Introduction to DAX & Custom Visuals

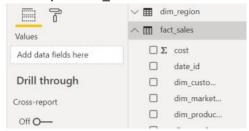
Read Me: This lab builds on the previous labs for our product sales project. You will be focusing on visualization.

Lab Time: 30 minutes

Exercise 1: Introduction to DAX

In this exercise you will create some DAX Calculations, you can copy and paste the syntax to your report.

- 1. If you do have your Power BI desktop report open, please go ahead and open it. This lab builds on the previous completed labs.
- 2. Choose your fact_sales table

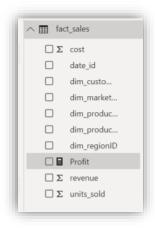


- 3. Click on **New Measure** in **Table tools** in the ribbon
 - a. In the formula bar, create profit calculation
 - i. Create Profit

Profit = sum(fact_sales[revenue]) - sum(fact_sales[cost])



The table should now have a Profits Measure



ii. Create YoY Revenue



```
Revenue YoY % = DIVIDE(sum(fact_sales[revenue]) -
CALCULATE(sum(fact_sales[revenue]) ,
SAMEPERIODLASTYEAR('dim_date'[date])),
CALCULATE(sum(fact_sales[revenue]) ,
SAMEPERIODLASTYEAR('dim_date'[date])))
```

To format your formula to make it readable use **Alt+Enter** or **Shift-Enter** keyboard shortcuts to go to next line.

iii. Create AI, General Purpose and Utility Revenue

```
AI Revenue = SUMX(FILTER(fact_sales,

RELATED(dim_productcategory[ProductCategory_name])="AI"),fact_sales[re
venue])

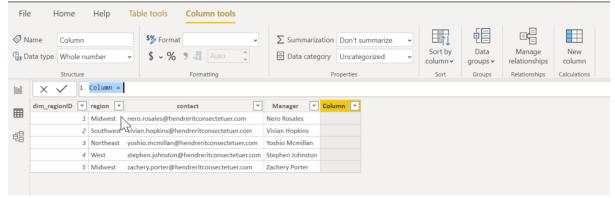
GP Revenue = SUMX(FILTER(fact_sales,

RELATED(dim_productcategory[ProductCategory_name])="General
Purpose"),fact_sales[revenue])

Utility Revenue = SUMX(FILTER(fact_sales,

RELATED(dim_productcategory[ProductCategory_name])="Utility"),fact_sal
es[revenue])
```

4. Change table to dim_region and create a calculated column



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LAB 04: Reports

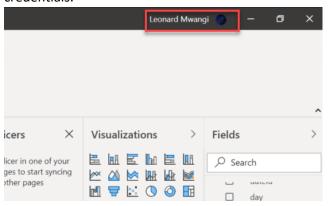
Split Manager name to get first name

First name = LEFT(SUBSTITUTE(dim_region[Manager]," ","-"),SEARCH("-",SUBSTITUTE(dim_region[Manager]," ","-"))-1)

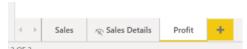
Exercise 2: Custom Visuals

In this exercise you will import some custom visuals to enhance your report.

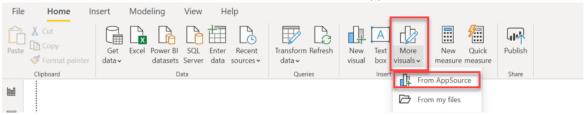
1. Make sure you are signed into Power BI Desktop, if you are not click sign in and use your domain credentials.



2. Create a new Report Page and name it Profits



- 3. Navigate to More Visuals on the home tab of the ribbon
 - a. On the ribbon make sure the Home tab is selected and click on from MarketPlace which is accessible from **Home** Tab → More Visuals → From AppSource



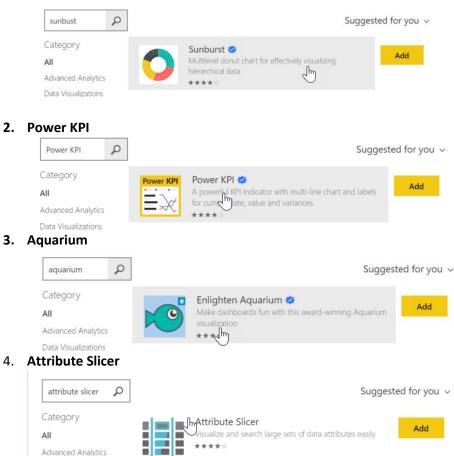
b. Review different visuals from the marketplace



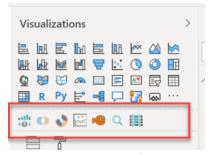


i. Search for the following visuals and click add

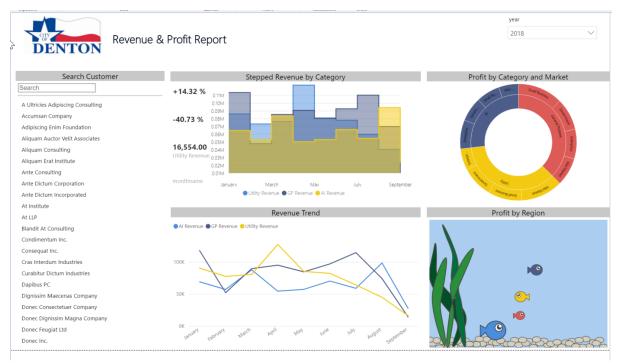
1. Sunbust



4. All the added visuals should show up in your Power BI visualization section.



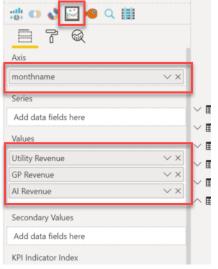
5. Add visuals to the Profit Page – you can identify the visual by placing your mouse over it. Here is the result



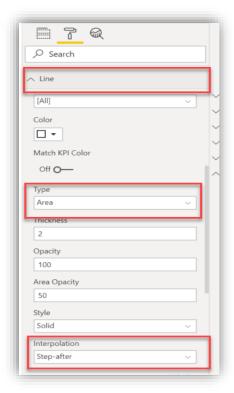
a. Add Attribute Slicer and add Customer_Name to the visual



b. Add Power KPI visual and include Utility Revenue, GP Revenue, Al Revenue



i. Format the visual Line section as below.



- c. Add a Sunbust visual, add ProductCatagory_Name, Market and Profit
- d. Add Line Chart to show trend, add monthname, Al Revenue, GP Revenue and Utility Revenue
- e. Add Aquarium Chart include profit and Region.
- 6. Save your Report

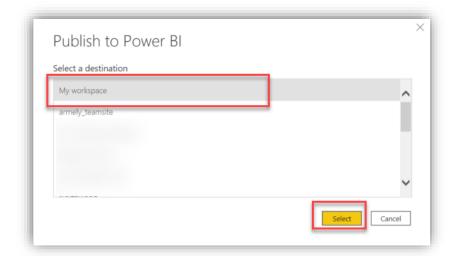
Exercise 3: Publish Report

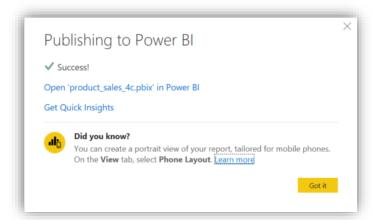
In this exercise you will publish the report to Power BI Service.

- 7. Publishing Report
 - a. From Home tab in the ribbon, click on Publish to publish your work



b. Select My Workspace and click Select





You have completed this lab for reports, you will continue to work on this project in subsequent labs.