Lab 4: Customize a Report with Q&A

Part 1: Add the Q&A visual

Navigate to the Expenditure Lines page and ensure that you are viewing the expenditure lines report for the County Capital Improvement Fund for FY 2019. Then, resize the treemap so that it takes up 1/3 of the vertical space, leaving 2/3 at the bottom.

Add a Q&A visual to fill the remaining area.

Type in "actual amount" and review the resulting card.

Use the Q&A visual to create a chart showing the actual amount for each cost center.

Extend this chart to review the actual amount by cost center, grouped by department.

Which cost center is responsible for the largest expenditure in the County Capital Improvement Fund for FY 2019?

	Crooked Creek Park
	Oak City Multi-Services Ctr
	Cary Regional Library - Parking Deck
0	New Equipment 2019

Part 2: Working with the Q&A visual

Change the visual to display the actual amount by cost center and department as a pie chart.

This is a terrible use for a pie chart, as we have far too many items to show cleanly. Instead, let's change the visual to a treemap.

Because the Q&A visual does not allow for proper drilldown on treemaps, this is not a good visual choice either. Let's try making this a table.

Create a new query which shows the number of expenditures per Monday by department and view it as a stacked area chart. Note that you will need to use "by date Monday" to display the weekly data.

Which Monday had the greatest number of expenditures for the County Capital Improvement Fund in FY 2019? Answer in the format yyyy-mm-dd.

Part 3: Add synonyms for fields

Open the setup page for the Q&A visual and navigate to the tab for adding synonyms.

Add three synonyms: one for Department called "dept", one for Actual Amount called "expenses", and one for Number of Expenditures called "expenditure count".

Close the Q&A setup page. After the visual refreshes, change the Q&A question to show the "expenditure count" for Mondays, grouped by "dept" as a ribbon chart. Be sure to use the new synonyms for expenditure count and department.

Note that showing this data as a ribbon chart is a weird inversion of expectations: the dates are in the legend and departments are the flow elements! Instead of trying to fight with this visual, write a new query using "expenditure count" and "dept" to show the number of expenditures on Tuesdays for the Open Space department.

What is the maximum number of expenditures on a Tuesday in FY 2019 for the Open Space department in the County Capital Improvement Fund?

Part 4: Teach Q&A new terms

On the Expenditure Lines report, open the setup page for the Q&A visual and navigate to the tab for teaching Q&A to understand new questions and terms.

Add the phrase "Costly expenses for firefighters" and submit that to Q&A. You'll define the unknown terms in the next steps.

Define "costly" expenses as actual amounts greater than \$50,000.

Define "firefighters" as belonging to the department known as Fire Services. Ensure that Q&A understands your definition--note that you may need to use the word "is" in your definition to make Q&A understand.

Save the terms and close the Q&A setup page. Then, go to the Over Budget report and drill through to the Expenditure Lines report for the Fire Tax District Fund.

Use the Q&A feature to find the average of costly expenses for firefighters by expenditure line item.

What is the name of the expenditure line item with the lowest average actual amount for Fire Services in the FY 2019 Fire Tax District Fund given a minimum expenditure of \$50,000?