Data visualization using in Excel Lab1

Outlines:

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.

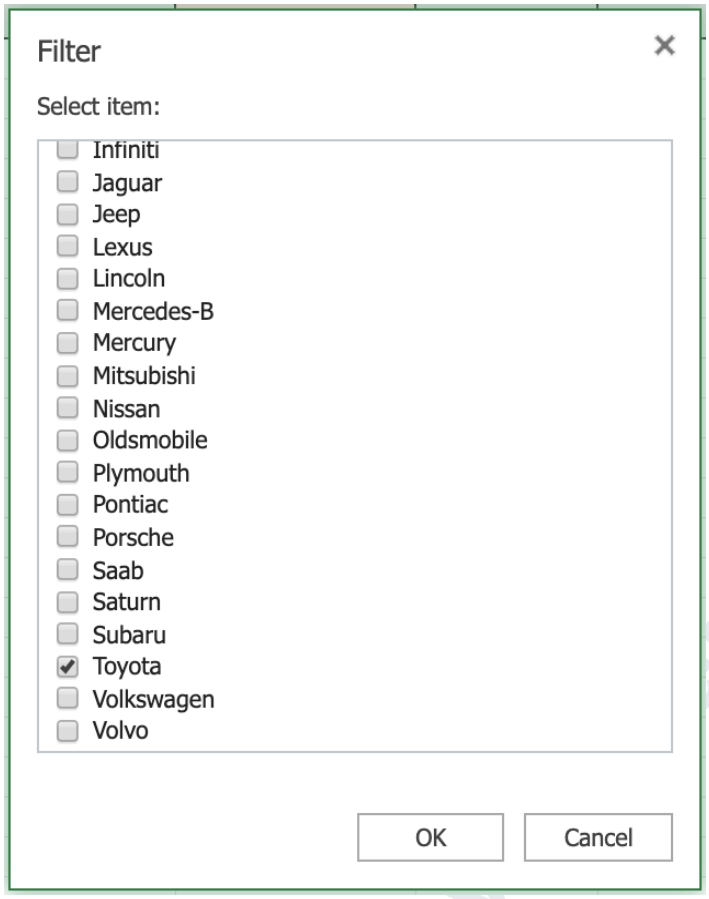
Exercise 1 : Creating Column Charts and Area Charts in Excel

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 **drop-down** arrow at the top of column A (Manufacturer)

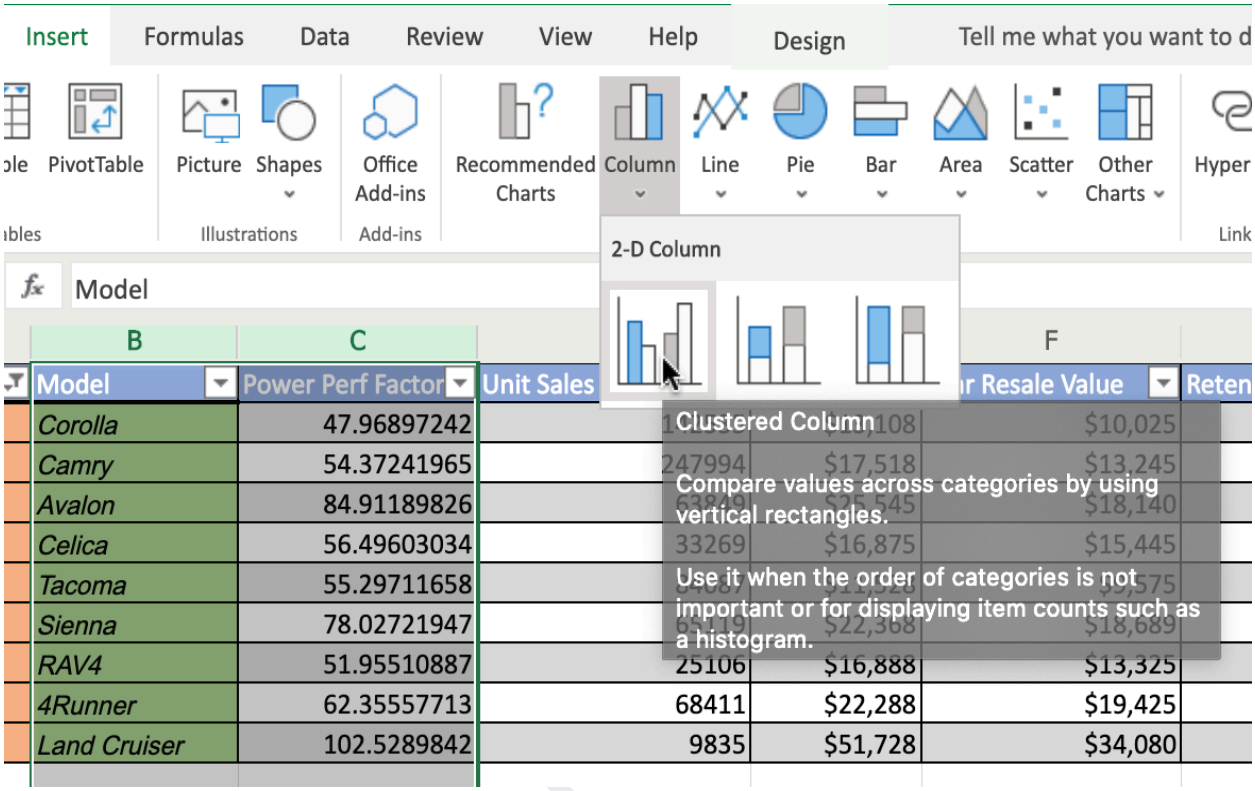
4. In the list, only select **Toyota** and click **OK**.



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

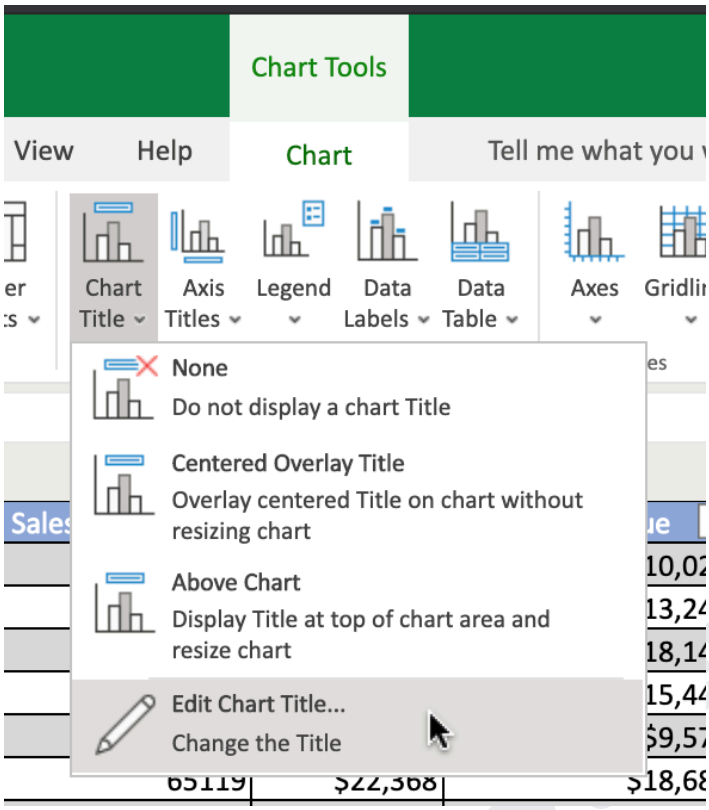
	A	B	C	D
1	Manufacturer	Model	Power Perf Factor	Unit Sales
136	Toyota	*Corolla*	47.96897242	142535
137	Toyota	*Camry*	54.37241965	247994
138	Toyota	*Avalon*	84.91189826	63849
139	Toyota	*Celica*	56.49603034	33269
140	Toyota	*Tacoma*	55.29711658	84087
141	Toyota	*Sienna*	78.02721947	65119
142	Toyota	*RAV4*	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.



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…**.

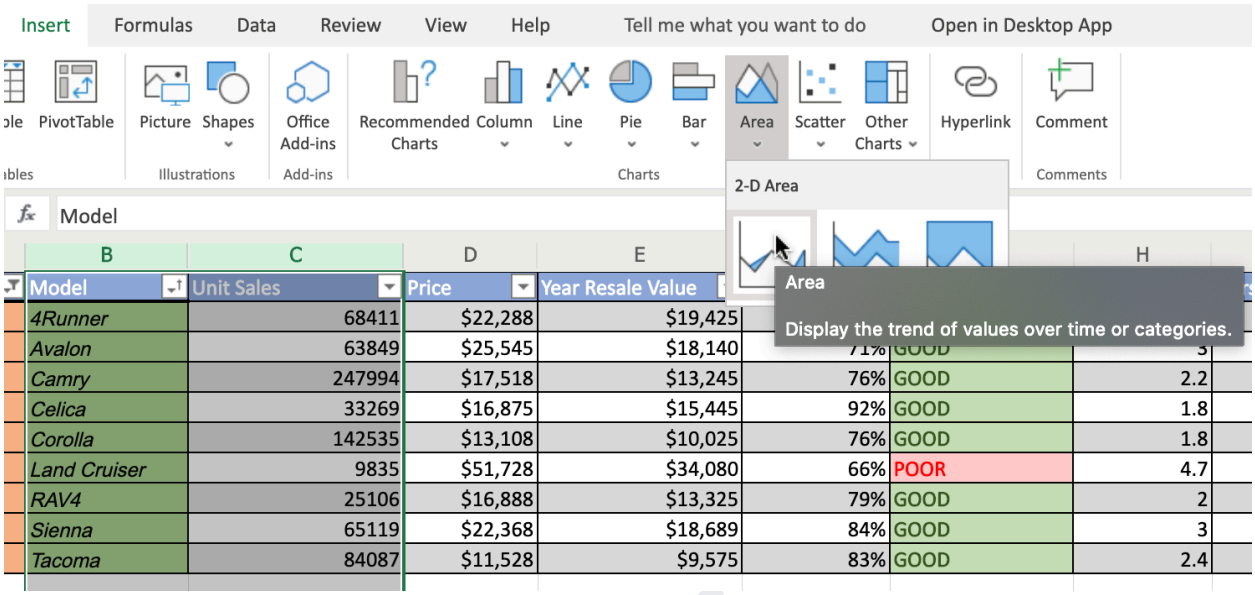


9. In the text input area of the dialog box **Edit Title**, write **"Power Perf Factor of Toyota Cars"** and click **OK**.

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**.

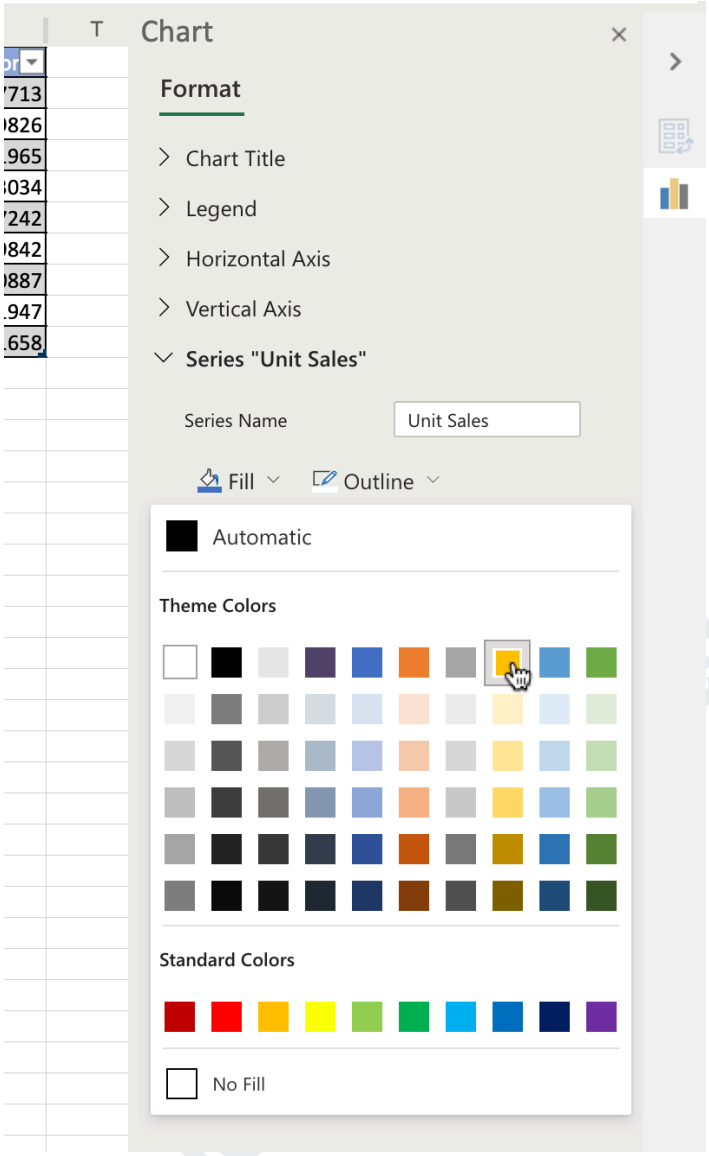
5. On the **Charts** group of the **Insert** tab, click **Area** Chart and choose **Area** from the **2-D Area** category.



Model	Unit Sales	Price	Year Resale Value			
4Runner	68411	$22,288	$19,425			
Avalon	63849	$25,545	$18,140			
Camry	247994	$17,518	$13,245	76%	GOOD	2.2
Celica	33269	$16,875	$15,445	92%	GOOD	1.8
Corolla	142535	$13,108	$10,025	76%	GOOD	1.8
Land Cruiser	9835	$51,728	$34,080	66%	POOR	4.7
RAV4	25106	$16,888	$13,325	79%	GOOD	2
Sienna	65119	$22,368	$18,689	84%	GOOD	3
Tacoma	84087	$11,528	$9,575	83%	GOOD	2.4

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**.



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**.

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**.

Link to completed work

Please download this file for beter accessibility as the hyperlinks doesnot work in Github.

- https://1drv.ms/x/c/e9e9f77ba9bf99d2/IQCBkt6g3XBZTZN0fDfhKXO4AWu73p-52kQvanV7tG41cnE?e=1F8USU