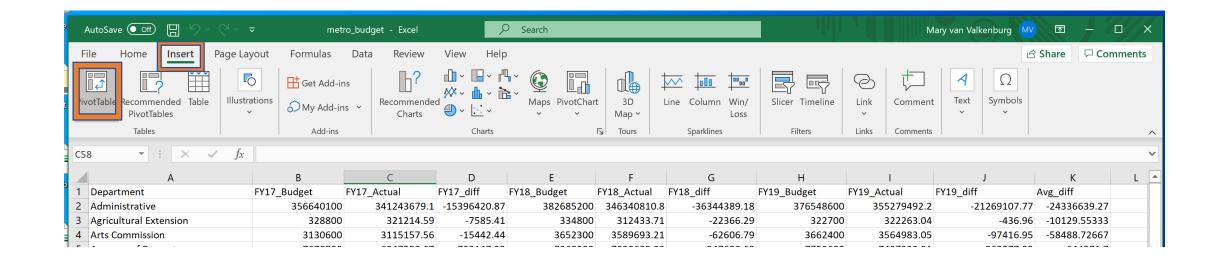
## **Pivot Tables**

# The most likely job interview Excel coding task (along with VLOOKUP) for roles that heavily use Excel.

Useful for creating reports and getting quick insights from tabular data.

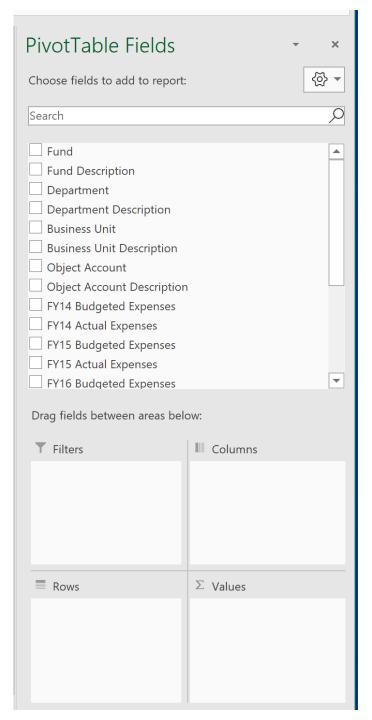
- Filter
- Sort
- Aggregate
- Analyze

Unlike Google Sheets where the pivot table option is in the Data menu, in Excel you'll find PivotTable under the Insert menu:



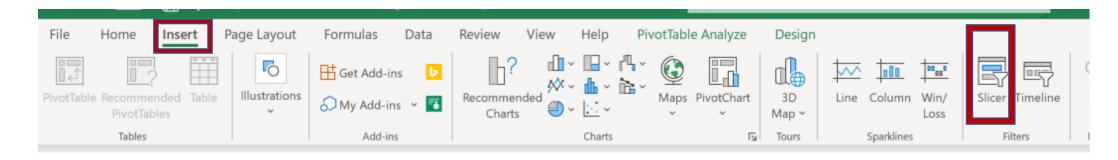
The interface also looks different, but the execution is the same.

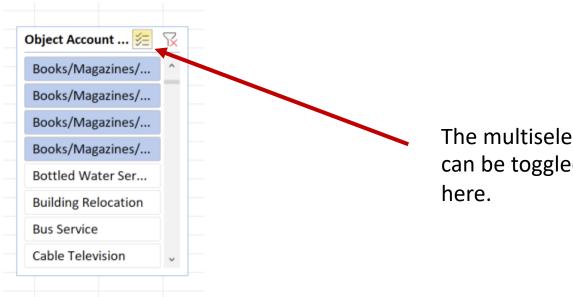
- 1. Choose rows
- 2. Choose columns
- 3. Add Values



### Using Filters in Excel Pivot Tables – method 1

**Slicers** – By choosing **Slicer** under the **Insert** menu, one or more slicers can be added to the pivot table.

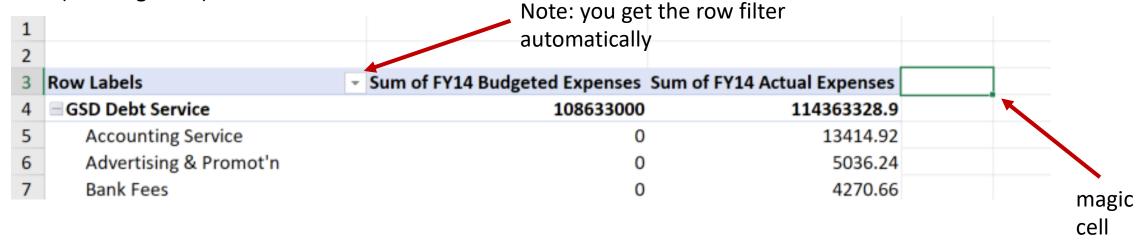




The multiselect capability can be toggled on and off

#### Using Filters in Excel Pivot Tables – method 2

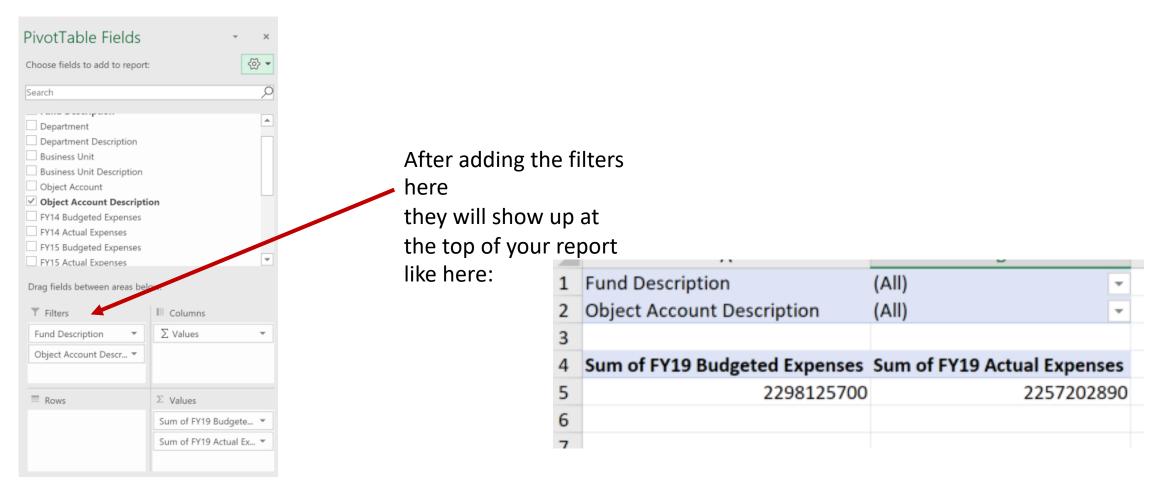
Manual Filtering (+ magic cell) – If you select the cell just to the right of the right-most column header and then choose Filter, it enables the filter for every column. This only works if you highlight that particular cell (the magic cell).



1			
2			
3	Row Labels	y Sum of FY14 Budgeted Expense y Sum of y	FY14 Actual Expense
4	<b>GSD Debt Service</b>	108633000	114363328.9
5	Accounting Service	0	13414.92
6	Advertising & Promot'n	0	5036.24
7	Bank Fees	0	4270.66

#### Using Filters in Excel Pivot Tables – method 3

**Report Filters** – You can add fields to the Filters area of the Pivot Table Fields control. You lose the detail of the subcategories and just get the summary of the filtered data.



#### **Exercises**

- 1. Build a pivot table in a new worksheet of the Metro\_Budget\_to\_Actual\_Expenses\_\_FY14-Present workbook.
- a. Call the worksheet **high\_expense**.
- b. Use Department Description for the Row.
- c. Create two Values (Sum of FY19 Budgeted Expenses and Sum of FY19 Actual Expenses.
- d. Add a filter to show only those departments that had actual expenses that were over \$100 million.
- 2. Create a new pivot table in the same workbook.
- a. Call the worksheet for this pivot table **training**.
- b. Add both the Department Description and the Business Unit Description to the Rows.
- c. Filter the Business Unit Description to show only the items that contain the word *training*.
- 3. Create **three more pivot tables** *one* **at a time** to show FY19 budgeted and actual expenses for the MNPS General Purpose (Fund Description) spending on Books, Magazines, and Periodicals (Object Account Description).
- a. Call the first one filter\_slicers and use two slicers to filter the report.
- b. Call the second one filter\_manual. Use the magic cell to create manual filters in order to filter the report.
- c. Call the third one filter\_report. This time add filters in the pivot table fields control.