

Data visualization using in Excel Lab1

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Objectives

After completing this lab, you will be able to:

- Create a hierarchical type chart such as a sunburst chart.
- Create a scatter chart.
- Create a statistical chart such as a histogram.

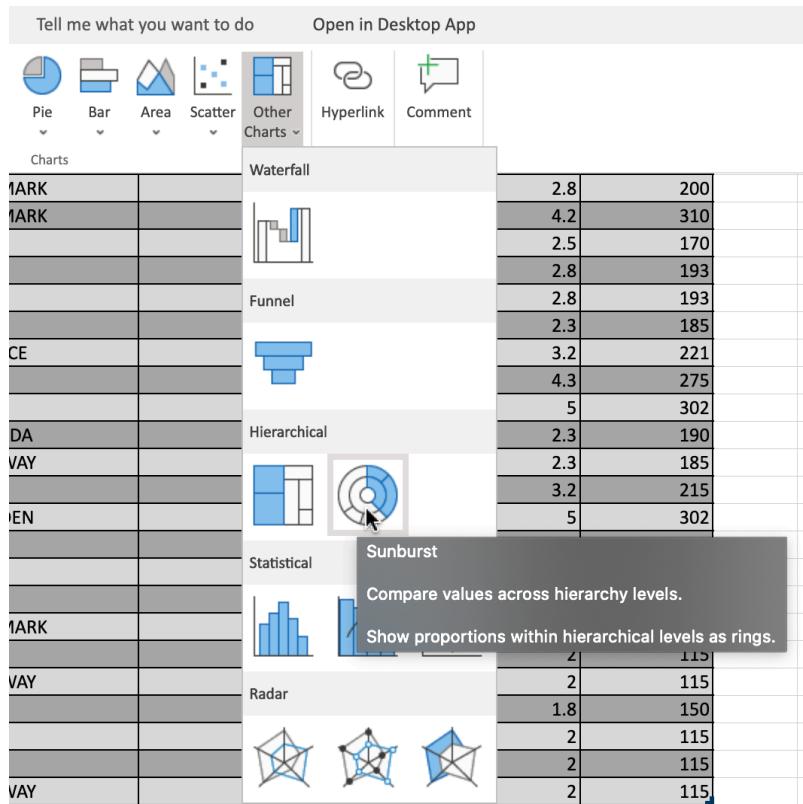
Exercise 1 : Creating Sunburst, Scatter and Histogram Charts in Excel

In this exercise, you will learn how to create advanced charts, such as a sunburst chart, a scatter chart and histogram charts in Excel.

Task A : Create a Sunburst Chart

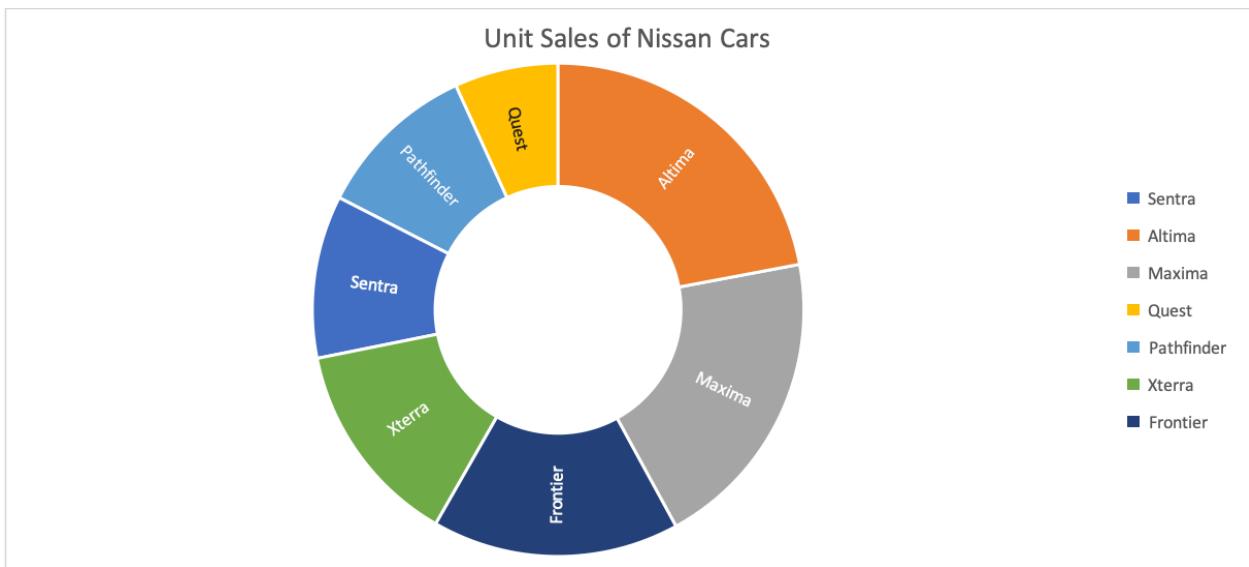
1. Download the file [Car_Sales_Kaggle_DV0130EN_Lab2_Start.xlsx](#). Upload and open it using Excel for the web.
2. Switch to the worksheet named **Sunburst Chart**.
3. Click the **drop-down arrow** at the top of column **A (Manufacturer)**.
4. In the list of filters, click **Select All** to DESELECT all filters, then scroll down the filter list and ONLY select **Nissan**, then click **Apply**.
5. Select column **B**, then hold **SHIFT** and select column **C**.

6. On the **Charts** group of the **Insert** tab, click **Other Charts** and choose **Sunburst** from the **Hierarchical** 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 “**Unit Sales of Nissan Cars**” and click **OK**.
10. On the **Labels** group of the **Chart** tab, click **Legend** and select **Show Legend at Right**.

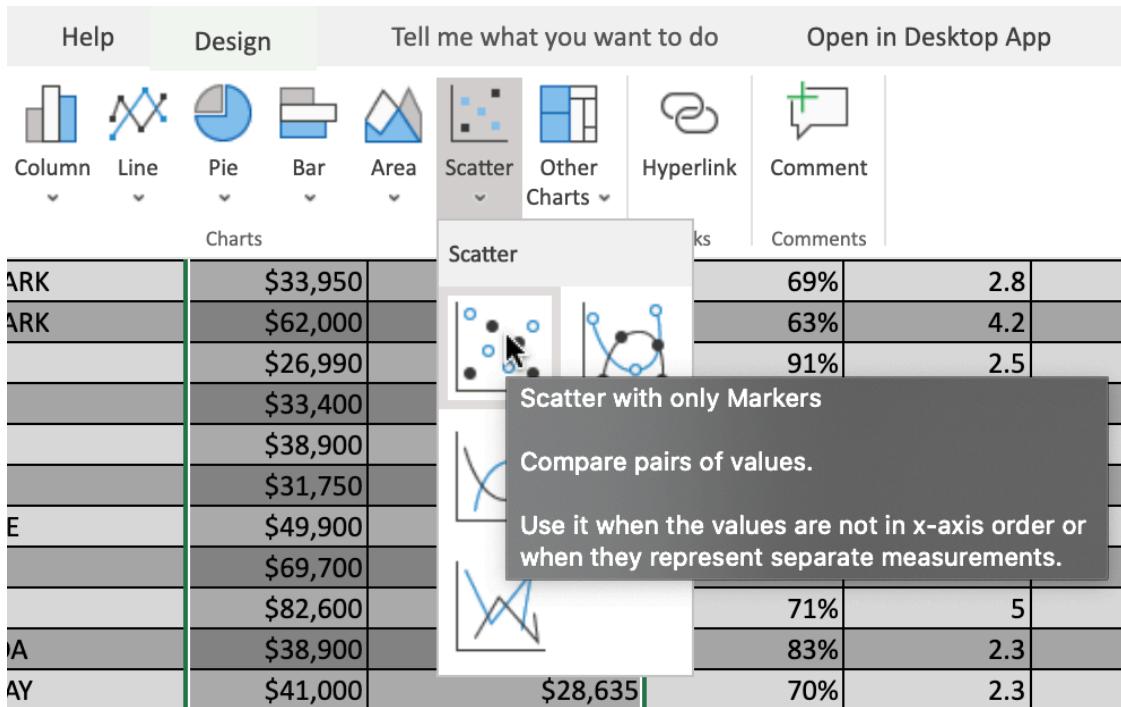
11. Your chart should look something like the one below:



Task B : Create a Scatter Chart

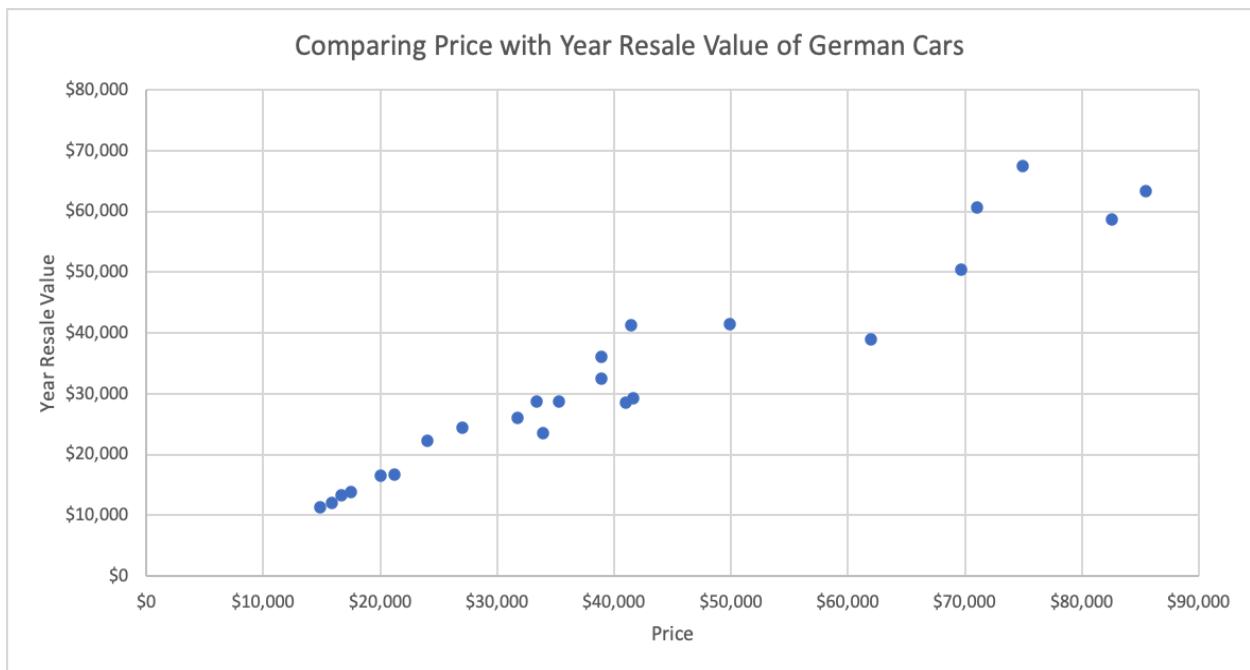
1. Switch to the worksheet named **Scatter Chart**.
2. Click the **filter drop-down** in column A (Manufacturer)..
3. In the filter list, only select **Audi, BMW, Mercedes-B, Porsche, Volkswagen** and click **OK**.
4. Select column E, then hold **SHIFT** and select column F.

5. On the **Charts** group of the **Insert** tab, click **Scatter** Chart and choose **Scatter with only Markers** from the **Scatter** category.



6. Drag the chart across to the right of the sheet.
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 “Comparing Price with Year Resale Value of German Cars” and click **OK**.
10. On the **Labels** group of the **Chart** tab, click **Axis Titles** and select **Primary Horizontal Axis Title > Edit Horizontal Axis Title....**
11. In the text input area of the dialog box **Edit Title**, write “Price” and click **OK**.
12. On the **Labels** group of the **Chart** tab, click **Axis Titles** and select **Primary Vertical Axis Title > Edit Vertical Axis Title....**
13. In the text input area of the dialog box **Edit Title**, write “Year Resale Value” and click **OK**.
14. On the **Labels** group of the **Chart** tab, click **Legend** and select **None**.

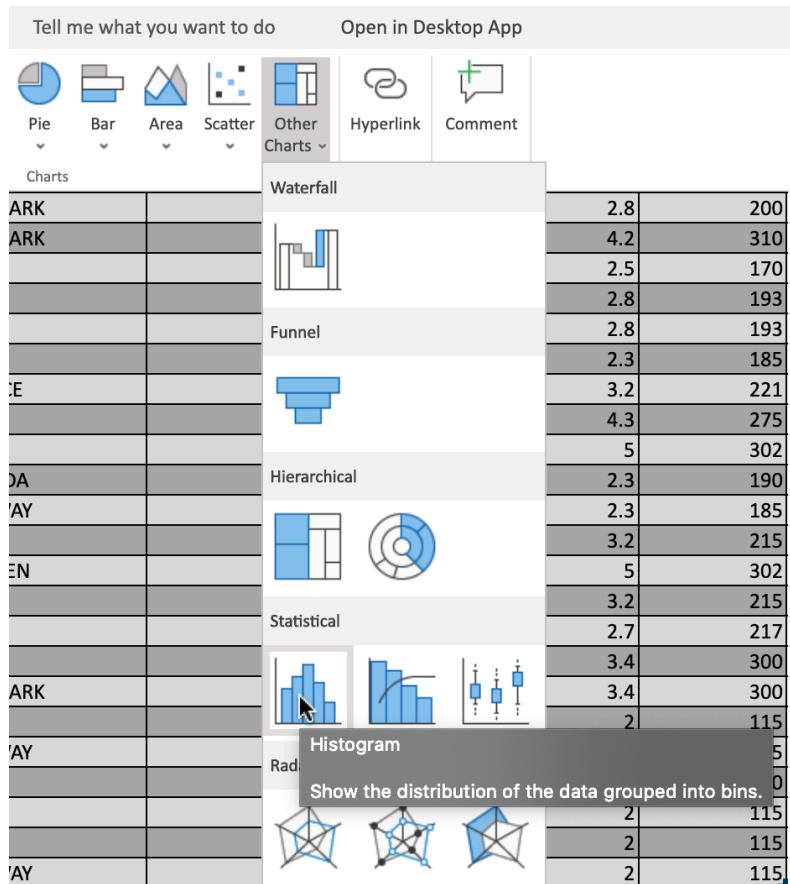
15. Your chart should look something like the one below:



Task C : Create a Histogram Chart

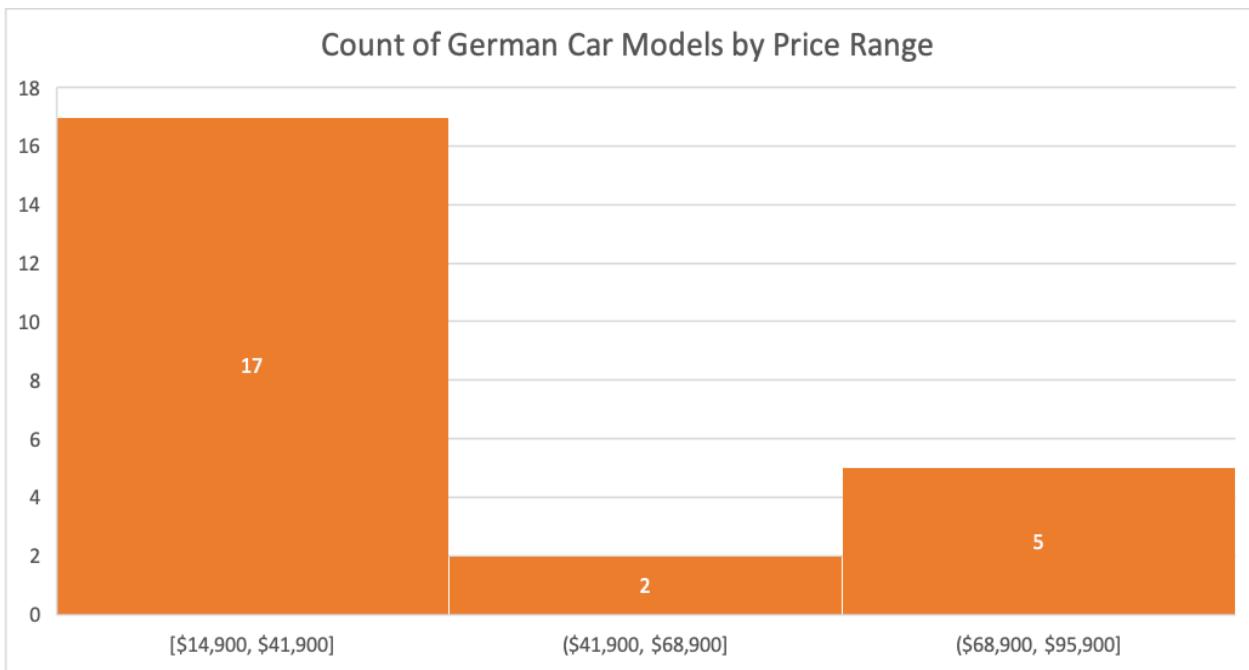
1. Switch to the worksheet named **Histogram Chart**.
2. Click the **drop-down arrow** at the top of column A (**Manufacturer**).
3. In the filter list, only select **Audi, BMW, Mercedes-B, Porsche, Volkswagen** and click **OK**.
4. Select column **B**, then hold **SHIFT** and select column **C**.

5. On the **Charts** group of the **Insert** tab, click **Other Charts** Chart and choose **Histogram** from the **Statistical** category.



6. Drag the chart across to the right of the sheet.
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 “Count of German Car Models by Price Range” and click **OK**.
10. On the **Labels** group of the **Chart** tab, click **Data Labels** and select **Center**.
11. On the **Format** group of the **Chart** tab, click **Format**.
12. On the right side menu bar **Format**, select **Series “Price” > Fill > Orange, Accent 2.**

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



Link to completed work

Please download this file for better accessibility as the hyperlinks do not work in Github.

- https://1drv.ms/x/c/e9e9f77ba9bf99d2/IQAntzEzx33hT5C-10fs8sgWAbJghk-Y_3CiHRq1dOjD-M?e=9PhShP