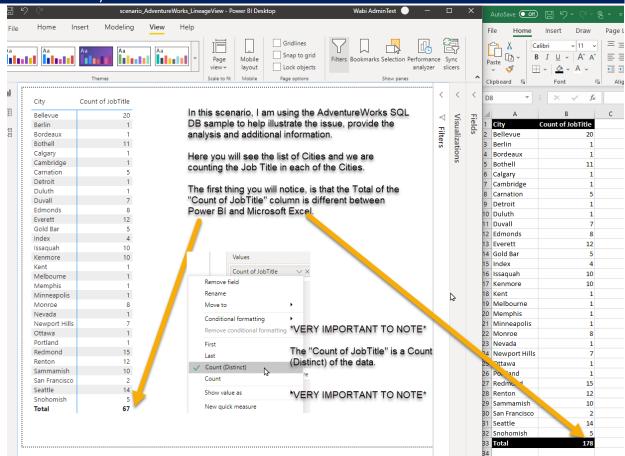
Scenario: Overview of Scenario

Scenario: Reduction of data for Problem Isolation Scenario: Reduction of data with New Measure Scenario: Non-Filtered data with New Measure

Conclusion

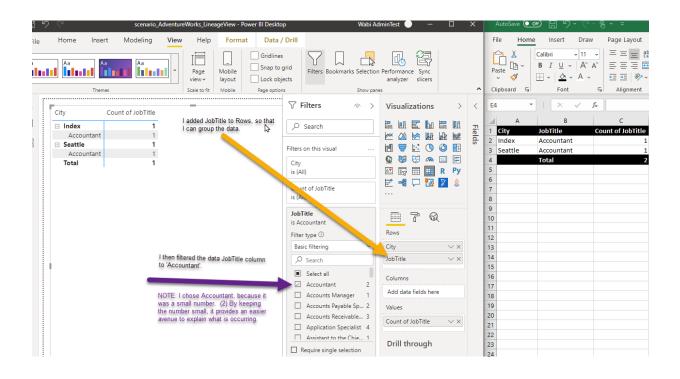
## Scenario: Overview of Scenario

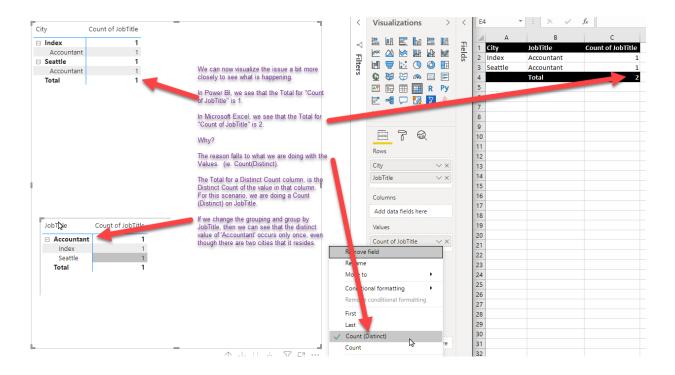
- **Scenario Description**: In this scenario, data is displayed in either a Table Visual and/or a Matrix Visual. One of the columns is executing a count of data and thus displaying a numeric value. When data is counted like this, a Total Row appears. This data is then exported to Microsoft Excel. Then to compare the data and ensure that numbers are displaying correctly and totaling correctly, the data is summed in Microsoft Excel. This data does not match the data that we see in Power BI.
- **Data**: Distinct Count of Job Title per City
- Dilemma: The summed data in Microsoft Excel does not match that of the Total Row in Power
   BI. Why?



## Scenario: Reduction of data for problem isolation

- **Goal**: My goal here is reduce the amount of data I am working with here, so to simplify the issue and be able to provide a clear explanation as to what is occurring here. In doing so, I will be grouping and filtering the data.
- Data: Distinct Count of Job Title per City Filtered on Job Title = Accountant
- Discovery:
  - The Total Row in Power BI for a Count(Distinct) is a Distinct Count of all of the data for the Column that is being Counted, regardless of groupings.
  - The Total Row in Excel is a Sum of the Count.





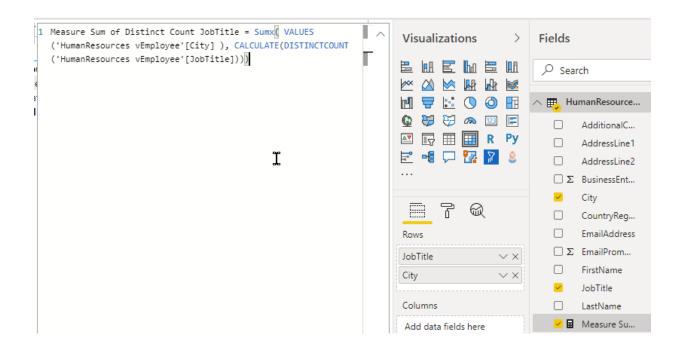
## Scenario: Filtered Data with New Measure

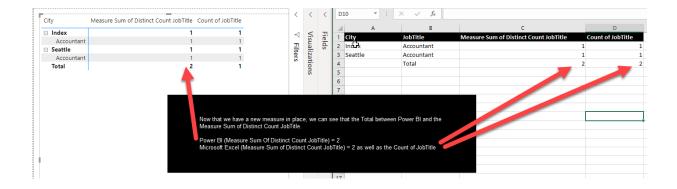
- Goal: The goal here, is to see if we can add a column to the visual (Table or Matrix) that will have the same Total as Microsoft Excel, once exported and summed. In doing so, we will need to add a New Measure to be able to sum the data and have it resemble the same number when exported to Excel. Initially, we will keep the data filtered, so that we can see this visually with a reduced amount of data.
- Data: Distinct Count of Job Title per City Filtered on Job Title = Accountant
- Challenge:
  - How to have the Total Row be the Sum of the Data for the Count(Distinct) Column, so that when exporting to Excel the data resembles each other.

First, need to create the new Measure.

**MEASURE** 

Measure Sum of Distinct Count JobTitle = Sumx( VALUES('HumanResources
vEmployee'[City] ), CALCULATE(DISTINCTCOUNT('HumanResources
vEmployee'[JobTitle])))





## Scenario: Non-Filtered Data with New Measure

- **Goal**: Now, let's look at all of the data together so that we can see the output with the new measure in place.
- **Data**: Distinct Count of Job Title per City Not Filtered
- Snapshots with the New Measure Column being added

