it by ascending or descending order.



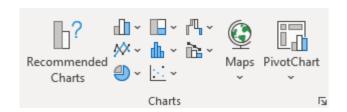
Build a Dashboard

Once we are done cleaning and filtering the data to our requirements, we can create two to three sheets to organize our data by using one sheet for our Dashboard and the other to store our filtered data, which is named here as Dashboard Table.

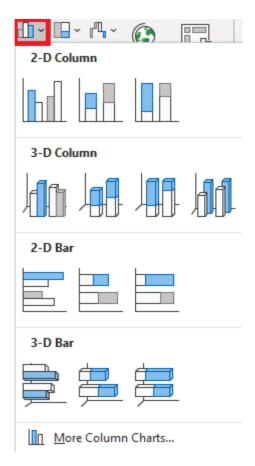


Select the Data

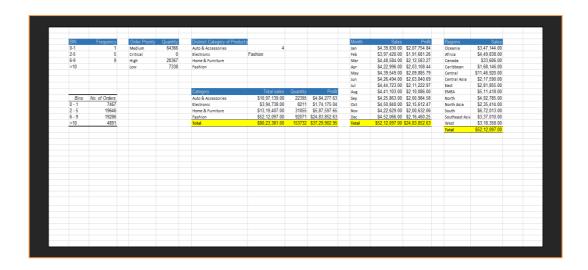
Once we have the data that is required, we can now start making charts. As you can see, we locate the INSERT TAB \rightarrow Charts section and select the desired chart.







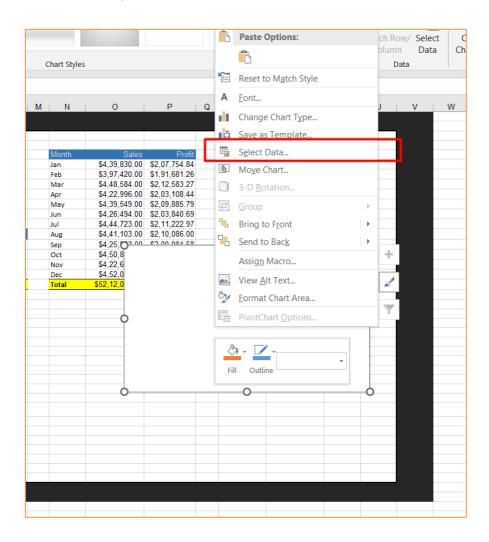
Once we do that, we can see a blank window open up on our Excel sheet. If you right-click on this blank window, you will find an option to Select Data.





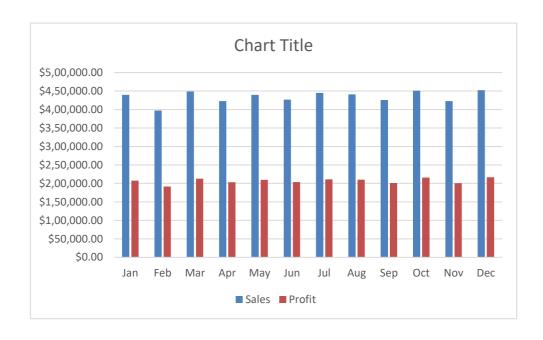
Clicking on this will open up a window called Select Data Source.

- Here, you can add the chart data range by simply dragging your mouse and selecting the required data.
- Now, select the Legend entries (or Vertical axis). In this example, we select profit and sales for our Y axis values.
- For the horizontal axis, we select all the months.



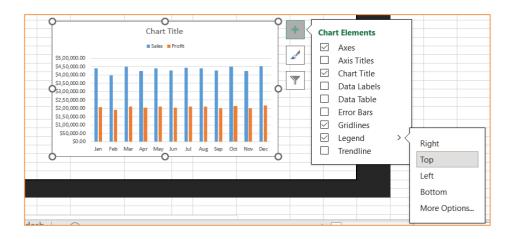
After specifying the appropriate values, click on OK. A graph will now be displayed on your worksheet. You can cut and paste it on the Dashboard Excel sheet that was created for organizing the dashboards.





Customize your Chart Accordingly

- To make your charts appealing and attractive, we can change the graph's colors, add text or give more information about it, etc.
- To do this, double click on the chart and use the different customization options available in the toolbar.
- You can also select the option right next to the chart.
- This will open a drop-down box consisting of various Chart Elements.





Repeats Steps for the Rest of the Data

An Excel Dashboard includes numerous charts and graphs. So, go ahead and add more visual elements to your Dashboard, as per your choice.

You can use the filter option to filter out the data in your database and form appropriate charts. In the following Dashboard, we have a clustered bar chart expected delivery time and different statistics.



As you can see, these elements together help us track various metrics and make complex datasets easier to analyze. With this, you have reached the end of the process of building your personalized Dashboard from a dataset.