Lab 1: Reports in Power BI

Part 1: Extend the Over Budget report

You can download the course materials from here:

https://drive.google.com/drive/folders/1oe0MYz966G2hMuwZlgqJiaKDJLfg4xYF?usp=sharing

Download Power BI Desktop from here:

https://www.microsoft.com/en-us/download/details.aspx?id=58494

Load 1_1_extend_over_budget_report.pbix from the Exercises folder on the Desktop. Rename this page to Over Budget.

Add a page-level filter to include only expense reports within fiscal year 2019. Use the Fiscal Year column instead of the Recorded Date dimension, as the recorded date for an expenditure might be in a different calendar year than fiscal year.

Add a new measure called Amount Over Budget to the Expenditures table. This measure should calculate the difference for the sum of actual amount minus all the budgeted amount. Do not forget to format this measure as a currency.

Add a new measure called Is Over Budget . This should return TRUE if the sum of actual expenses exceeds the budgeted amount.

- Create a table visual and include the department name, as well as if that department was over budget in FY 2019.
- · Disable totals on the table.
- Create a card visual which indicates the total amount over budget.

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How much was fiscal year 2019 over budget, according to the watchdog report? Format the answer as \$xxx.xxM.

Part 2: Create drill-through pages

Create a new page and title it Department Breakdown .

- On the Department Breakdown page, add a line chart showing the actual amount by recorded date.
 Be sure to use the date itself rather than the hierarchy.
- Remove the X and Y axis titles to add more room for the visual.
- Below the line chart, add a treemap which shows actual amount grouped by division and cost center.
 Make sure to use the Cost Center hierarchy, without department.
- Show the actual amount's value as a data label in the treemap.

Add Department to the drill-through fields on the page. If the Back button interferes with your line chart visual, modify your setup to make everything visible.

- Navigate back to the Over Budget page. Find "Fire and Rescue CIP" on the department table and drill through to the Department Breakdown page.
- Drill down into the Fire Fighting Equipment division one level.

How much did Wake County spend on 4th of September in 2018 on the cost center "Fire 800MHZ - Omnilink Upgrade"? Answer format: \$XXX,XXX

Part 3: Visualizing over time

Navigate to the Department Breakdown page and clear any treemap filters you may have selected and/or drill-up to the top-level of the hierarchy.

Add a measure called Number of Expenditures , which should be the count of Check Number s. Create the new measure in Expenditures table.

Reduce the size of the treemap, making available 40-50% of the space. To that space, add a scatter chart, comparing number of expenditures (on the Y axis) versus actual amount (on the X axis) by cost center, with each cost center showing in the legend.

Add the recorded year and month to the *Play Axis* for the scatter plot. Note that this is a single field in the Recorded Date dimension.

- · Change the title to "Expenditures by Cost Center"
- Remove the X and Y axis titles to make additional space
- · Move the legend to the right side of the visual
- · Return to the Over Budget page

When drilling through to the "Facilities Design & Construction" department, what is the number of expenditures the department had in November 2018 (201811)?