

Charts

In this lab, we are going to use three types of charts.

We use the report of the previous lab on groups and variables. (The one which displays for each city, each region, each country the total, the average and the maximum freight weight).

Pie

The first chart is a **3D pie** chart that uses the main data from the report. It is displayed in the summary section and illustrates the distribution of the total freight weight according to the 10 most important countries.

Pie charts use *PieDataset* defined by:

- **key expression:** A unique identifier of one section of the pie chart
- **Value expression:** The value associated with the key
- **Label expression:** The label displayed in the label. If this is not specified, the value of the key is used

Add hypertext links on the sections of the pie chart pointing to the country headings.

Thermometer

The second graph is a **thermometer** using the main data from the report.

It is displayed at the end of each country group. This chart shows whether the average order weight is within a profitable range.

If a country's average weight is less than 30, the thermometer is red.

If the average weight of a country is between 30 and 100, the thermometer is yellow.

If a country's average weight is over 100, the thermometer is green.

Line

The third type of chart is a **Time Series chart**. It uses a specific dataset and it is placed at the end of each country group.

This graph shows the evolution of the total freight weight and the number of orders month by month (use the ORDERDATE field).

For this type of chart, we use a **CategorySet** defined by:

- **Series:** A series usually results in a plot in a specific color. It is itself made up of:
 - The **expression of the series:** In general a constant. If an expression is used is that this expression takes different values. Several series are generated
 - **Category expression:** The name of each sample. The x-axis
 - The **expression of the value:** A number. The y-axis
 - **Label expression:** Optional

The expected result is provided in PDF format.