# Lab 6 Advanced Data Visualization

**Time: 30 min**

**Objectives**

The Vice President of Sales for Power Cycles has requested that you create a dashboard that summarizes the company's performance for 2019. it should also be intuitive with a focus on gleaning insight into product sales in relation to location and product types.

**Design elements required.**

1. Multi-card headliner showing Total Sales, Sales Target, Variance, Variance%
2. Create a decomposition tree visual that will provide an analysis of key sales drivers with the following fields

**Explain By**

* 1. City
  2. Category
  3. Product

**Analyze By**

Create a field parameter for Total Sales and Quantity so that the report users can toggle between the two measures

1. Create a Clustered Bar chart visual that shows sales by reseller country with a hierarchy of country and state
2. Create a custom tooltip page using a table and card visual showing the total sales and the top 10 resellers and their sales
3. Create a bookmark that highlights the key marketing months of May, June, August and September and label the bookmark as “special buy” Then create another bookmark to return to the normal view labeling it “All”
4. Add the Power Cycle Logo to the report page

**A screenshot of a computer

Description automatically generated**

**Lab Steps**

|  |  |
| --- | --- |
| 1. Multi-card Headliner   * Select the card visual from the visualization panel and place the following measures into the field section   **\*\*Please note that if your current version of Power BI desktop does not have the updated card visual you can use the Multi-row visual instead however icons will not work in this visual.** |  |
| * Add the icons to the cards and format them accordingly * Navigate to the format your visual option and select the series that you would like to apply the icon before selecting the image * Repeat this step to add other icons after changing the series accordingly |  |
| 2. Create a Decomposition tree to analyze key product sales drivers.  Select the decomposition visual in the visualization panel    **Explain By Input**   * City * Category * Product   **Analyze By Input**   * Use the Total Sales and Quantity parameters created in the next step | Parameter Slicer |
| * Create a Field Parameter to include the Total Sales and Sales Quantity * From the modelling tab select New parameter -> Fields * Add the Total sales and Quantity measure to the field list * Add the slice to the report * Add the new parameter field from the data view into the Analyze input of the decomposition tree visual |  |
| 3. Create a Clustered Bar chart visual that shows sales by reseller country with a hierarchy of country and state |  |
| 4. Create a custom tooltip showcasing the top 10 resellers and their sales.   * Create a new page titled Tooltip * You will need to use a table visual with the Reseller and Total Sales measure added * Add a Multi Row card visual and add the total sales measure * From the visualization section in the page information toggle the “Allow use as tooltip” to on * Change the canvas setting type to custom with the height set to 315px and the Width to 400px | Multi Row Card Visual (Total Sales Measure )  Table visual with top 10 filter applied  Textbox |
| * From the main report page select the Sales by Reseller Country bar chart visual and in the format your visual section change the tooltip options from the default type to Report page selecting the Tool tip report page * When you hover on the Reseller Country you will now see the custom tooltip in context to the bar |  |
| 1. Create a bookmark for Special buy Months  * From the view tab enable the bookmark pane * Set a page-level filter for the “Special Buy” months of May, June, August and September * Add a new bookmark and label it “Special Buy” Then create another bookmark to return to the normal unfiltered view labeling it “All”. |  |
| * From the insert menu tab select insert and add a bookmark navigator and place it at the top of the report page |  |