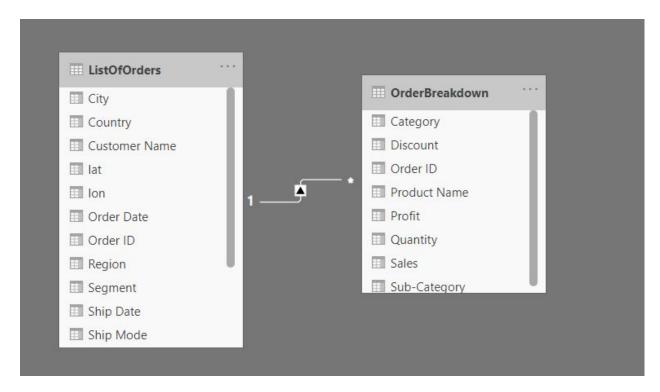
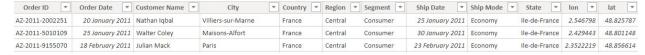
Challenge:

To prepare a visualizing BI report for finding profit margin regions in Europe from below dataset:



Analysis:

1) Add the desired data file into the Power BI, in this case we have Excel file which contains following columns:



- 2) Load the data into Power BI, now it will be visible in Report, Data and Model sections.
- 3) Add a Map on the workspace from the Visualization window.
- 4) Create a hierarchy 'Geography' in which add columns (country, state, city) and add in the Location section.
- 5) Add Latitude and Longitude columns in the respective sections for better accuracy of the locations.
- 6) Now, put the Sales column in the Size section.

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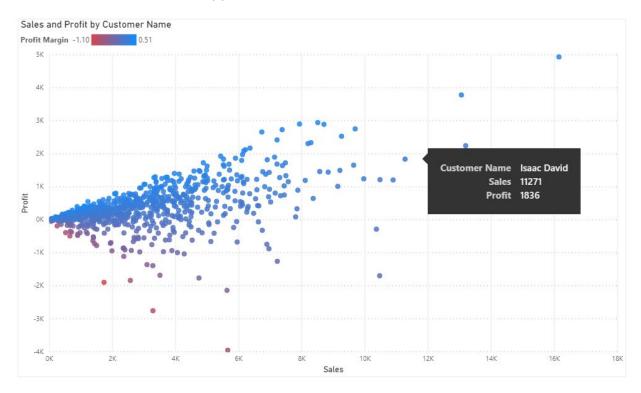
6) For calculating profit margin we need to create a new column in our data set 'NewMeasure'. Profit Margin = SUM(OrderBreakdown[Profit]) / SUM(OrderBreakdown[Sales])



In the above chart, **blue** circles are profit regions and **red** circles are loss regions.

- 7) Now, lets create a Scatter chart, for getting the profit margins in respect to customers.
- > add 'Scatter Chart' on the workspace, with Sales on X axis and Profit on Y axis.
- > for color saturation add profit margin column.

Here how visualization will appear:



- > Now for the final bi report we need to add these above two charts on the final workspace,
- > For adding just copy these charts and paste on the final chart workspace.
- > Now we will add some filters of Region and Order Date using Slicer, on the final chart and a Donut Chart.
- > With help of filters, we can see profit margins with desired Order Date or respective regions, by selecting any of them changes will be reflected on all charts accordingly.
- > Here final report for getting visualisation of profit margins:

