



Hands-on Lab 1: Creating Basic Charts

Estimated time needed: 20 minutes

In this lab, you will learn how to create some basic charts in Excel. First, we will look at how to create a column chart and then an area chart. Next, we will learn how to create a bar chart and a line chart from a pivot table.

Software Used in this Lab

The instruction videos in this course use the full Excel Desktop version as this has all the available product features, but for the hands-on labs we will be using the free 'Excel for the web' version as this is available to everyone.

Although you can use the Excel Desktop software if you have access to this version, it is recommended that you use Excel for the web for the hands-on labs as the lab instructions specifically refer to this version, and there are some small differences in the interface and available features. If you do not yet have access to Excel for the Web, you can follow the instructions in the following lab to get started with it: [Hands-on Lab: Introduction to Excel for the web](#).

Dataset Used in this Lab

The dataset used in this lab comes from the following source: <https://www.kaggle.com/gagandeep16/car-sales> under a [CC0: Public Domain license](#). We are using a modified subset of that dataset for the lab, so to follow the lab instructions successfully, please use the dataset provided with the lab, rather than the dataset from the original source.

Objectives

After completing this lab, you will be able to:

- Create a column chart.
- Create an area chart.
- Create a bar chart from a pivot table.
- Create a line chart from a pivot table.

Exercise 1 : Creating Column Charts and Area Charts in Excel

In this exercise, you will learn how to create basic charts, such as column and area charts, in Excel.

Task A : Create a Column Chart

1. Download the file [Car Sales Kaggle DV0130EN Lab1 Start.xlsx](#). Upload and open it using Excel for the web.
2. Switch to the worksheet named **Column Chart**.
3. Click the **filter drop-down** in column **A (Manufacturer)**, and select **Filter...**
4. In the list, only select **Toyota** and click **OK**.

Filter

Select item:

☐ Infiniti

☐ Jaguar

☐ Jeep

☐ Lexus

☐ Lincoln

☐ Mercedes-B

☐ Mercury

☐ Mitsubishi

☐ Nissan

☐ Oldsmobile

☐ Plymouth

☐ Pontiac

☐ Porsche

☐ Saab

☐ Saturn

☐ Subaru

☒ Toyota

☐ Volkswagen

☐ Volvo

OK

Cancel

5. Select column **B**, then hold **SHIFT** and select column **C**.

	A	B	C	D	
1	Manufacturer	Model	Power Perf Factor	Unit Sales	Price
136	Toyota	Corolla	47.96897242	142535	
137	Toyota	Camry	54.37241965	247994	
138	Toyota	Avalon	84.91189826	63849	
139	Toyota	Celica	56.49603034	33269	
140	Toyota	Tacoma	55.29711658	84087	
141	Toyota	Sienna	78.02721947	65119	
142	Toyota	RAV4	51.95510887	25106	
143	Toyota	4Runner	62.35557713	68411	
144	Toyota	Land Cruiser	102.5289842	9835	
157					

6. On the **Charts** group of the **Insert** tab, click **Column** Chart and choose **Clustered Column** from the **2-D Column** category.

InsertFormulasDataReviewViewHelpDesignTell me what you want to do

Table

PivotTable

Picture

Shapes

Office Add-ins

Recommended Charts

Column

Line

Pie

Bar

Area

Scatter

Other Charts

Hyperlink

2-D Column

Clustered Column

Compare values across categories by using vertical rectangles.

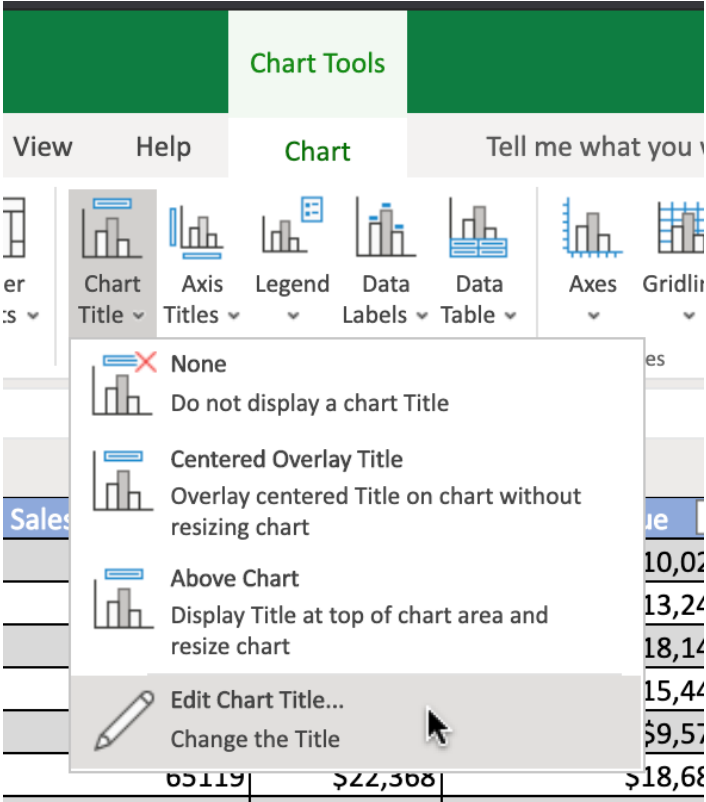
Use it when the order of categories is not important or for displaying item counts such as a histogram.

Model

	B	C		F	
Model	Power Perf Factor	Unit Sales	Price	Resale Value	Retention
Corolla	47.96897242	142535	\$17,518	\$10,025	
Camry	54.37241965	247994	\$13,245	\$13,245	
Avalon	84.91189826	63849	\$18,140	\$18,140	
Celica	56.49603034	33269	\$15,445	\$15,445	
Tacoma	55.29711658	84087	\$16,875	\$16,875	
Sienna	78.02721947	65119	\$22,368	\$22,368	
RAV4	51.95510887	25106	\$16,888	\$13,325	
4Runner	62.35557713	68411	\$22,288	\$19,425	
Land Cruiser	102.5289842	9835	\$51,728	\$34,080	

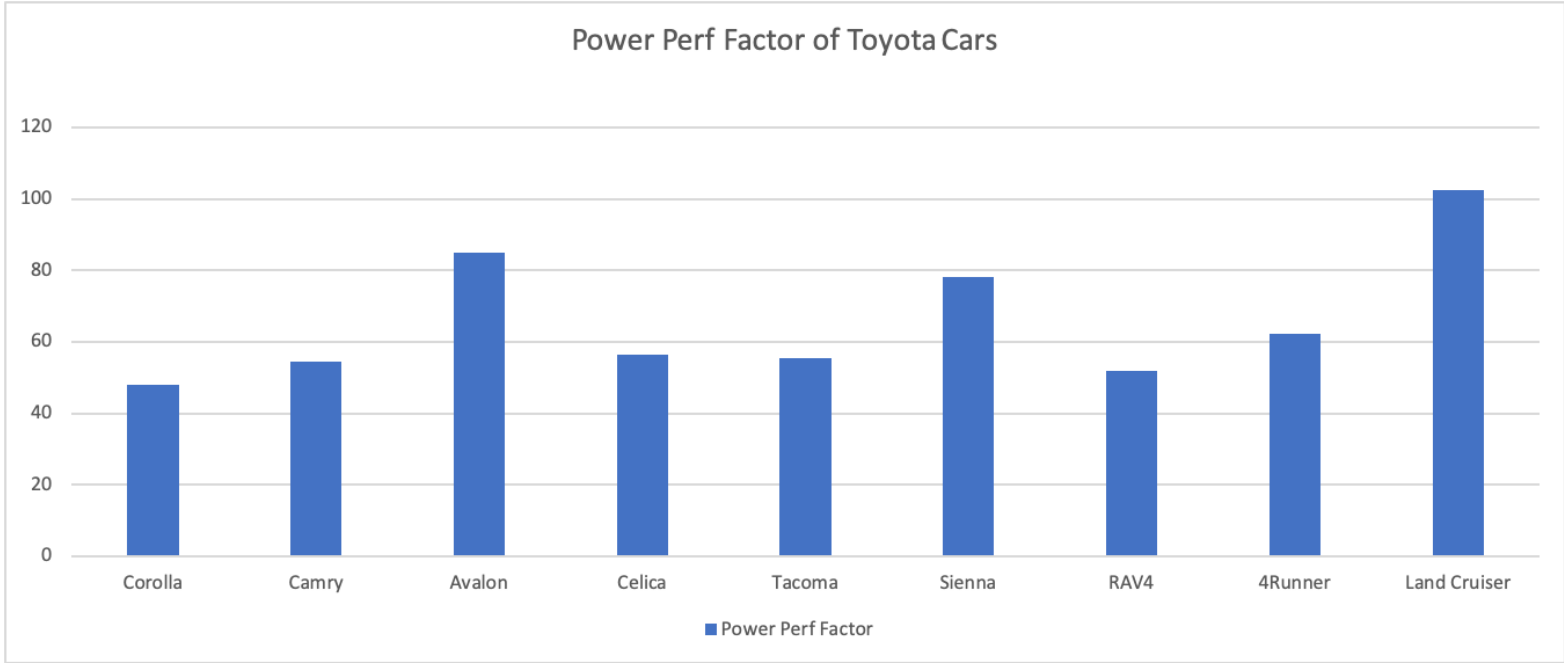
7. Click on the floating chart area to access the **Chart** tab in the ribbon.

8. On the **Labels** group of the **Chart** tab, click **Chart Title** and select **Edit Chart Title....**



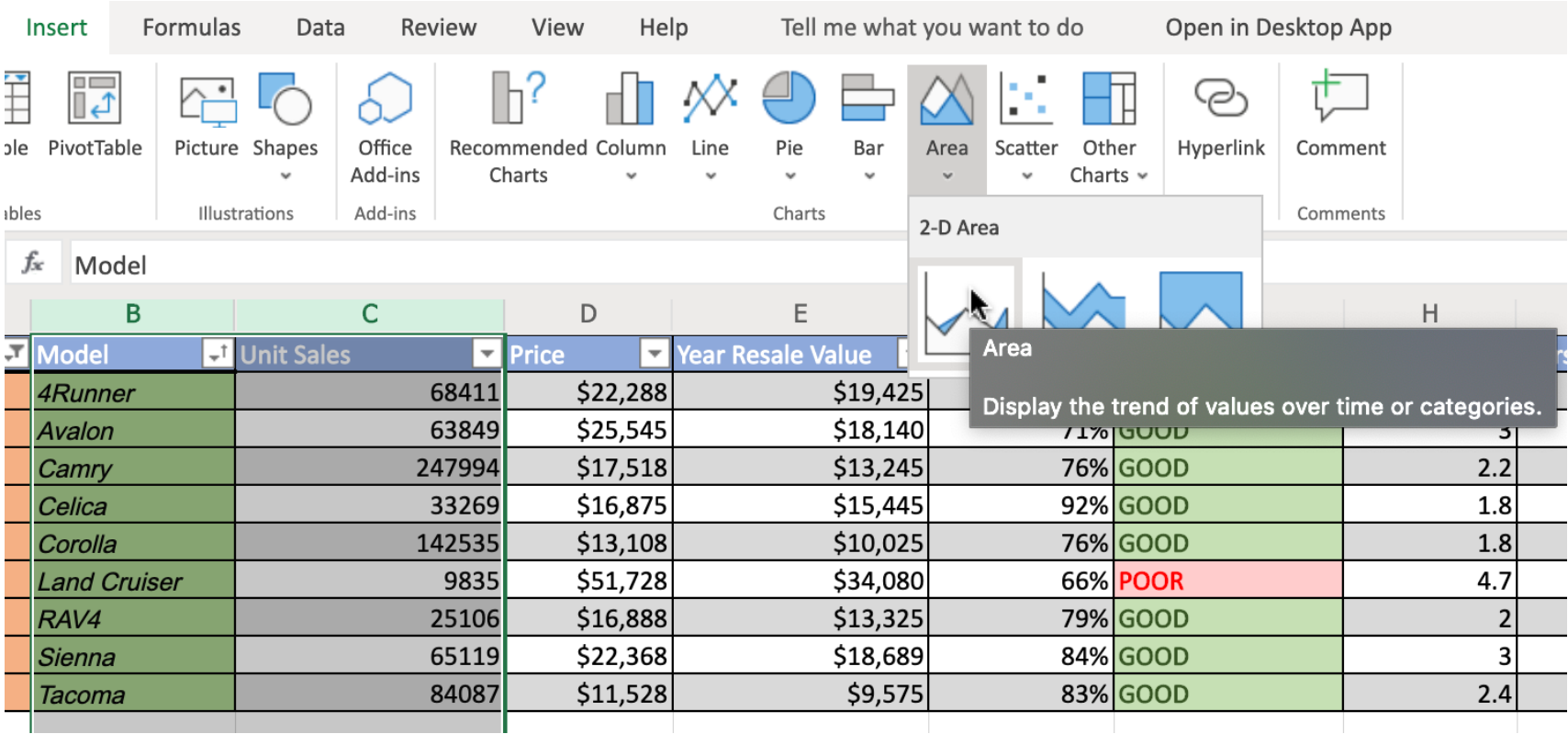
9. In the text input area of the dialog box **Edit Title**, write "**Power Perf Factor of Toyota Cars**" and click **OK**.

10. Your chart should look something like the one below:

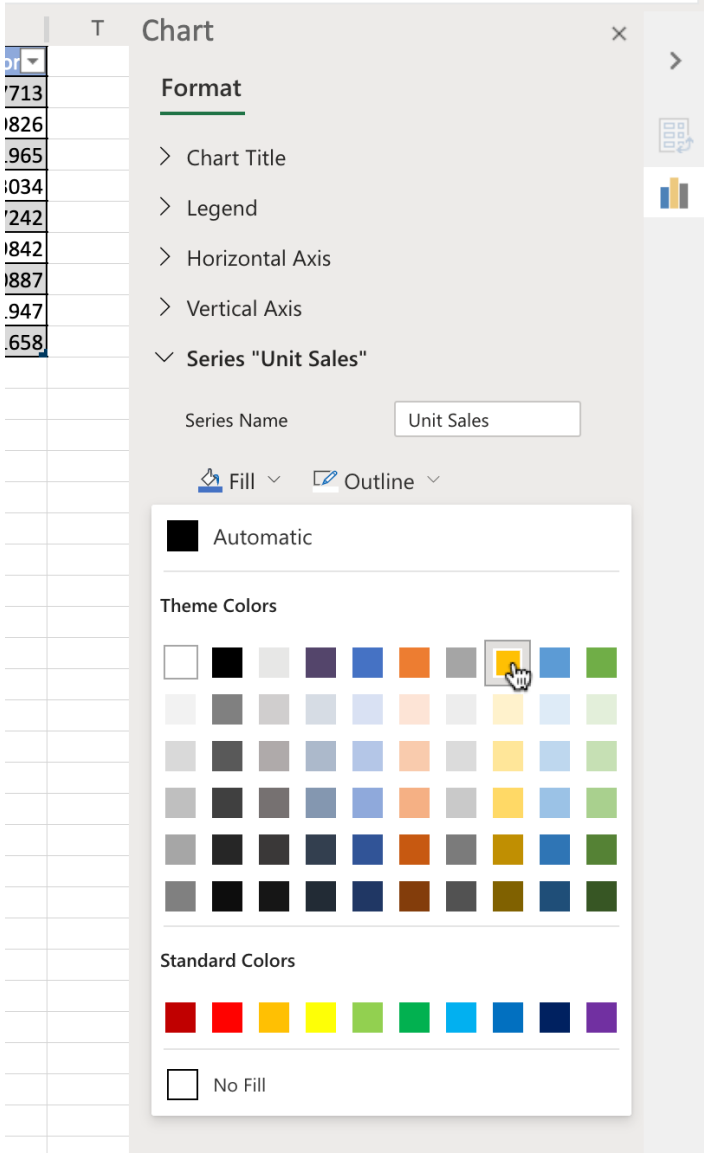


Task B : Create an Area Chart

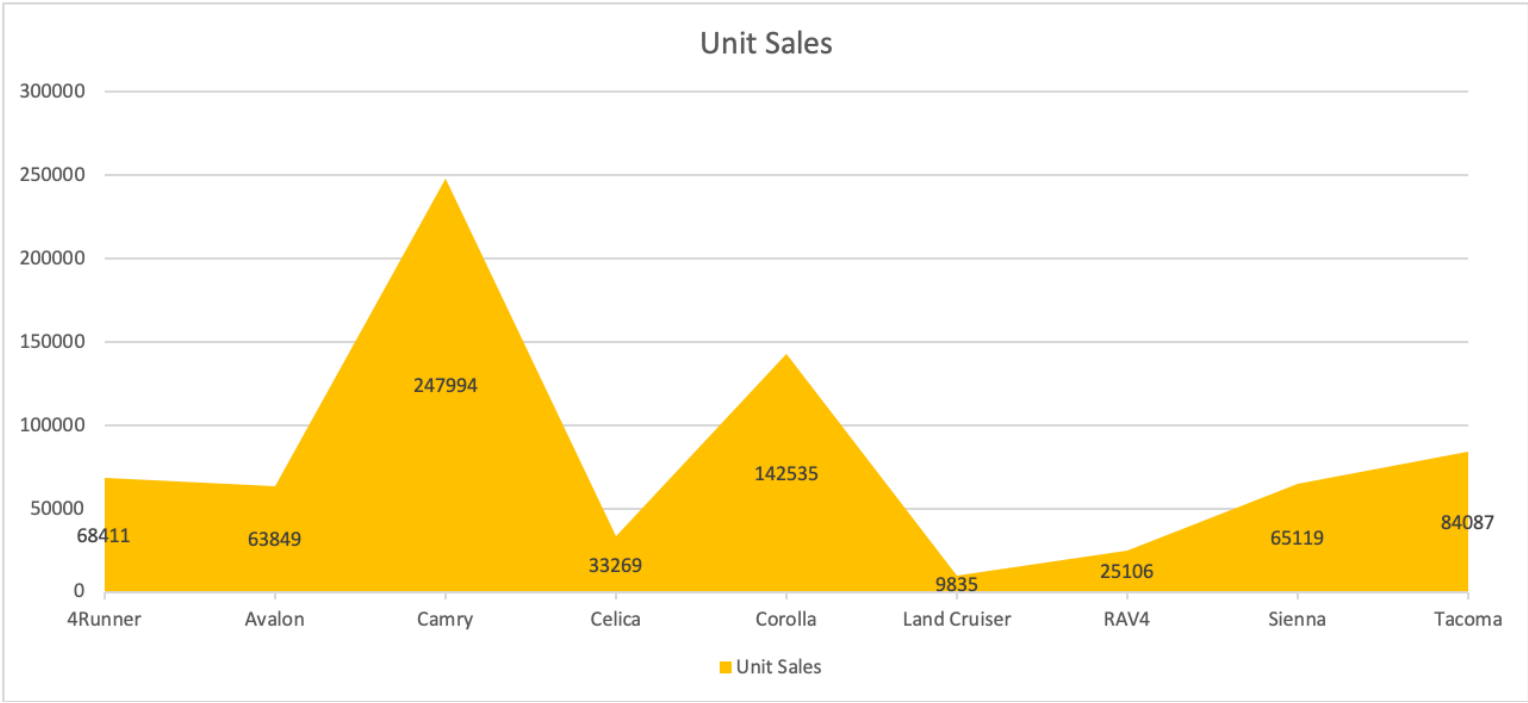
1. Switch to the worksheet named **Area Chart**.
2. Click the **filter drop-down** in column **A (Manufacturer)**, and select **Filter...**
3. In the list, only select **Toyota** and click **OK**.
4. Select column **B**, then hold **SHIFT** and select column **C**.
5. On the **Charts** group of the **Insert** tab, click **Area** Chart and choose **Area** from the **2-D Area** category.



6. Click on the floating chart area to access the **Chart** tab in the ribbon.
7. On the **Labels** group of the **Chart** tab, click **Data Labels** and select **Show**.
8. On the **Format** group of the **Chart** tab, click **Format**.
9. On the right side menu bar **Format**, select **Series "Unit Sales"** > **Fill** > **Gold, Accent 4**.



10. Your chart should look something like the one below:

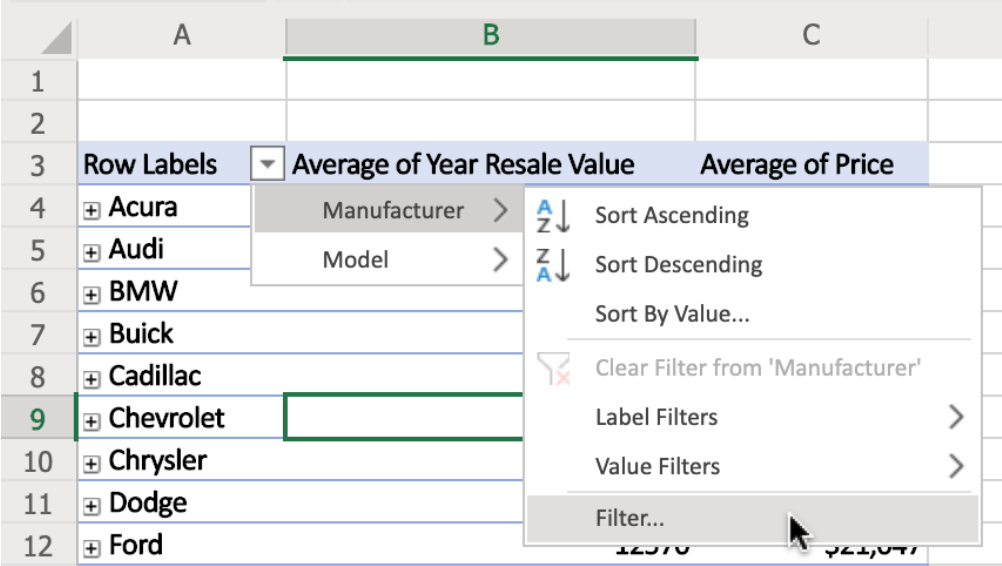


Exercise 2 : Create Bar Charts and Line Charts from a Pivot Table in Excel

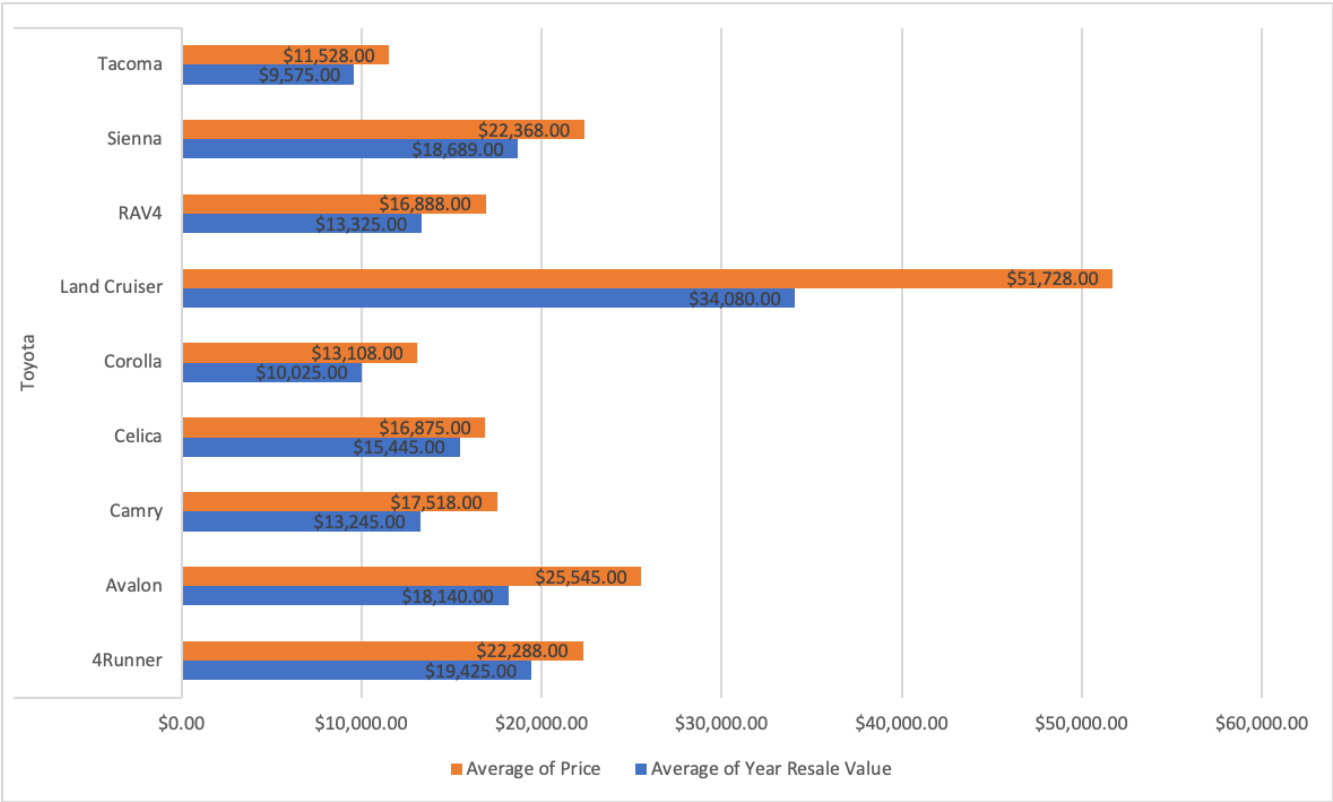
In this exercise, you will learn how to create basic charts, such as bar and line charts, using a pivot table in Excel.

Task A : Create a Bar Chart from a Pivot Table

1. Switch to the worksheet named **Bar Chart**.
2. Click the **filter drop-down** in column **A**, and select **Manufacturer > Filter...**

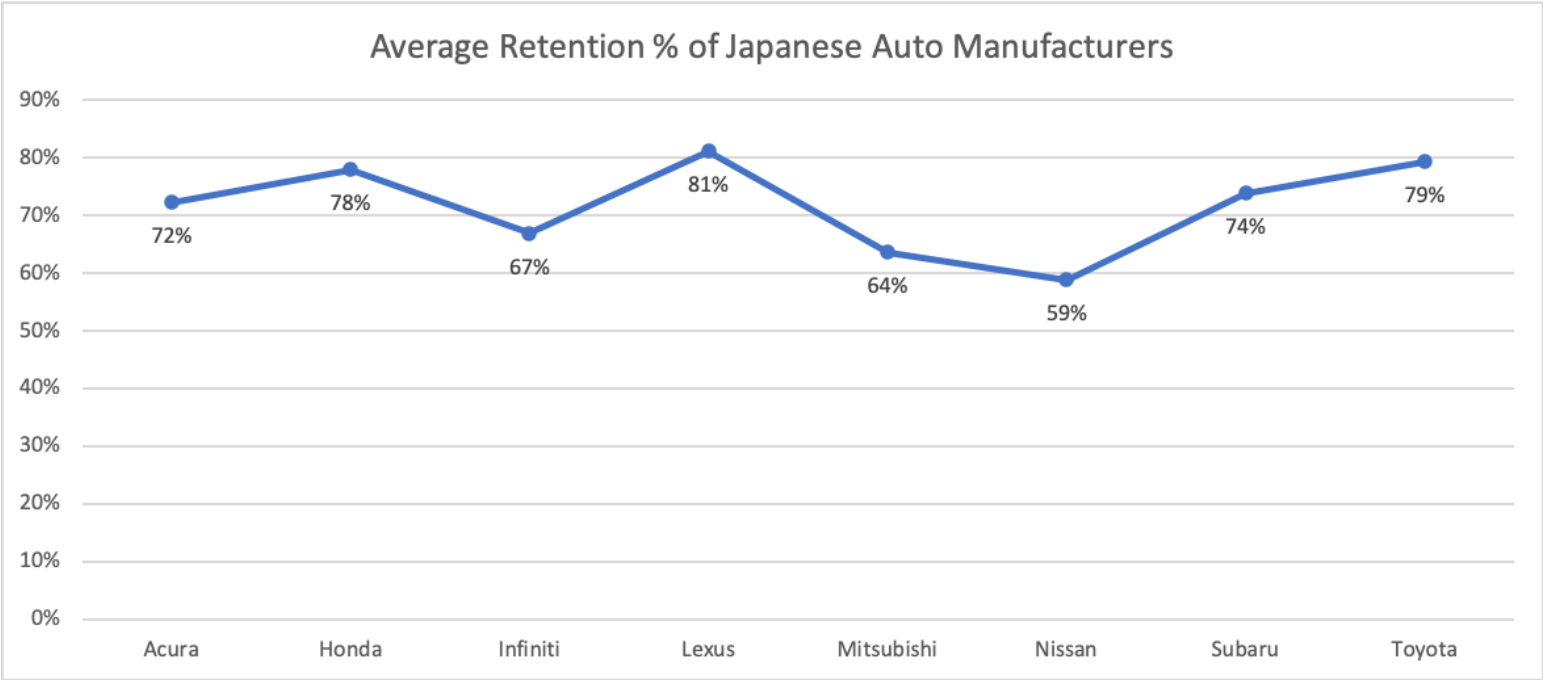


3. In the list, only select **Toyota** and click **OK**.
4. Double-click cell **A4** to expand entire field.
5. On the **Charts** group of the **Insert** tab, click **Bar Chart** and choose **Clustered Bar** from the **2-D Bar** category.
6. Click on the floating chart area to access the **Chart** tab in the ribbon.
7. On the **Labels** group of the **Chart** tab, click **Data Labels** and select **Inside End**.
8. Your chart should look something like the one below:



Task B : Create a Line Chart from a Pivot Table

1. Switch to the worksheet named **Line Chart**.
2. Click the **filter drop-down** in column **A**, and select **Manufacturer > Filter...**
3. In the list, only select **Acura, Honda, Infiniti, Lexus, Mitsubishi, Nissan, Subaru, Toyota** and click **OK**.
4. Click any cell of the pivot table.
5. On the **Charts** group of the **Insert** tab, click **Line** Chart and choose **Line with Markers** from the **2-D Line** category.
6. Click on the floating chart area to access the **Chart** tab in the ribbon.
7. On the **Labels** group of the **Chart** tab, click **Chart Title** and select **Edit Chart Title...**
8. In the text input area of the dialog box **Edit Title**, write "**Average Retention % of Japanese Auto Manufacturers**" and click **OK**.
9. On the **Labels** group of the **Chart** tab, click **Data Labels** and select **Below**.
10. On the **Labels** group of the **Chart** tab, click **Legend** and select **None**.
11. Your chart should look something like the one below:



Congratulations! You have completed Lab 1, and you are ready for the next topic.

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Other Contributor(s)

- [Steve Ryan](#)

Changelog

Date	Version	Changed by	Change Description
2020-09-10	1.2	Steve Ryan	Added software and dataset info
2020-09-09	1.1	Steve Ryan	ID review
2020-09-01	1.0	Sandip Saha Joy	Initial version created

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