# DEMO 4 - Advanced Calculate Function and DAX Patterns

**Demo Objectives**

1. Create a DAX measure that produces the percent of the total for each Sub-Category
2. Create a DAX measure that produces the running sales total for 2016
3. Create a DAX measure that will show sales by ship day in comparison to the order date
4. Create a DAX measure that uses the filter modifier to return all states with sales greater than 20,000

**DEMO Steps**

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| 1. Create a DAX measure that produces the percent of the total for each Sub-Category | % to total =  DIVIDE (      [Total Sales],      CALCULATE ( [Total Sales], ALL ( 'Sub-Category'[Sub-Category] ) )  ) |
| 2. Create a DAX measure that produces the running sales total for 2016  **\*\*Note use a visual-level filter for this visual to be filtered on the year 2016** | Running Total =  CALCULATE (      [Total Sales],      FILTER ( ALL ( Cal\_tbl[Date] ), Cal\_tbl[Date] <= MAX ( Cal\_tbl[Date] ) )  ) |
| 3. Create a DAX measure that will show sales by ship day in comparison to the order date | Sales By Ship Date = CALCULATE([Total Sales],USERELATIONSHIP(Cal\_tbl[Date],Sales[Ship Date])) |
| 4 . Create a DAX measure that uses the filter modifier to return all states with sales greater than 20,000 | Sales > 20k = CALCULATE(              [Total Sales],FILTER(Location,[Total Sales]>20000)) |
| recommended view to display the DAX measures in the report |  |
|  | **Please refer to the completed Demo 4 PBIX file for reference** |