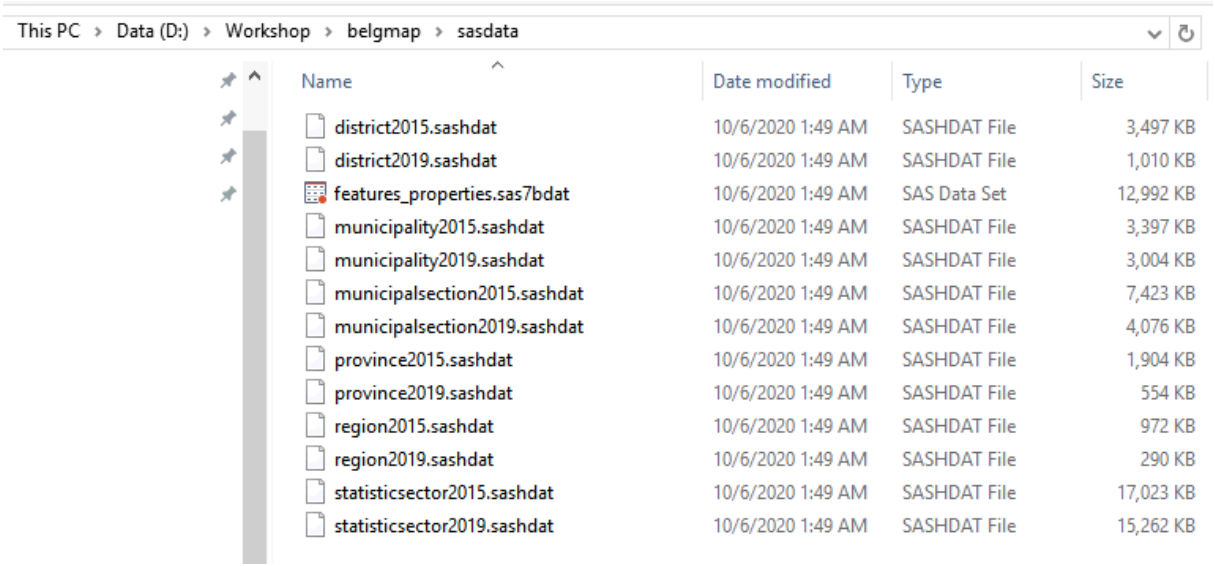
Custom Geographic maps with Belgian Administrative Boundaries

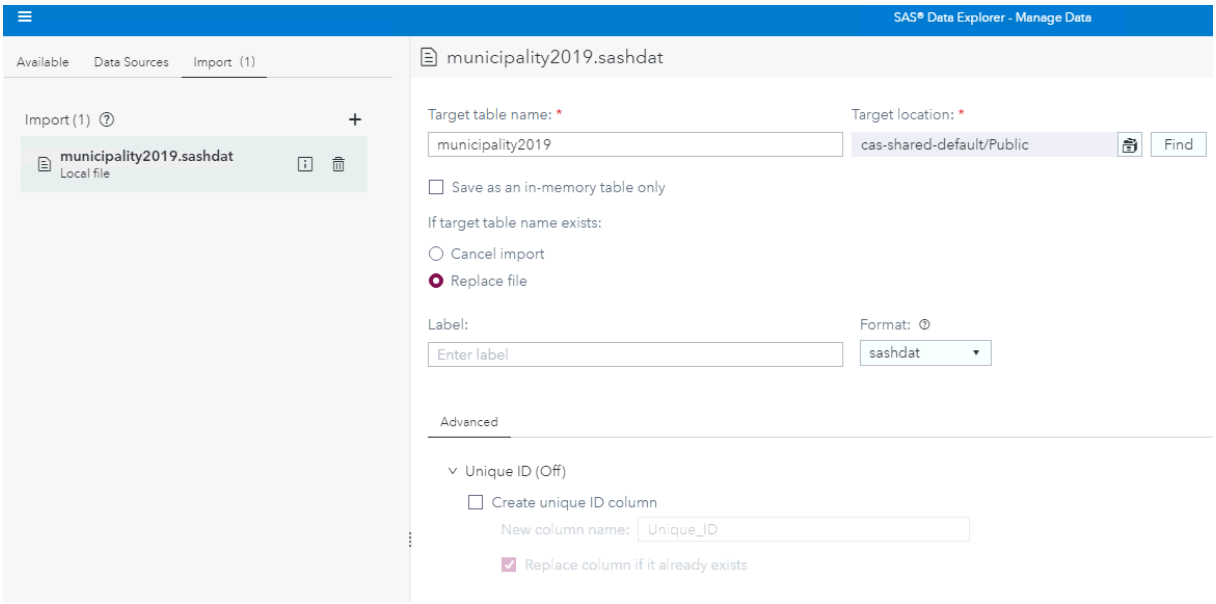
1) Go to https://github.com/paulvanmol/belgmap and download a copy of the repository.
2) Select mapsviya.zip and unzip it to a folder on your computer:



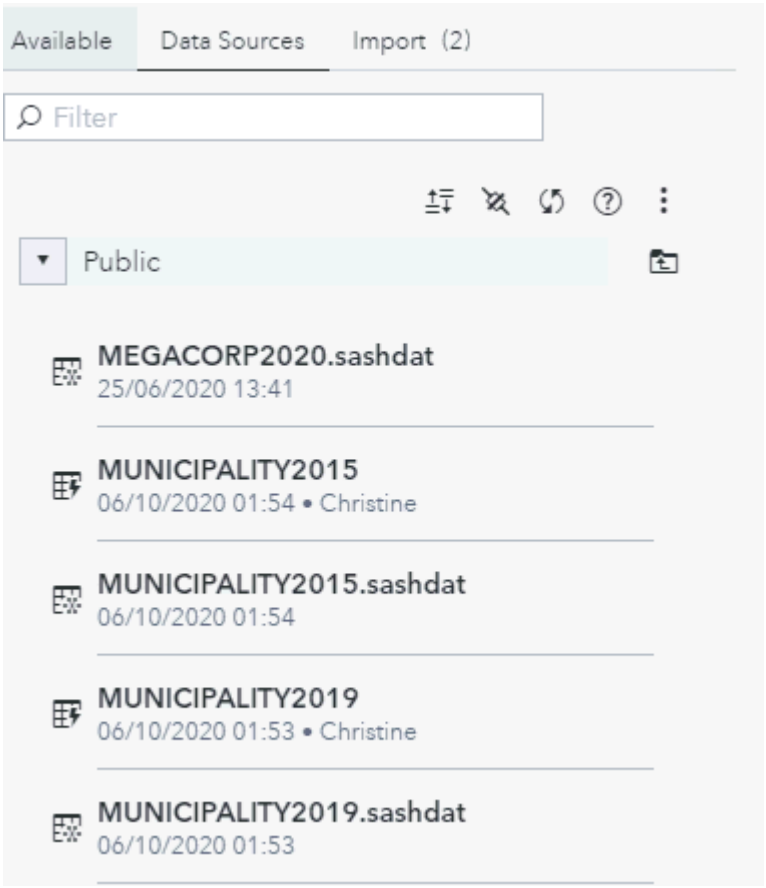
3) Go to SAS Drive and login as a user with Administrative Capabilities (on our training image: Christine+Student1
4) Import Polygon datasets:
   There are polygon datasets with information of municipalities in 2015 and 2019. $
   To load the maps of the most recent information you can select the maps with the 2019 suffix.

   - Region: region2019.sashdat
   - Province: province2019.sashdat
   - District/Arrondissement: district2019.sashdat
   - Municipality: municipality2019.sashdat
   - MunicipalSection: municipalsection2019.sashdat
   - StatisticalSector: statisticalsection2019.sashdat

   To load the polygon dataset in memory, you can import them
5) Select Manage Data>Import>Local Files>
6) Select /belgmap/sasdata/municipality2019.sashdat and municipality2015.sashdat



7) Select Data>Data Sources>Public and verify that the imported files are now available in your public library

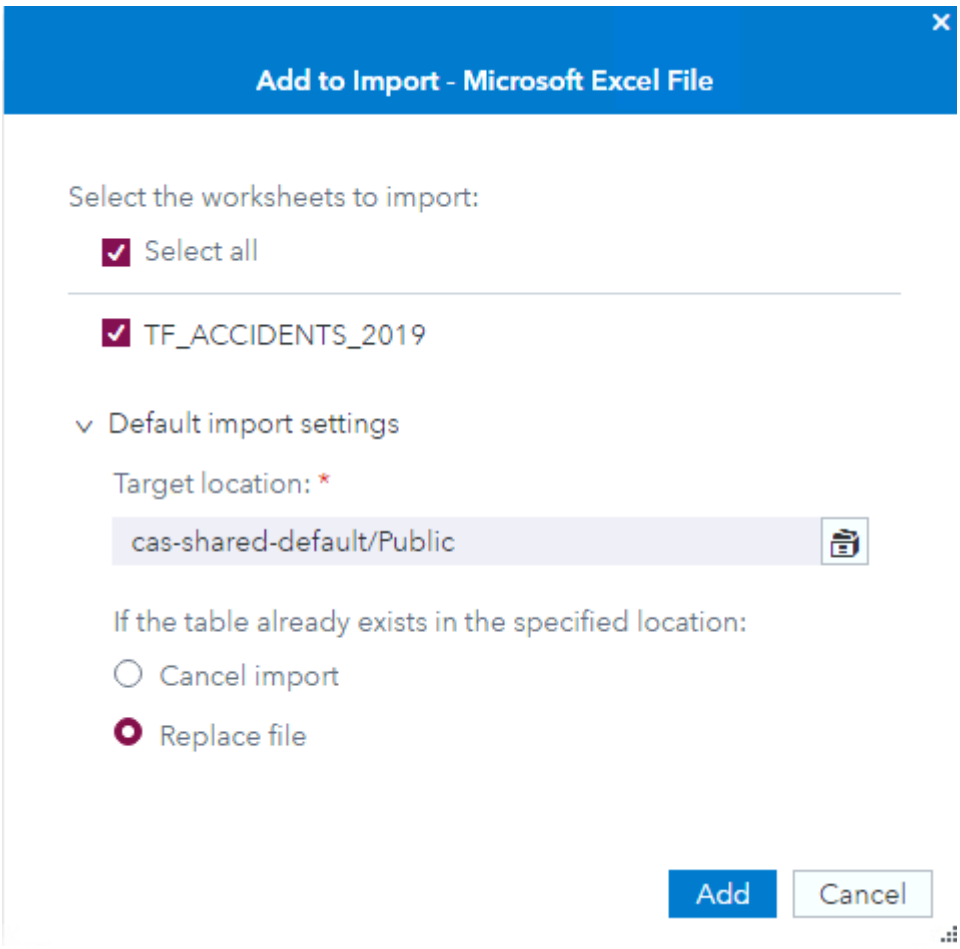


The datasets contain both the NISCODE and the IDNAME as keys to the geographical regions.

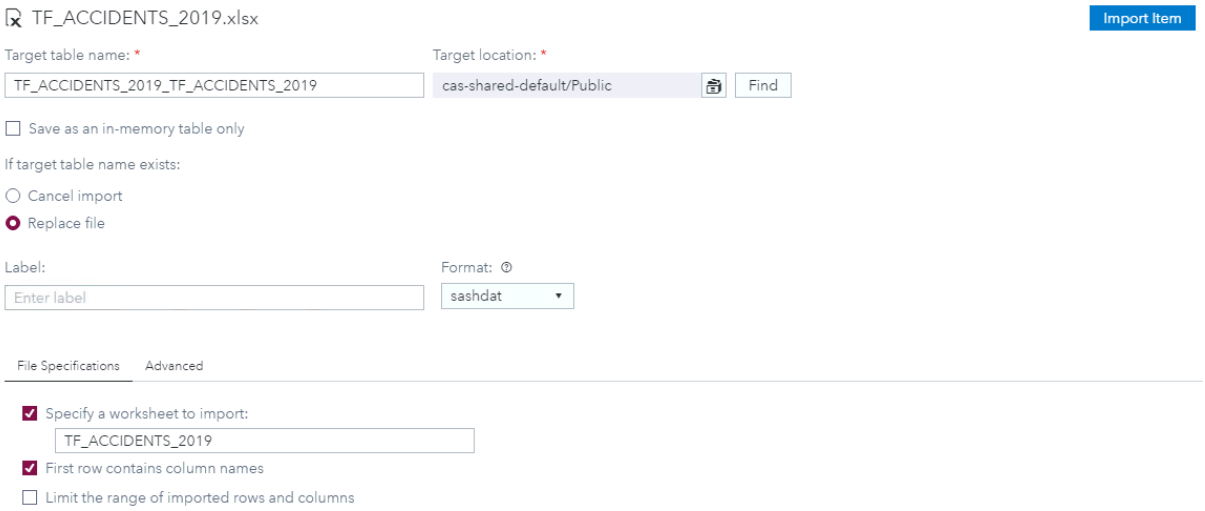
Create a Report on Road Accidents in Belgium:

Go to Explore and Visualize to access Visual Analytics.

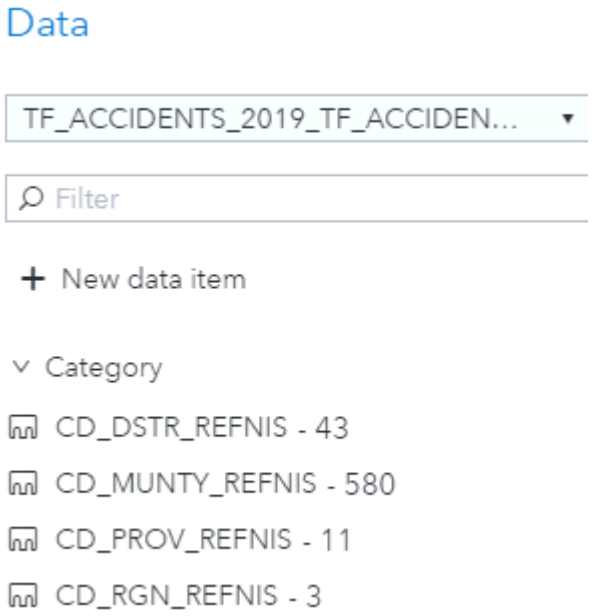
To insert some relevant data, you can download Accidents data for 2019:
https://statbel.fgov.be/en/open-data/road-accidents-2019
TF_Accidents_2019.xlsx.
Select Import Local Files>



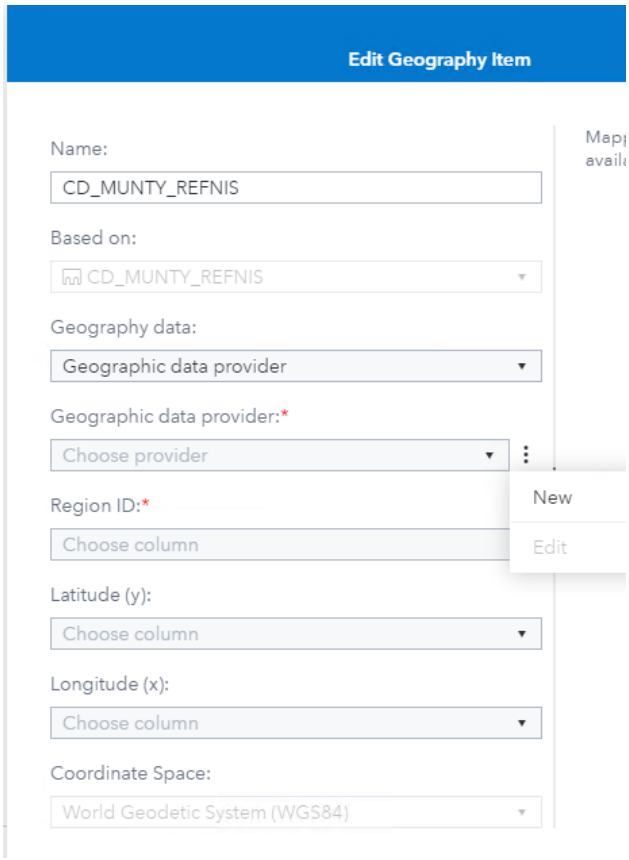
Finish by clicking Import Item and then click OK.



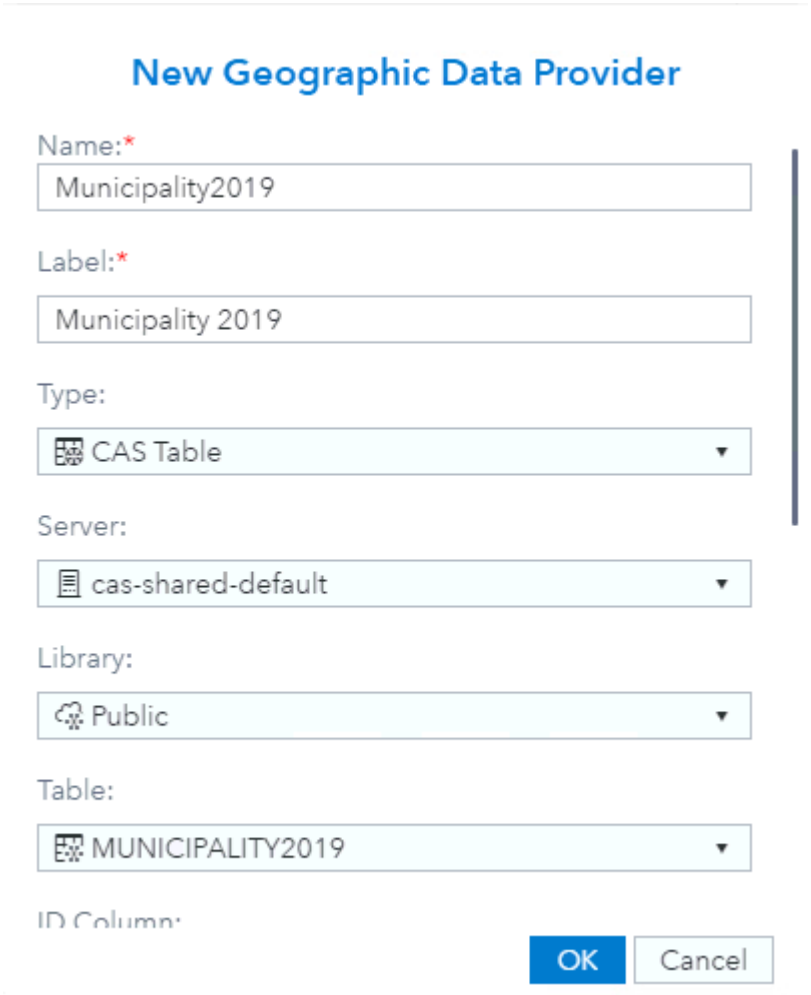
In the Data Panel:
You can select the Data Items:
CD_MUNTY_REFNIS (Niscode of Municipality).
Change the Classification from Category to Geography



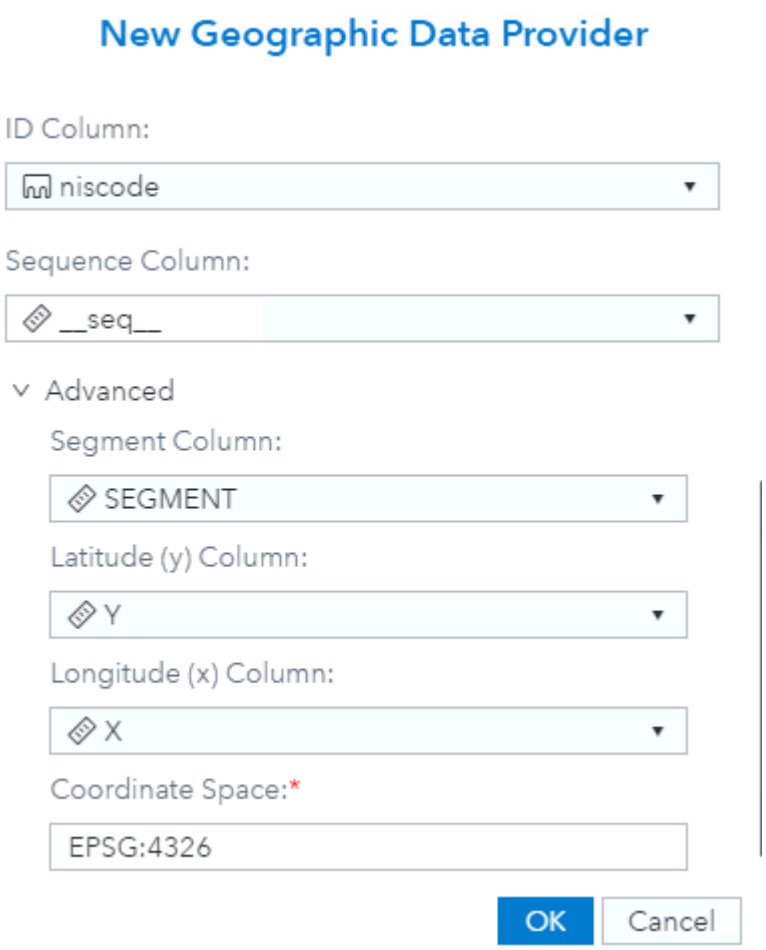
In the window: Edit Geography Item:
In the Geography Data:
Select Geographic data provider
Geographic Data provider: select New



In the window: New Geographic Data Provider:
Enter following information:
Name: BE_Municipality_REFNIS
Label: BE Municipality REFNIS 2019
Type: CAS Table
Server: cas-shared-default
Library: Public
Table: Municipality2019

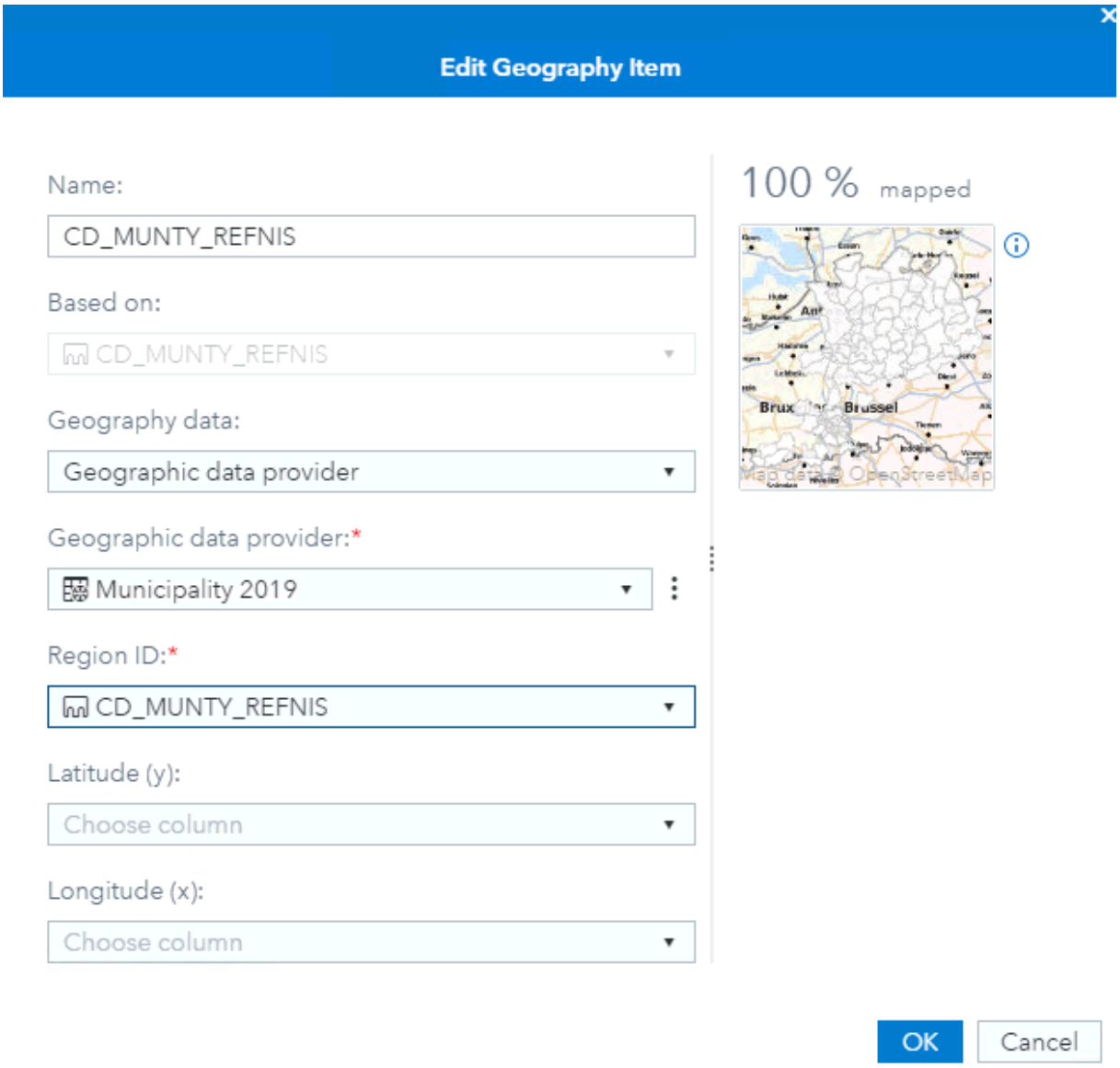


Fill in additional columns:
ID Column: niscode
Sequence Column: __seq__
Advanced: Segment Column: Segment

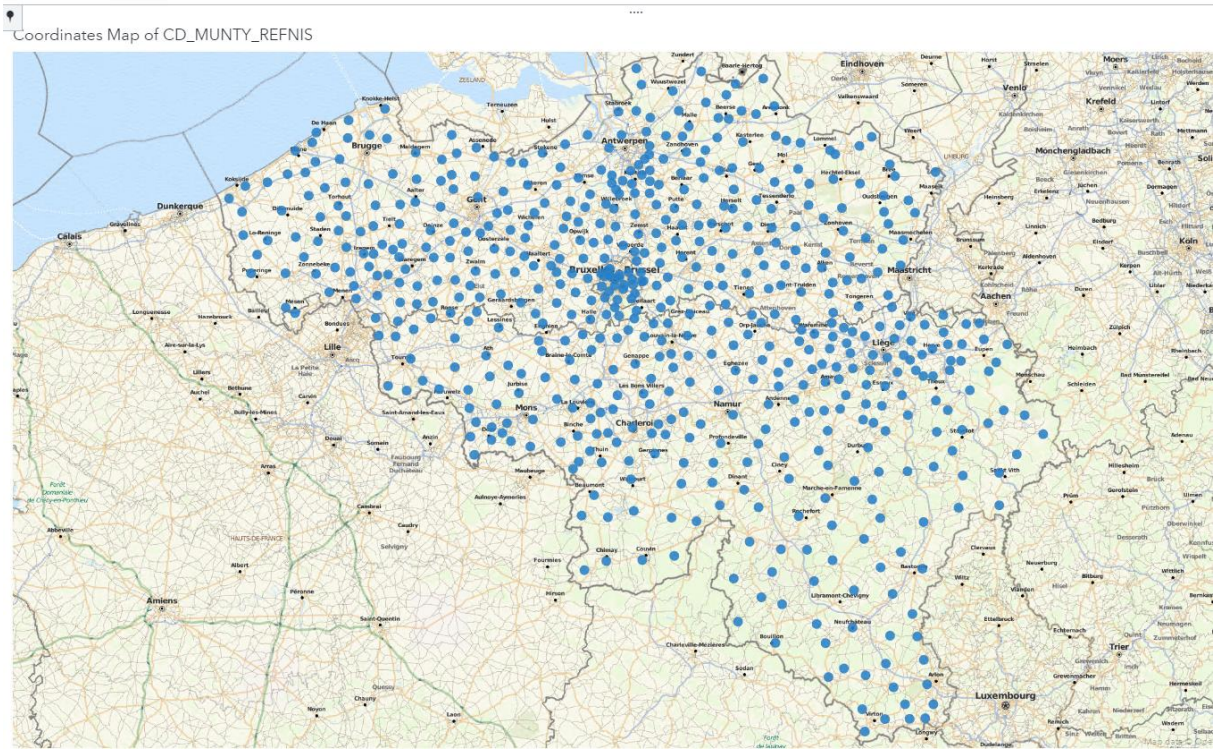


Once the Geographic Data Provider is created, fill in the Region ID: to the CD_MUNTY_REFNIS.

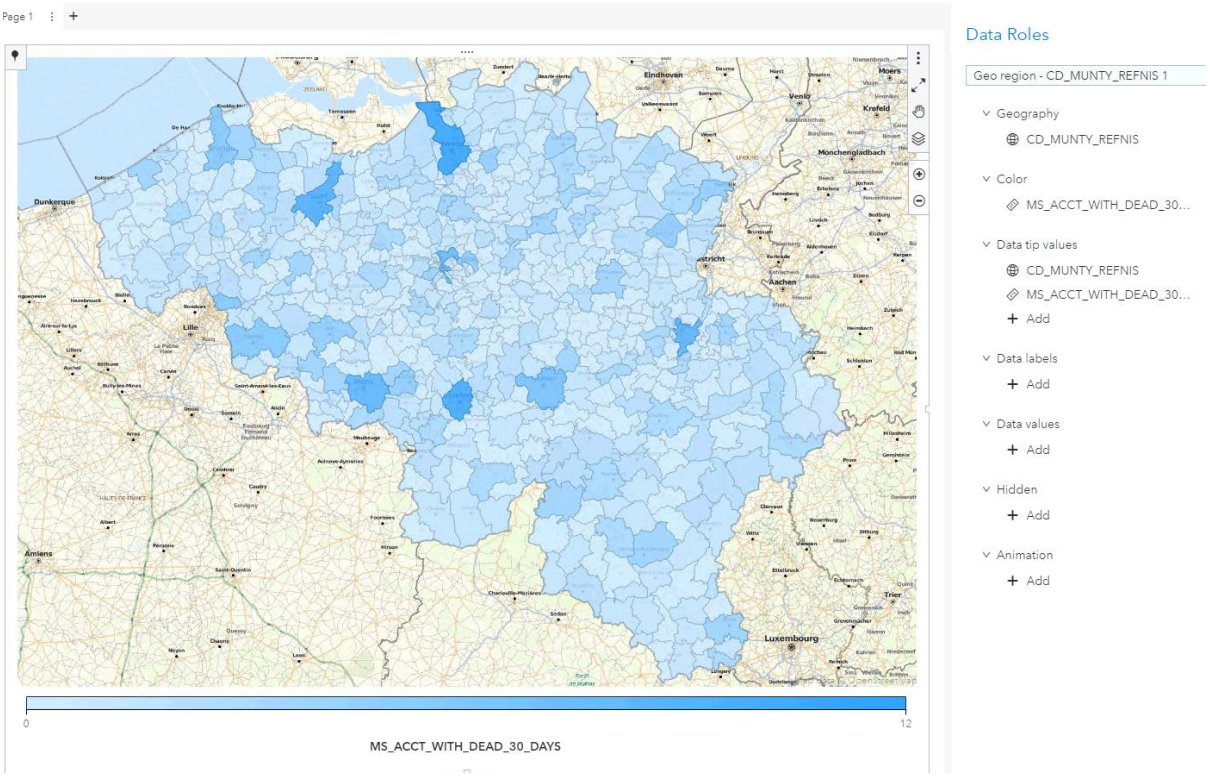
Check out


Edit Geography Item
Name:
CD_MUNTY_REFNIS
Based on:
CD_MUNTY_REFNIS
Geography data:
Geographic data provider
Geographic data provider:*
Municipality 2019
Region ID:*
CD_MUNTY_REFNIS
Latitude (y):
Choose column
Longitude (x):
Choose column
100 % mapped
Brux
Brussel
OK
Cancel

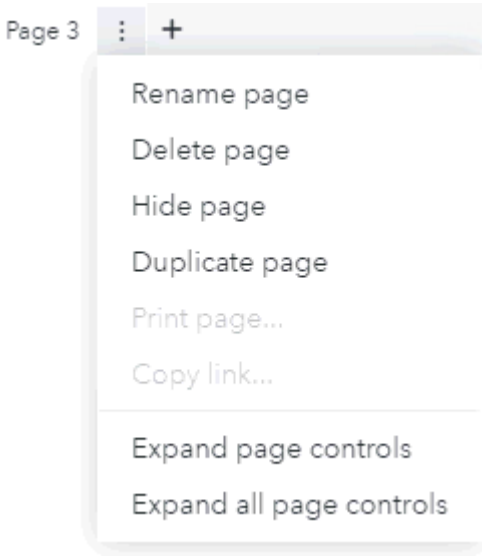
Add the CD_MUNTY_REFNIS to the Report: Using AutoChart, the default Visualization is a Geographic Coordinate Map using Frequency as Measure.



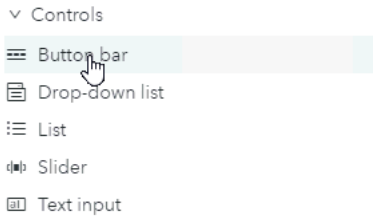
You can change the Coordinates map to a Region Map:
Select the snowman menu of the Visualisation and change it to Region Map.
And add the Measure MS_ACCT or MS_ACCT_With_DEAD_30_Days:



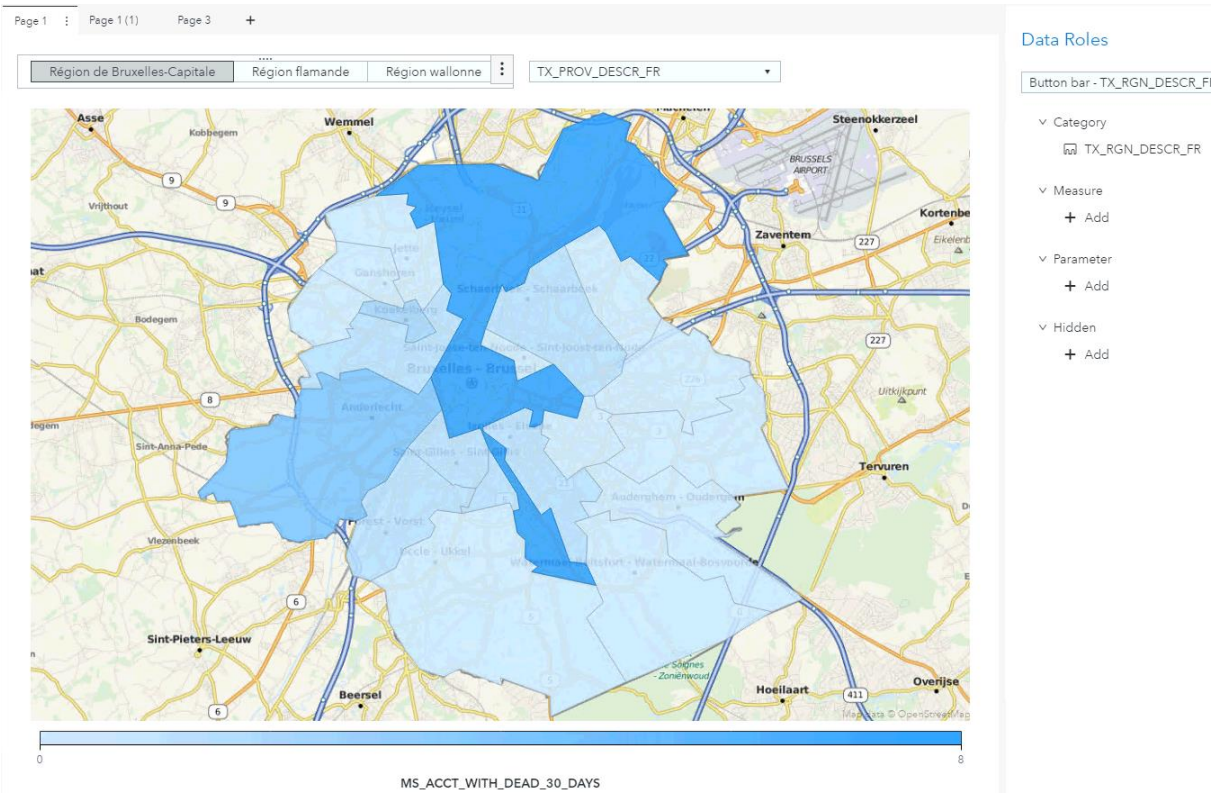
Add a Button Bar to the Control Area of your page:



Drag the Button Bar Control object to the Page Controls area:

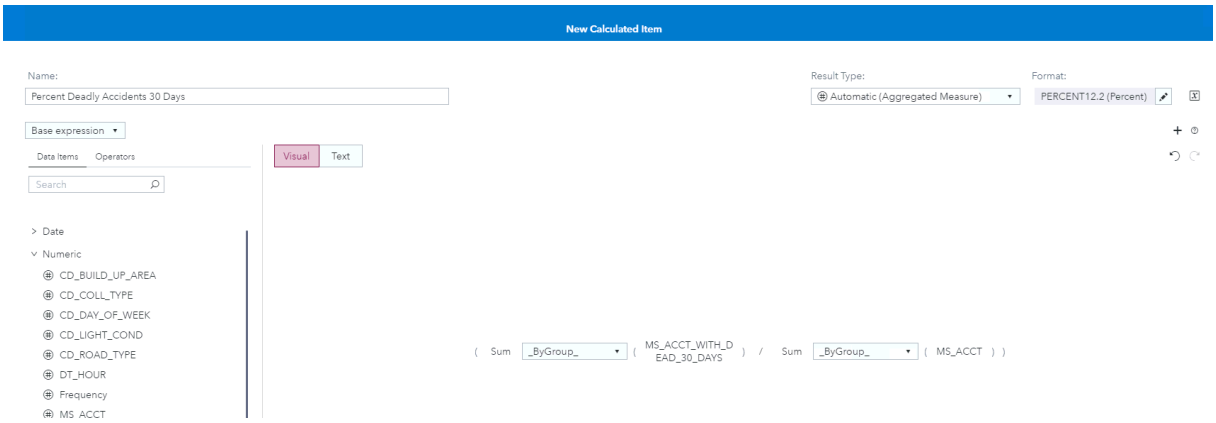


Add the TX_RGN_DESCR_FR as category to the button bar and test it to subset the map.

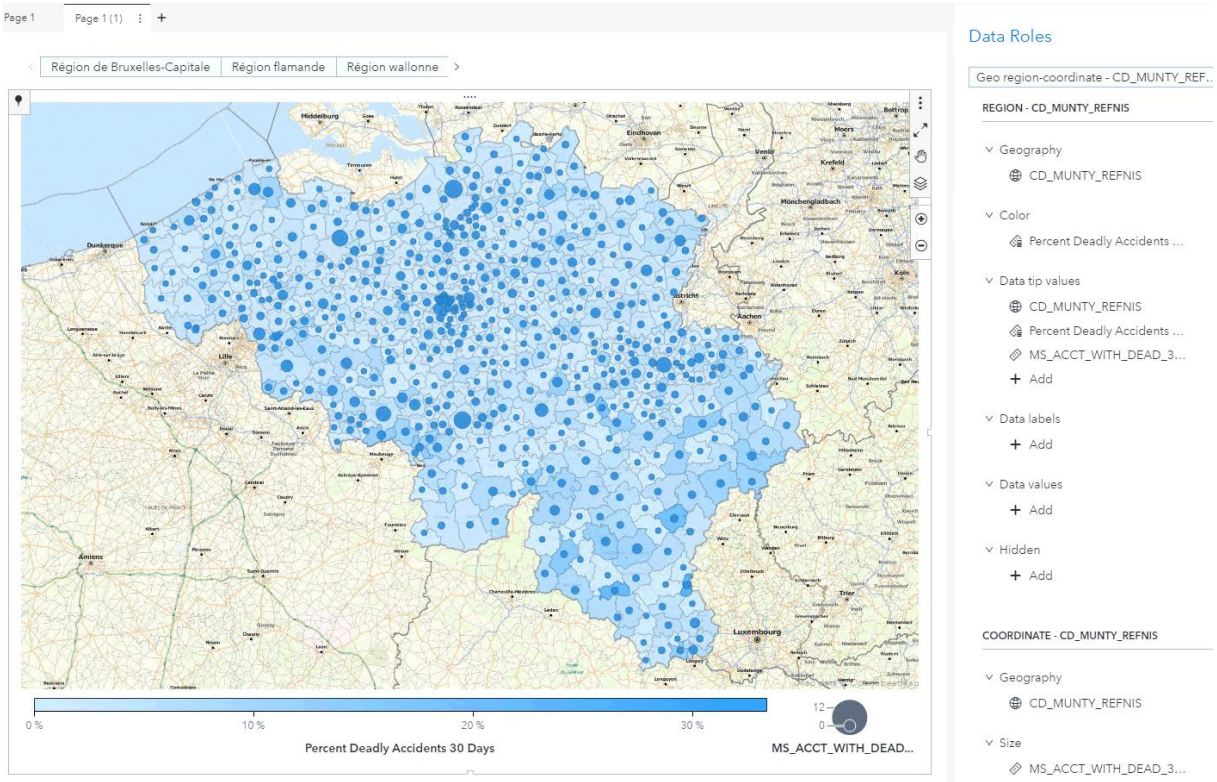


Finally it is also possible to use the combination of a Region and Coordinate map:

1) Optional: Add a calculated measure: Percent Deadly Accidents 30 Days
   Ratio of sum(_bygroup_(MS_ACC_WITH_DEAD_30_DAYS)/sum(_bygroup_(MS_ACCT)

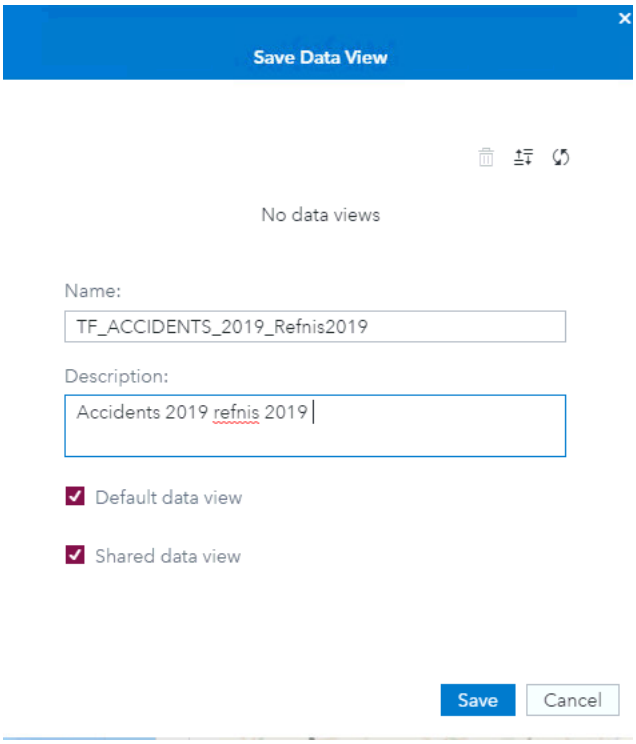


Make a copy of the previous page:
Change the Map object to Region-Coordinate map:
It allows you to create a map with 2 layers:
Region Map: use CD_MUNTY_REFNIS as Geography + Percent Deadly Accidents 30 Days to color the regions.
On the Coordinate Map, use the MS_ACC_DEAD_30_DAYS to size the Bubbles.



Save your report in the Folder: My Folder >Belgium Geo Maps

Save your data settings as a Data View:


Save Data View
No data views
Name:
TF_ACCIDENTS_2019_Refnis2019
Description:
Accidents 2019 refnis 2019
Default data view
Shared data view
Save
Cancel