- 1. Using the Global Superstore.xls do the following:
  - (a) (3 points) Load the Orders sheet.
  - (b) (4 points) Create a new field called Half Year using the below formula.

```
IF DATEPART('month', [Order Date]) < 7
          THEN '1st half of year'
          ELSE '2nd half of year'
END</pre>
```

- (c) (5 points) Create a visualization that shows the total sales for each half of the year. Also, include Sub-Category as filter.
- (d) (3 points) Select Phones in the filter from your visualization in part (c). Which half of the year has the higher sales?
- (e) (5 points) Open a new worksheet. Create a new parameter called Product Search, set the data type to string, and leave the current value blank. After the parameter has been created, add the associated parameter control to the view. Then, create a new calculated field, call it Product Match, and enter the following formula:

```
CONTAINS(LOWER([Product Name]), LOWER([Product Search]))
```

- (f) (5 points) Create a visualization that shows the total sales by product name.
- (g) (3 points) Enter apple in the Product Search. What is the most selling apple product?

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<sup>&</sup>lt;sup>1</sup>Make sure you submit a \*.twb file in Blackboard.