EO-RDF data cubes

To access the EO-RDF data cubes

access the following URL: **http://steamerlod.imag.fr** and

connect to the TRACES repository

Choose the TRACES repository

Select the SPARQL component to write or paste the queries from our Repository: **https://shorturl.at/EpKXm**
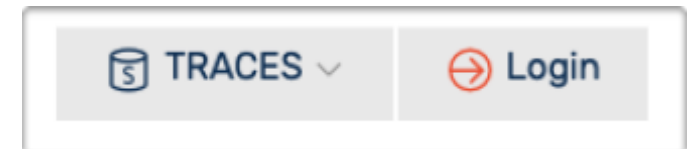
Import ⌄

Explore ⌄

{···} SPARQL

Setup ⌄

Help ⌄

Active repository

Local

S TRACES   🔗 ↻

total statements   **9,692,445** explicit
12,126,693   **2,434,248** inferred
                                     1.25 expansion ratio

Import RDF data

Import tabular data with OntoRefine

Export RDF data

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A++++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

AVAILABLE PRE-DEFINED SPARQL/GEOSPARQL QUERIES

Description

The user can access the GraphDB GUI via the **Interface URLs** to directly run pre-defined SPARQL queries. Additionally, query results in .srx files can be retrieved using the **Output URLs**.

Component queries:

1. Query to obtain Data Structure Definitions

INTERFACE URL:

http://steamerlod.imag.fr/sparql?name=qb%3ADataStructureDefinition&infer=true&sameAs=false&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0AP

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A++++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

REFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0A%0Aselect+*+%0A%7B%0A++++%3Fdsd+a+qb%3ADataStructureDefinition+.%0A++++%0A%7D%0A%0A

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=

2. Query to obtain attribute component

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+sdmx-attribute%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fsdmx%2F2009%2Fattribute%23%3E%0APREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0A%0A%0Aselect++DISTINCT+%3Fattibute+%3FcomponentLevel+%7B%0A++++%3Fmeasure+a+qb%3AMeasureProperty+.%0A++++%3Flevel+sdmx-attribute%3AunitMeasure+%3Fattibute+.%0A++++%3Flevel+rdf%3Atype+%3FcomponentLevel+.%0A++++%0A++++FILTER+(%3FcomponentLevel+!%3D+rdf%3AProperty)%0A%7D

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A++++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A+++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=

3. Query to obtain CLC dataset Information

INTERFACE URL:

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0A%0Aselect+%3Fproperty+%3Fmetadata+%7B%0A++++%3FdataSet+a+qb%3ADataSet+.%0A++++%3FdataSet+%3Fproperty+%3Fmetadata+.%0A++++FILTER+(%3FdataSet+%3D+traces-qb%3ACLC-dataset)+%23+Replace+CLC+by+Seasonaly-LIS+or+Seasonaly-LST%0A%7D%0A%0A

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A++++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A+++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A++++++++tsn%3AhasName+%3Fname+%3B%0A++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A++++++++sett%3Acountry+%3Fcountry+%3B%0A++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A++++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

OLAP-based queries:

1. Query to perform Dice operation

INTERFACE URL:

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+traces-codelist%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fcodelist%2F%3E%0APREFIX+traces-time%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Ftime%2F%3E%0A%0APREFIX+xsd%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2001%2FXMLSchema%23%3E%0APREFIX+time%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2006%2Ftime%23%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0ASELECT+%3Fobs+%3Fmean+%3Fyear+%3Fseason+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++qb%3AdataSet+traces-qb%3ASeasonaly-LIS-dataset+%3B%0A+++++++traces-qb%3AdimensionArea+traces-geo%3AFR74013+%3B++%23+Specify+the+value+for+the+Area+dimension%0A+++++++traces-qb%3AdimensionIndice+traces-codelist%3ANDGlaI+%3B++%23+Specify+the+value+for+the+Indice+dimension%0A+++++++traces-qb%3AdimensionTime+%3Ftime+%3B++%23+Specify+the+value+for+the+Time+dimension%0A+++++++%0A+++++++traces-qb%3AmeasureDataQualityPct+%3FdataQuality+%3B%0A+++++++traces-qb%3AmeasureStdUnitless+%3Fstd+%3B%0A+++++++traces-qb%3AmeasureMeanUnitless+%3Fmean+.%0A++++%0A+++%3Ftime+ti

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A++++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A++++++++tsn%3AhasName+%3Fname+%3B%0A++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A++++++++sett%3Acountry+%3Fcountry+%3B%0A++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

me%3Ayear+%3Fyear+.%0A+++%3Ftime+sett%3AseasonOfYear+%3Fseason++.%0A+++FILTER(%3Fyear+%3E%3D+%221990%22%5E%5Exsd%3AgYear+%26%26+%3Fyear+%3C+%222000%22%5E%5Exsd%3AgYear)%0A%7D%0A%0Aorder+by+%3Fyear

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=

2. Query to perform Roll-up operation on Indice dimension

INTERFACE URL:

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A++++++++tsn%3AhasName+%3Fname+%3B%0A++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A++++++++sett%3Acountry+%3Fcountry+%3B%0A++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A++++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+skos%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2004%2F02%2Fskos%2Fcore%23%3E%0APREFIX+traces-codelist%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fcodelist%2F%3E%0ASELECT+%3FbroaderIndexConcept+(AVG(%3FdataQuality)+AS+%3FavgDataQuality)+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++qb%3AdataSet+traces-qb%3ASeasonaly-LIS-dataset+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+%3B%0A+++++++traces-qb%3AdimensionTime+%3Ftime+%3B%0A+++++++traces-qb%3AdimensionIndice+%3Findex+%3B%0A+++++++traces-qb%3AmeasureDataQualityPct+%3FdataQuality+.%0A%0A++%3Findex+skos%3Abroader+%3FbroaderIndexConcept++.%0A%7D%0AGROUP+BY+%3FbroaderIndexConcept%0A

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A++++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A++++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

3. Query to perform Roll up operation on the Time dimension

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+traces-codelist%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fcodelist%2F%3E%0APREFIX+traces-time%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Ftime%2F%3E%0APREFIX+time%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2006%2Ftime%23%3E%0APREFIX+xsd%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2001%2FXMLSchema%23%3E%0A%0A%0ASELECT+%3Ftime+(AVG(%3FdataQuality)+AS+%3FavgDataQuality)%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++qb%3AdataSet+traces-qb%3ASeasonaly-LIS-dataset+%3B++%0A+++++++traces-qb%3AdimensionArea+traces-geo%3AFR74013+%3B%0A+++++++traces-qb%3AdimensionIndice+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fcodelist%2FNDGIaI%3E+%3B%0A+++++++traces-qb%3AdimensionTime+%3Ftime+%3B%0A+++++++traces-qb%3AmeasureDataQualityPct+%3FdataQuality+.%0A++++%3Ftime+time%3Amonth+%3Fmonth+%0A%09++%0A%0A+++%23FILTER(%3Fmonth+%3E%3D+%22--03%22%5E%5Exsd%3AgYearMonth+%26%26+%3Fmonth+%3C%22--10%22

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A++++++++tsn%3AhasName+%3Fname+%3B%0A++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A++++++++sett%3Acountry+%3Fcountry+%3B%0A++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

%5E%5Exsd%3AgYearMonth)%0A+++FILTER(%3Fmonth+%3E%3D+%22--03%22%5E%5Exsd%3AgMonth+%26%26+%3Fmonth+%3C%22--10%22%5E%5Exsd%3AgMonth)%0A%7D%0AGROUP+BY+%3Ftime

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=

Spatio-temporal queries:

1. Query to obtain average Surface Temperature mean value in Fribourg

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A+++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+skos%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2004%2F02%2Fskos%2Fcore%23%3E%0APREFIX+traces-codelist%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fcodelist%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+time%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2006%2Ftime%23%3E%0APREFIX+xsd%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2001%2FXMLSchema%23%3E%0ASELECT+%3Funit_code+(AVG(%3Fmean)+AS+%3Favgmean)+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++qb%3AdataSet+traces-qb%3ASeasonaly-LST-dataset+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+%3B%0A+++++++traces-qb%3AdimensionTime+%3Ftime+%3B%0A+++++++traces-qb%3AdimensionIndice+%3Findex+%3B%0A+++++++traces-qb%3AmeasureMeanDegCel+%3Fmean+.%0A++++%0A+%0A+%3Farea+sett%3AstudyArea+traces-geo%3AFribourg+%3B%0A++%09%09tsn%3AhasName+%3Fname+%3B%0A++++%09tsn%3AhasIdentifier+%3Funit_code+%3B%0A+++++++owl%3AsameAs+%3Fbounderies+.%23+bounderies+in+2022%0A++%3Ftime+time%3Ayear++%222010%22%5E%5Exsd%3AgYear+.%0A%0A%7D%0AGROUP+BY+%3Funit_code%0A%0A%23+For+each+year+we+have+4+observations+(season)%2C+if+we+group+by+code%2C+we+have+the+average+Temperature+in+the+year+of+each+municipality.%0A%0A

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A++++++++tsn%3AhasName+%3Fname+%3B%0A++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A++++++++sett%3Acountry+%3Fcountry+%3B%0A++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A++++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=

2. Query to obtain the top 3 municipalitie's bounderies with high NDVI values in Fribourg

INTERFACE URL:

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+traces-codelist%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fcodelist%2F%3E%0APREFIX+traces-time%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Ftime%2F%3E%0A%0APREFIX+xsd%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2001%2FXMLSchema%23%3E%0APREFIX+time%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2006%2Ftime%23%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0A%0APREFIX+geo%3A+%3Chttp%3A%2F%2Fwww.opengis.

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A++++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A++++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

net%2Font%2Fgeosparql%23%3E%0APREFIX+ch%3A+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fdef%2F%3E%0ASELECT+%3Fname+%3Fcode+%3Fmean+%3Fgeometry+%3Fbounderies+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++traces-qb%3AdimensionArea++%3Farea+%3B%0A+++++++traces-qb%3AdimensionTime++%3Ftime+%3B%0A+++++++traces-qb%3AdimensionIndice+traces-codelist%3ANDVI+%3B%0A+++++++traces-qb%3AmeasureMeanUnitless+%3Fmean+%3B%0A+++++++traces-qb%3AmeasureDataQualityPct+%3Fquality+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AFribourg+%3B%0A++%09%09tsn%3AhasName+%3Fname+%3B%0A++++%09tsn%3AhasIdentifier+%3Fcode+%3B%0A++++++++owl%3AsameAs+%3Fbounderies+.%23+bounderies+in+2022%0A++%3Ftime+time%3Ayear++%222008%22%5E%5Exsd%3AgYear+%3B%0A++++++++sett%3AseasonOfYear+sett%3ASpring+.%0A%0AFILTER+(%3Fquality+%3E+0.7)%0A++++%0A++SERVICE+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fquery%3E%0A++%7B+%0A++%09%23%3Fcode+ch%3AbfsNumber+2272+.%0A++++%3Fbounderies+geo%3AhasGeometry+%3Fcoordinates+.%0A++++%3Fcoordinates+geo%3AasWKT+%3Fgeometry+.%0A%0A++%7D+%0A++++++%0A%7D%0AORDER+BY+DESC(%3Fmean)%0ALIMIT+3

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A++++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A+++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A...ame%0A

3. Query to obtain the boundaries of the Grand Genève municipality using the FSO repository in Switzerland and the GeoChange repository for France

INTERFACE URL:

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+traces-codelist%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fcodelist%2F%3E%0APREFIX+traces-time%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Ftime%2F%3E%0A%0APREFIX+xsd%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2001%2FXMLSchema%23%3E%0APREFIX+time%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2006%2Ftime%23%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0A%0APREFIX+geo%3A+%3Chttp%3A%2F%2Fwww.opengis.net%2Font%2Fgeosparql%23%3E%0APREFIX+gn%3A+%3Chttp%3A%2F%2Fwww.geonames.org%2Fontology%23%3E+%0APREFIX+ch%3A+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fdef%2F%3E%0A%0APREFIX+igeo%3A%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+(COALESCE(%3FcoordinatesFR%2C+%3FcoordinatesCH)+AS+%3Fcoordinates)%0AWHERE+%7B%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++owl%3AsameAs+%3Fbounderies+.%0A%0A++OPTIONAL+%7B%0A++++%7B%0A++++++SERVICE+%

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A++++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A++++++++sett%3Acountry+%3Fcountry+%3B%0A++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A++++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

3Chttp%3A%2F%2Fsteamerlod.imag.fr%2Frepositories%2Fgeochange%3F%3E+%7B+%0A++++++++%3Fbounderies+geo%3AhasGeometry+%3FgeometrFR+.%0A++++++++%3FgeometrFR+geo%3AasWKT+%3FcoordinatesFR+.%0A++++++%7D%0A++++%7D%0A++++UNION%0A++++%7B%0A++++++SERVICE+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fquery%3E+%7B+%0A++++++++%3Fbounderies+geo%3AhasGeometry+%3FgeometryCH+.%0A++++++++%3FgeometryCH+geo%3AasWKT+%3FcoordinatesCH+.%0A++++++%7D%0A++++%7D%0A++%7D%0A%7D%0A

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=

4. Query to retrieve the population of Swiss municipalities within Grand Genève from the FSO repository

INTERFACE URL:

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A++++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A+++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+geo%3A+%3Chttp%3A%2F%2Fwww.opengis.net%2Font%2Fgeosparql%23%3E%0APREFIX+gn%3A+%3Chttp%3A%2F%2Fwww.geonames.org%2Fontology%23%3E%0APREFIX+ch%3A+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fdef%2F%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A+++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A%0A++FILTER+(%3Fcountry+%3D+traces-geo%3ASwitzerland)%0A%0A++SERVICE+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fquery%3E+%7B%0A++++%3FofficialOntology+gn%3Apopulation+%3Fpopulation+.%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=

5. Query to retrieve the population of French municipalities within Grand Genève from the INSEE repository in 2016.

INTERFACE URL:

http://steamerlod.imag.fr/sparql?name=&infer=true&sameAs=true&query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%3E%0APREFIX+qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23%3E%0APREFIX+traces-qb%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fqb%2F%3E%0APREFIX+traces-geo%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fdataset%2Fgeo%2F%3E%0APREFIX+sett%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Fsett%23%3E%0APREFIX+tsn%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftsn%23%3E%0APREFIX+owl%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2002%2F07%2Fowl%23%3E%0APREFIX+igeo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fgeo%23%3E%0APREFIX+idemo%3A+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23%3E%0A%0ASELECT+DISTINCT+%3Fname+%3Fcode+%3Fcountry+%3Fpopulation+%0AWHERE+%7B%0A++%3Fobs+rdf%3Atype+qb%3AObservation+%3B%0A++++++++traces-qb%3AdimensionArea+%3Farea+.%0A++%3Farea+sett%3AstudyArea+traces-geo%3AGrandGeneve+%3B%0A+++++++++tsn%3AhasName+%3Fname+%3B%0A+++++++++tsn%3AhasIdentifier+%3Fcode+%3B%0A+++++++++sett%3Acountry+%3Fcountry+%3B%0A+++++++++owl%3AsameAs+%3FofficialOntology+.%0A++++%0A++FILTER+(%3Fcountry+%3D+traces-geo%3AFrance)%0A++FILTER+(!STRSTARTS(STR(%3FofficialOntology)%2C+%22http%3A%2F%2Fpurl.org%2Fsteamer%2Fadminexpress%2F%22))%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E+%7B%0A++++%3FofficialOntology+idemo%3Apopulation+%3Fpop+.%0A++++%3Fpop+idemo%3ApopulationTotale+%3Fpopulation+%3B%0A+++++++++idemo%3Adate+%3Fdate+.%0A++++FILTER+(year(%3Fdate)+%3D+2016)%0A++%7D%0A%7D%0AORDER+BY+%3Fname%0A

OUTPUT URL:

http://steamerlod.imag.fr/repositories/TRACES?query=