Lab 3: Customizing the Experience

Part 1: Add a button animation

Load `3_1_add_a_button_animation.pbix` from the Exercises folder on the Desktop and navigate to the `Over Budget` page.

Select the "Drill" button. Change the icon displayed when the button is disabled to be blank. Change the button's text when the button is disabled to read "Select Dept".

Select the "Public Safety CIP" button and enable a border. For the default state, set the width to `0pt`. On hover, change it to `3pt`.

Perform the same work for the "Fire Apparatus" button: add a border which, by default, will be `0pt` but on hover will be `3pt`.

How many states are available for buttons?

Part 2: Working with tooltips

Create a new page and call it `Dept Tooltip`. Hide the page so that it will not appear by default in Power BI Online.

Change the size of the page to "Tooltip" and then mark the page as a tooltip.

- Create a clustered bar chart which takes up the entire space of the tooltip. Show actual amounts by date, using the date hierarchy.
- Remove month and day from the date hierarchy and expand down one level in the hierarchy to show both year and quarter in the same row.

- Remove the X axis label from the bar chart.
- Rename the chart to "Quarterly Expenditures".
- Add data labels to show values next to each bar.

- Return to the `Over Budget` page.
- Enable a tooltip on the table, setting it to use the "Dept Tooltip" report page.
- Enable a help tooltip on the table and set its report page to "Dept Tooltip" as well.

In Fiscal Year 2019, the County Attorney spent approximately $2.8 million. In which calendar year did they spend less of that budget?

Part 3: Table look and feel

Find and review the contents of the `Budget Display` measure. Then, change the department table on the `Over Budget` page to use `Budget Display` instead of `Is Over Budget`. Relabel the column as `Budget` on the table without renaming the measure.

- Add a new page called `Expenditure Lines`.
- Add `Fund Name` as the drill-through field for this report.
- Include a title card with the fund name, disabling the category label.

- Add a treemap which displays actual amounts for each level of the `Expenditure Line Items Hierarchy`. This treemap should take up approximately 75% of the width of the page. Leave enough space at the top for the title card and the "Back" button.
- Enable data labels on this treemap.

- Add a table next to the treemap. Include `Recorded Date[Date]` as the date itself, not the hierarchy.
- Change the date format to "yyyy-mm-dd" to save space.
- Then, add `Number of Expenditures` and rename the table header to "Activity".
- Finally, add the `Actual Amount`.

- Add conditional formatting on the `Activity` table column, changing the table to use data bars. Show only the data bar itself, not the number.
- Add conditional formatting to the `Actual Amount` table column. Add icons in the style of black and white filled squares based on the sum of actual amount.

Return to the Over Budget page and then drill into the Expenditure Lines report for the County Capital Improvement Fund. How many of the Actual Amount squares are filled for 2018-07-05 when you are at the top level of the treemap and are not filtering on any expenditure type?

Part 4: Edit interactions

Select the "Fire Tax District Fund" fund from the `Over Budget` page to filter all of the visuals. Note that most of the budget icons disappear save for the Fire Services department.

Edit the interactions for the "Budgets versus Actuals by Fund" chart and change the interaction with the table to None. Now note the icons which appear.

With cross-filtering disabled from the chart to the table, we are no longer looking at budget status by fund. Change it back to the Filter option and stop editing interactions for this visual.

- Navigate to the `Expenditure Lines` page and select the treemap. Then begin editing interactions for that visual.
- Change the "Apply drill down filters to" menu option to just the selected visual.

Drill up and down through the treemap and note that the table on the right does not change with your interactions, although cross-filtering when you select on a box in the treemap does still work. Return the interaction to work with all visuals on the page.

On the Over Budget page, how many departments receive funding from the Solid Waste Operating Fund?