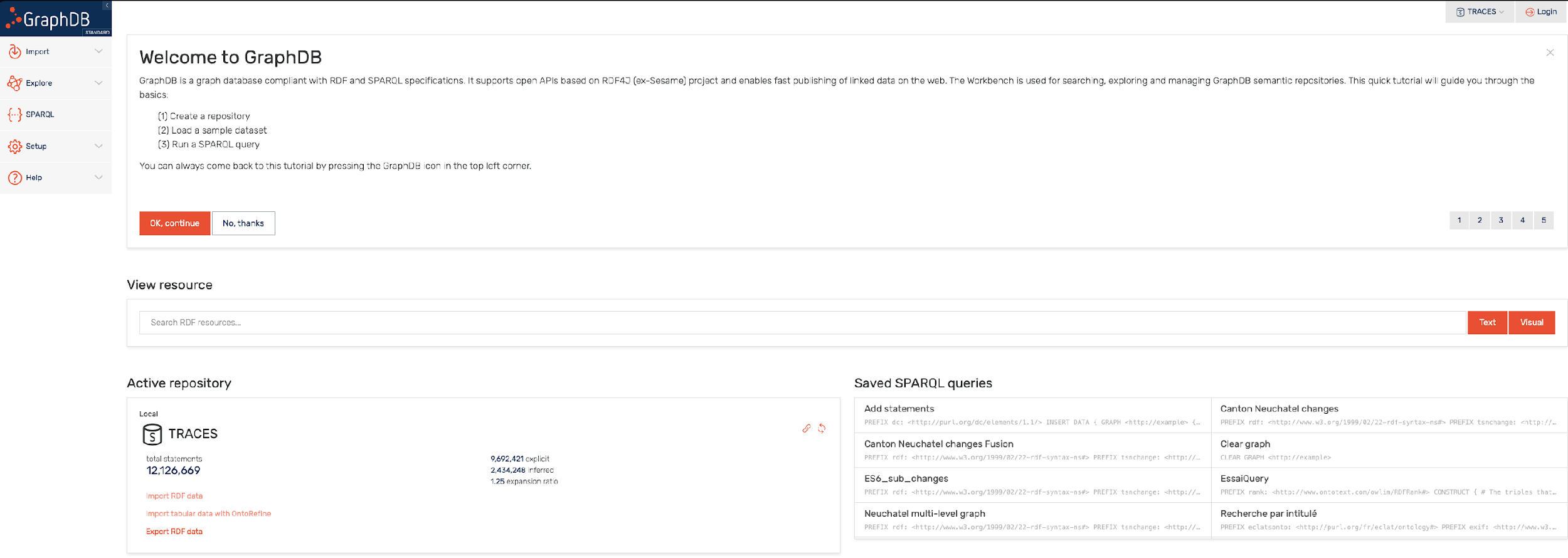
**TRACES PROJECT**Choose the TRACES repository

EO-RDF data cubesFlèche

To access the EO-RDF data cubes

access the following URL:[**http://steamerlod.imag.fr**](http://steamerlod.imag.fr) and

connect to the TRACES repository

Image

**TRACES project**

Pre-defined SPARQL queries

**Description**

The user can access the GraphDB GUI using the ***interface URLs*** to access the pre-defined SPARQL queries directly. In addition, the results of the queries in .**srx** files can be obtained using the ***output URLs***.

**Component queries:**

**1. Query to obtain attribute component**

**Interface URL:**

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

**OUTPUT URL:**

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

**2. Query to obtain 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)%0A%7D%0A%0A

**OUTPUT URL:**

http://steamerlod.imag.fr/repositories/TRACES?query=REFIX+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)%0A%7D%0A%0A

**3. 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%0APREFIX+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=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+\*+%0A%7B%0A++++%3Fdsd+a+qb%3ADataStructureDefinition+.%0A++++%0A%7D%0A%0A

**3. Federated Query to obtain population**

**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+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%0A%0ASELECT++%3Fpopulation+%3Fpredicate+%3Finformation%0AWHERE+%7B%0A++%3Fmunicipality+a+sett%3ATerritorialUnit%3B%0A++++++++++++++++tsn%3AhasName+%3Fname+%3B%0A++++++++++++++++sett%3Acountry+traces-geo%3AFrance+%3B%0A++++++++++++++++owl%3AsameAs+%3FofficialOntology+.%0A++FILTER+(%3Fname+%3D+%22Grilly%22)%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E%0A++%7B+%0A++%09%3FofficialOntology+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23population%3E+%3Fpopulation+.+%0A++++%3Fpopulation+%3Fpredicate+%3Finformation+.%0A++++FILTER+(+%3Fpredicate+!%3D+rdf%3Atype)%0A++%7D+%0A++%0A%7D

**OUTPUT URL:**

http://steamerlod.imag.fr/repositories/TRACES?query=PREFIX+rdf%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F1999%2F02%2F22-rdf-syntax-ns%23%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%0A%0ASELECT++%3Fpopulation+%3Fpredicate+%3Finformation%0AWHERE+%7B%0A++%3Fmunicipality+a+sett%3ATerritorialUnit%3B%0A++++++++++++++++tsn%3AhasName+%3Fname+%3B%0A++++++++++++++++sett%3Acountry+traces-geo%3AFrance+%3B%0A++++++++++++++++owl%3AsameAs+%3FofficialOntology+.%0A++FILTER+(%3Fname+%3D+%22Grilly%22)%0A++SERVICE+%3Chttps%3A%2F%2Frdf.insee.fr%2Fsparql%3E%0A++%7B+%0A++%09%3FofficialOntology+%3Chttp%3A%2F%2Frdf.insee.fr%2Fdef%2Fdemo%23population%3E+%3Fpopulation+.+%0A++++%3Fpopulation+%3Fpredicate+%3Finformation+.%0A++++FILTER+(+%3Fpredicate+!%3D+rdf%3Atype)%0A++%7D+%0A++%0A%7D

**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+time%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=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+time%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

**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+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%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%0A

**OUTPUT URL:**

http://steamerlod.imag.fr/repositories/TRACES?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%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%0A

**3. Query to perform Roll up operation on the Time 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+traces-codelist%3A+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fcodelist%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++%23traces-qb%3ASeasonaly-LIS-dataset++traces-qb%3AMini-LIS-dataset%0A+++++++traces-qb%3AdimensionArea+traces-geo%3AFR74013+%3B%0A+++++++traces-qb%3AdimensionIndice+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fcodelist%2FNDGlaI%3E+%3B%0A+++++++traces-qb%3AdimensionTime+%3Ftime+%3B%0A+++++++traces-qb%3AmeasureDataQualityPct+%3FdataQuality+.%0A++++%3Ftime+time%3Amonth+%3Fmonth+%0A%09++%0A%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%0A%0A%0A%0A

**OUTPUT URL:**

http://steamerlod.imag.fr/repositories/TRACES?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%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++%23traces-qb%3ASeasonaly-LIS-dataset++traces-qb%3AMini-LIS-dataset%0A+++++++traces-qb%3AdimensionArea+traces-geo%3AFR74013+%3B%0A+++++++traces-qb%3AdimensionIndice+%3Chttp%3A%2F%2Fpurl.org%2Fnet%2Ftraces%2Fcodelist%2FNDGlaI%3E+%3B%0A+++++++traces-qb%3AdimensionTime+%3Ftime+%3B%0A+++++++traces-qb%3AmeasureDataQualityPct+%3FdataQuality+.%0A++++%3Ftime+time%3Amonth+%3Fmonth+%0A%09++%0A%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%0A%0A%0A%0A

**Spatio-temporal queries:**

**1. Query to obtain average Surface Temperature**

**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+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+%3Ftunit\_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+%3Ftunit\_code+%3B%0A++++++++owl%3AsameAs+%3Fbounderies+.%23+bounderies+in+2022%0A++%3Ftime+time%3Ayear++%222010%22%5E%5Exsd%3AgYear+.%0A%0A%7D%0AGROUP+BY+%3Ftunit\_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

**OUTPUT URL:**

http://steamerlod.imag.fr/repositories/TRACES?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+%3Ftunit\_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+%3Ftunit\_code+%3B%0A++++++++owl%3AsameAs+%3Fbounderies+.%23+bounderies+in+2022%0A++%3Ftime+time%3Ayear++%222010%22%5E%5Exsd%3AgYear+.%0A%0A%7D%0AGROUP+BY+%3Ftunit\_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

**2. Query to obtain top EBBI values**

**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+ch%3A+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fdef%2F%3E%0ASELECT+%3Fname+%3Fcode+%3Fmean+%3Fgeometry%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%3ANDBI+%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=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+ch%3A+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fdef%2F%3E%0ASELECT+%3Fname+%3Fcode+%3Fmean+%3Fgeometry%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%3ANDBI+%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

**3. Query to obtain top NDSI values**

**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+ch%3A+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fdef%2F%3E%0ASELECT+%3Fname+%3Fcode+%3Fmean+%3Fgeometry%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%3ANDSI+%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=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+ch%3A+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fdef%2F%3E%0ASELECT+%3Fname+%3Fcode+%3Fmean+%3Fgeometry%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%3ANDSI+%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

**4. Query to obtain top NDWI values**

**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+ch%3A+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fdef%2F%3E%0ASELECT+%3Fname+%3Fcode+%3Fmean+%3Fgeometry%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%3ANDWI+%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=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+ch%3A+%3Chttps%3A%2F%2Fgeo.ld.admin.ch%2Fdef%2F%3E%0ASELECT+%3Fname+%3Fcode+%3Fmean+%3Fgeometry%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%3ANDWI+%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

**5. Query to obtain top NDVI values**

**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+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=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+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