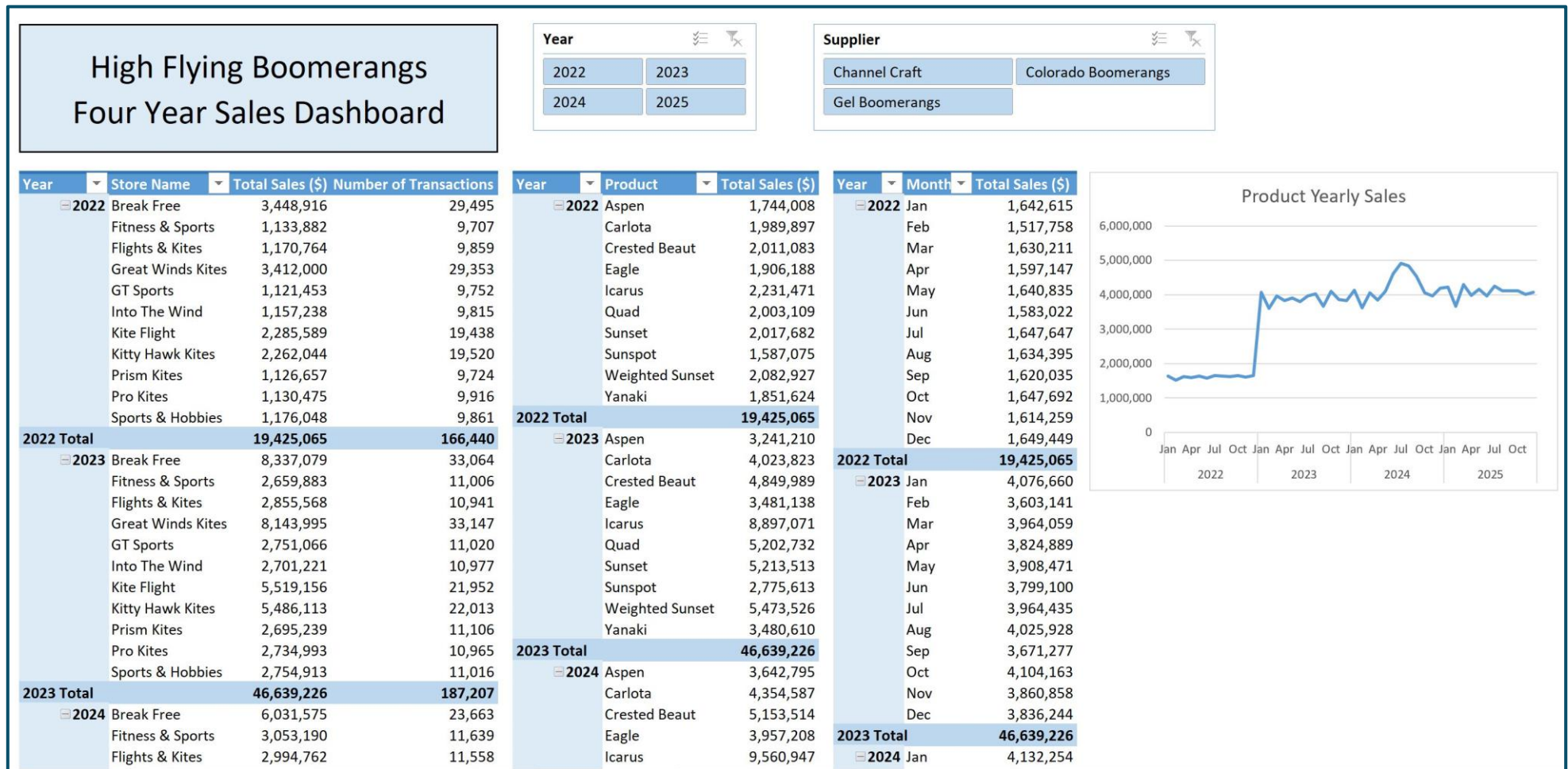


BI 348 Project 04

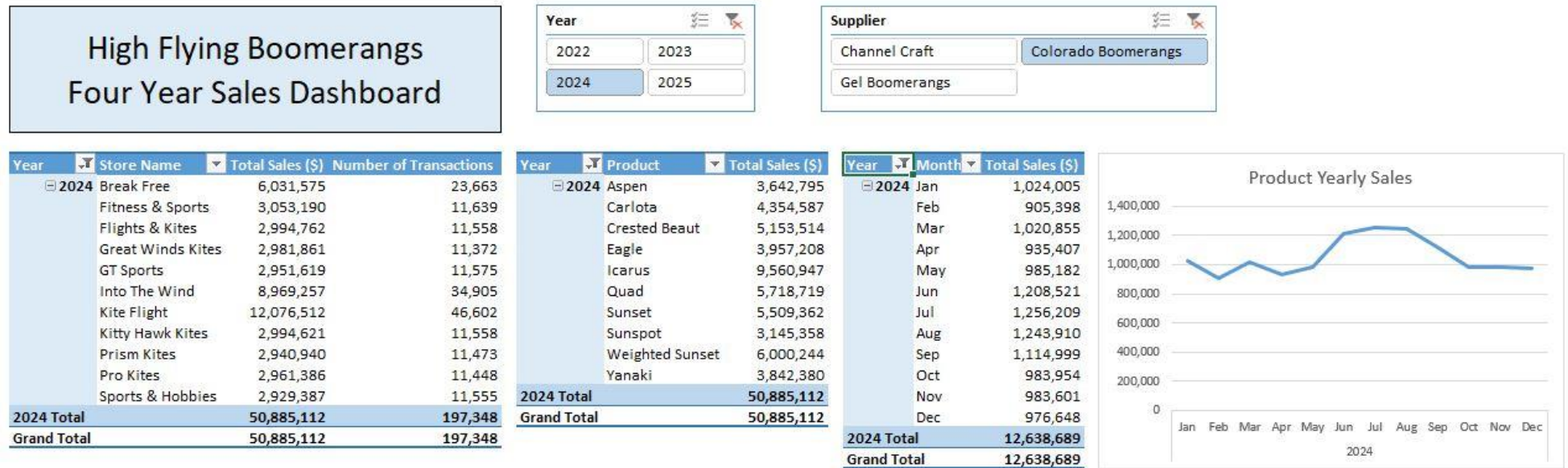
Spring 2025

Here are the steps for this project:

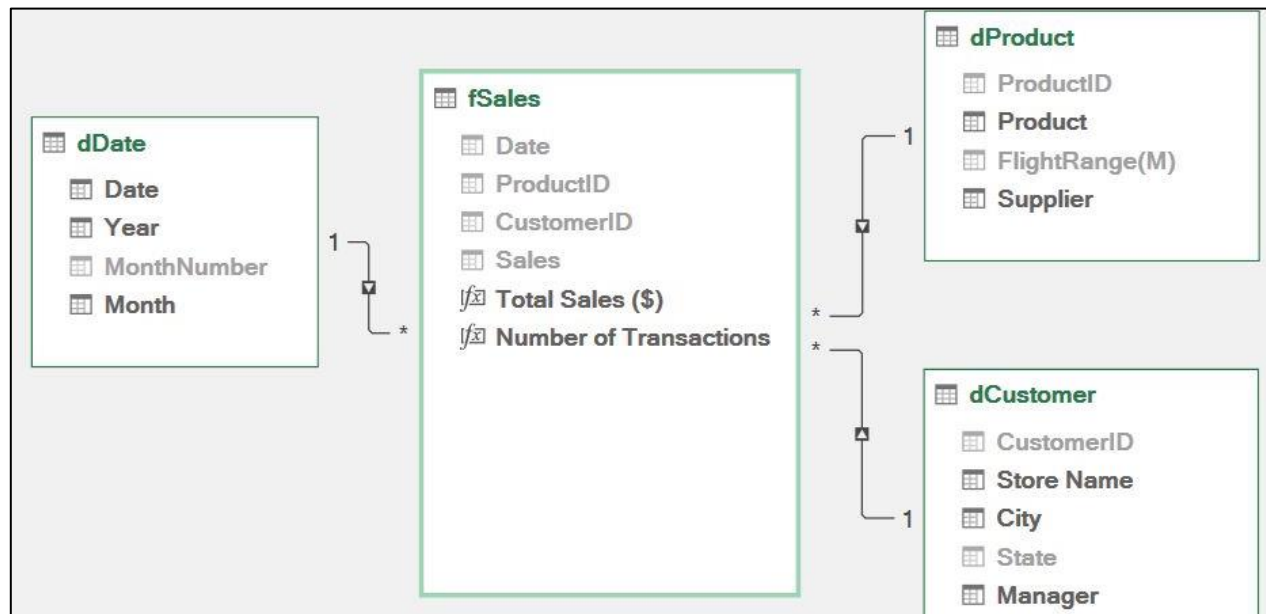
- 1) When you are done with this project you will create a data model and a dashboard in an Excel file. Then you will create a Data Model and a dashboard in a Power BI Desktop file. You will upload both files to the Project 4 Upload links in the Home area of Canvas.
- 2) The first data analysis goal for this project is to create this Excel finished sales dashboard as is shown in the picture below, where you will create three Data Model PivotTables, two Slicers, a Line Chart and a Textbox with a dashboard title:



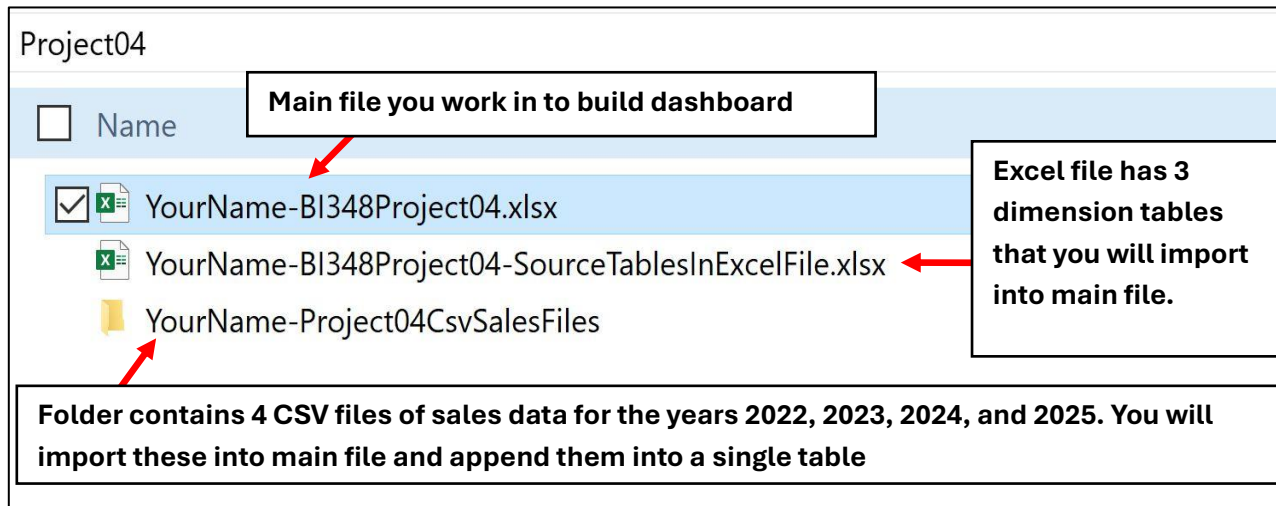
Here is a picture of the same Excel dashboard with the Slicers selected for the Supplier Colorado Boomerangs in the year 2024:



3) You will create a Power Pivot Data Model with tables, Relationships, DAX Measures, and hidden fields as is shown below:



- 4) Below is a picture of the files you downloaded for this project. Add your name to the names of the two project files and one project folder.



- 5) Look inside the folder (XX-Project04CsvSalesFiles) and open one of the csv files to familiarize yourself with the sales data (about 200,000 rows of data in each csv file). Close the csv file.
- 6) Open the Excel file (XX-BI348Project04-SourceTablesInExcelFile.xlsx) and familiarize yourself with the dimension tables. Close the Excel file.
- 7) After making sure that you close any project file that you had previously opened, start the data analysis tasks in this Excel file (XX-BI348Project04.xlsx)
- 8) Using the **Power Query From Excel Workbook feature**, import the three dimension tables (look tables) "dProduct", "dCustomer", & "dDate" from the Excel file "XX-BI348Project04-SourceTablesInExcelFile.xlsx" and load them to the Data Model.
- When you load to the Data Model, remember to select "Only Create Connection" AND "Add this data to the Data Model".
- 9) Using the **Power Query From Folder feature**, import the four csv files from the folder named "XX-Project04CsvSalesFiles", append them into a single table with the name "fSales", and then load the single appended table to the Data Model.
- Note: There are a total of 750,000 rows of data after you combine the csv files.
 - When you load to the Data Model, remember to select "Only Create Connection" AND "Add this data to the Data Model".
- 10) In the Power Pivot Design View, create the **relationships** between the tables and **hide fields** that you do not want to show the reporting area.
- 11) In Data View, in the dDate table, **sort the Month (Month Name)** column by the MonthNumber column.
- 12) In Data View, in the Measure Grid under the fSales table, create the **DAX Measures**: Total Sales (\$) and Number of Transactions.
- 13) On the worksheet named "Dashboard", create your sales dashboard.

14) When you create the 3 PivotTables, **name each PivotTable** (Right-click PivotTable, PivotTable Options, PivotTable Name text box). Name the 3 PivotTables:

- CustomerStoreSalesPT
- ProductPT
- YearPT

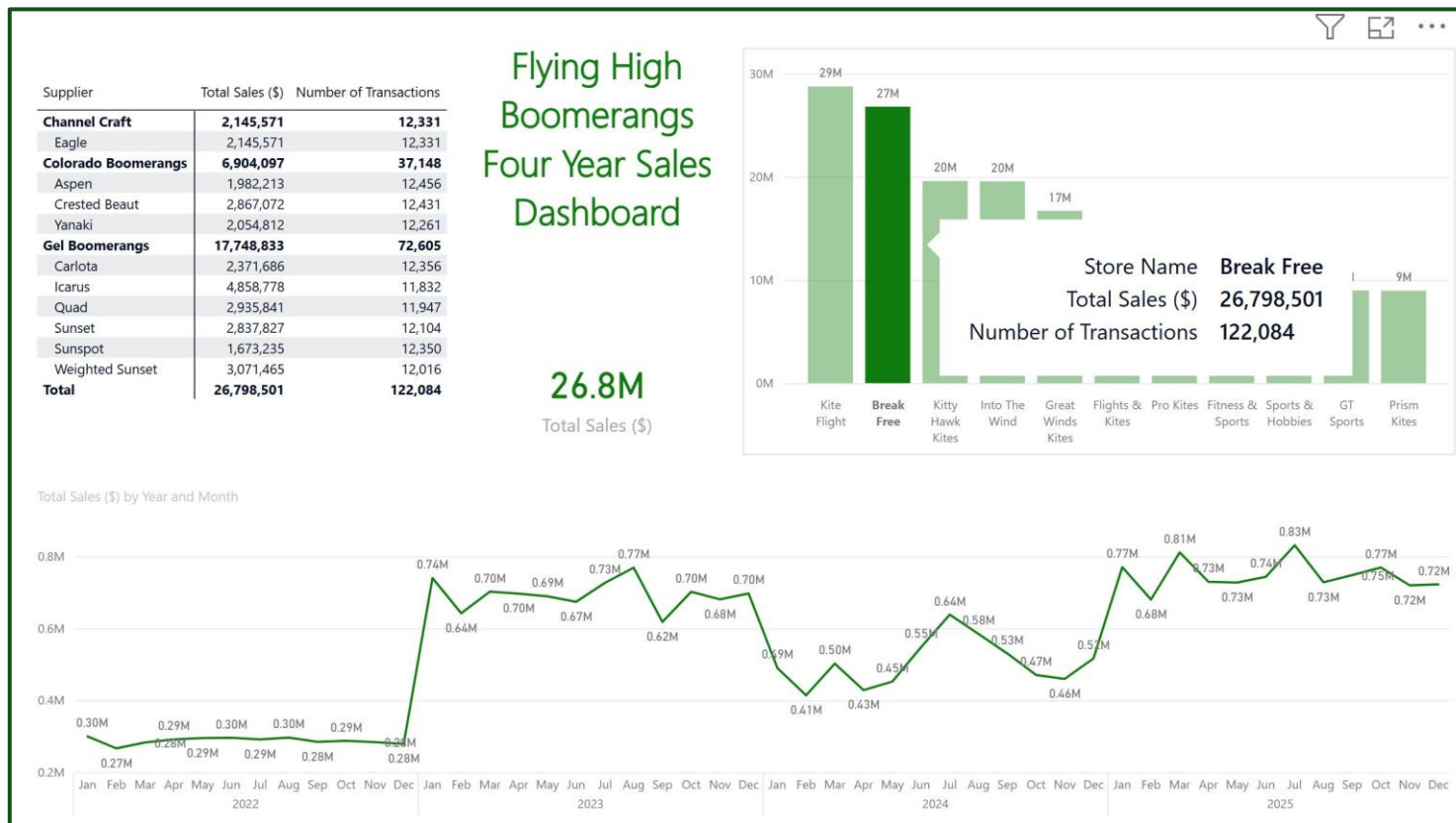
15) **Add one Slicer for Year and a second Slicer for Supplier.** Connect all 3 PivotTables to each of the Slicers. To connect PivotTables to Slicers, right-click the Slicer, click Report Connections, click check boxes for all 3 PivotTables).

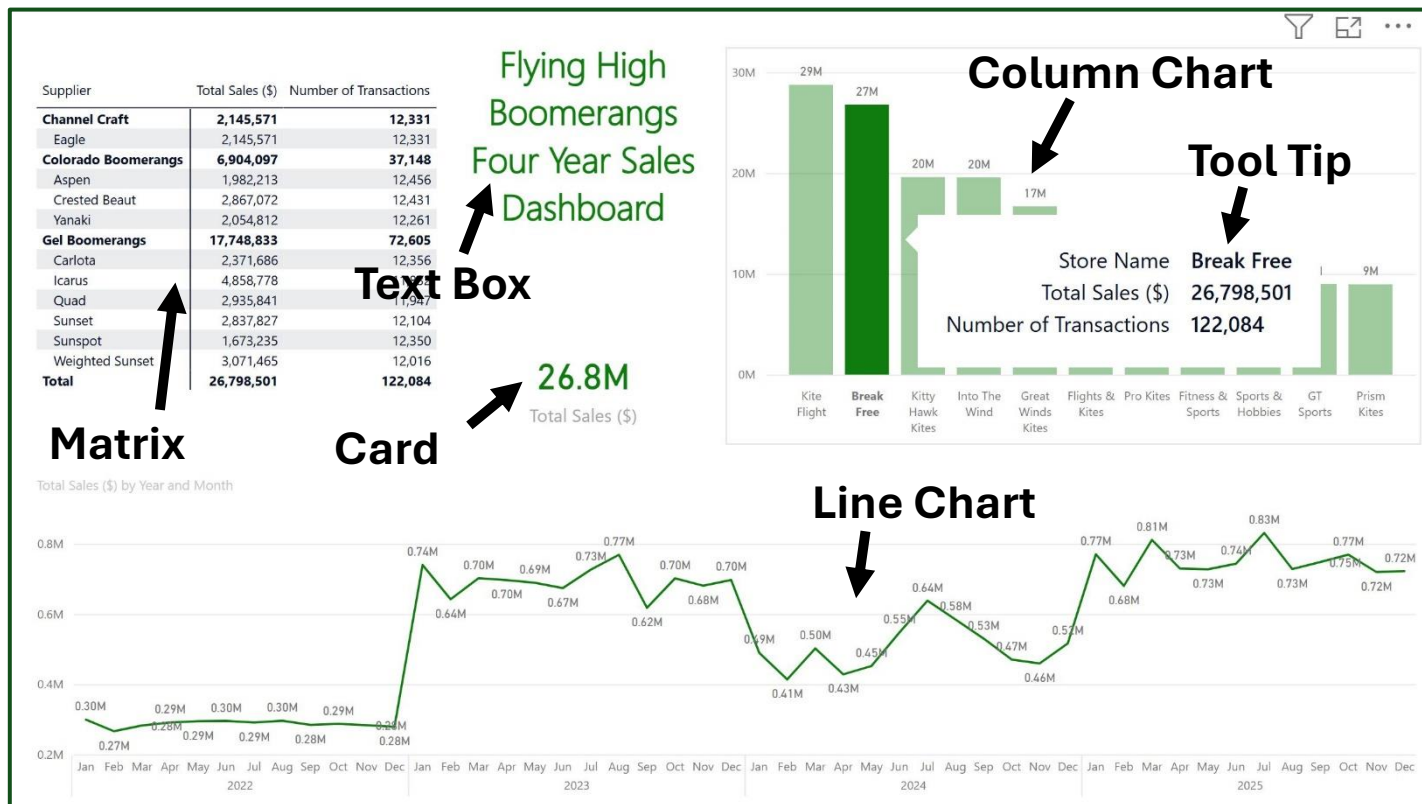
16) When you complete your work in the XX-BI348Project04.xlsx file, save the file and close it.

17) Open a new **Power BI Desktop** file and give the file the name: YourName-BI348Project04.pbix.

18) From within the Power BI Desktop file, **import the Data Model from the XX-BI348Project04.xlsx file.**

19) In the Power BI Desktop file in Report view, **create the dashboard** as shown below (types of visuals shown in 2nd dashboard):





20) When you complete the Power BI Desktop dashboard, save the Power BI Desktop file and close the file.

21) Upload The Excel dashboard file and the Power BI Desktop dashboard file to the Project 4 Upload link in the Home area of Canvas. You will upload both files to the Project 4 Upload link. Together, the two projects are worth 100 points.