# Usage of cube DEMO

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## Introduction

This is not a good example yet - there is not real message nor flow in the document. TODO(mja): fix it.

# Create DEMO sample table from CSV file

This script creates the result and codelist for a simple DEMO table.

```
library(rrdfancillary)
devtools::load_all(pkg="../..")
```

#### ## Loading rrdfqbcrndex

```
library(rrdfqbcrnd0)
library(rrdfqb)

cubeVocabularyFn<- system.file("extdata/cube-vocabulary-rdf","cube.ttl", package="rrdfqb")

dataCubeFile<- system.file("extdata/sample-rdf", "DC-DEMO-sample.ttl", package="rrdfqbcrndex")

store <- new.rdf()  # Initialize

cat("Loading cube specfication from ", cubeVocabularyFn, "\n")</pre>
```

## Loading cube specfication from /home/ma/R/x86\_64-redhat-linux-gnu-library/3.3/rrdfqb/extdata/cube-v

```
tmp<- load.rdf(cubeVocabularyFn, format="TURTLE", appendTo= store)
cat("Loading cube from ", dataCubeFile, "\n")</pre>
```

## Loading cube from /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DC-DEMO-sample

```
tmp<- load.rdf(dataCubeFile, format="TURTLE", appendTo= store)
summarize.rdf(store)</pre>
```

```
## [1] "Number of triples: 3382"
```

## Execute the DEMO\* SPARQL queries

```
rqFiles<- system.file("extdata/sample-rdf", list.files(system.file("extdata/sample-rdf", package="rrdf

for (rqFile in rqFiles) {
    cat("File ", rqFile, "\n")
    rq<- pasteO(readLines(rqFile),collapse="\n")
    res<- data.frame(sparql.rdf(store, rq),stringsAsFactors=FALSE)
    print(nrow(res))
    if (nrow(res)>0) {
        print(knitr::kable(res))
        }
}
```

```
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOattributes.rq
## [1] 6
##
##
## p
## -----
## crnd-attribute:cellpartno
## crnd-attribute:measurefmt
## crnd-attribute:colno
## crnd-attribute:denominator
## crnd-attribute:unit
## crnd-attribute:rowno
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOcodelist.rq
## [1] 43
##
##
## DataStructureDefinition dimension
                                                        cprefLabel
                                                                                     cl
## ds:dsd-DEMO
                                                                                     code:agegr1-65-80
                             crnd-dimension:agegr1
                                                        Codelist scheme: agegr1
## ds:dsd-DEMO
                             crnd-dimension:agegr1
                                                        Codelist scheme: agegr1
                                                                                     code:agegr1-_65
## ds:dsd-DEMO
                             {\tt crnd-dimension:agegr1}
                                                        Codelist scheme: agegr1
                                                                                     code:agegr1-_80
## ds:dsd-DEMO
                             crnd-dimension:agegr1
                                                        Codelist scheme: agegr1
                                                                                     code:agegr1-_ALL_
## ds:dsd-DEMO
                             crnd-dimension:agegr1
                                                        Codelist scheme: agegr1
                                                                                     code:agegr1-_NONMI
## ds:dsd-DEMO
                             crnd-dimension:ethnic
                                                        Codelist scheme: ethnic
                                                                                     code:ethnic-HISPAN
## ds:dsd-DEMO
                             crnd-dimension:ethnic
                                                        Codelist scheme: ethnic
                                                                                     code:ethnic-NOT_HI
## ds:dsd-DEMO
                             crnd-dimension:ethnic
                                                        Codelist scheme: ethnic
                                                                                     code:ethnic-_ALL_
## ds:dsd-DEMO
                             crnd-dimension:ethnic
                                                        Codelist scheme: ethnic
                                                                                     code:ethnic-_NONMI
## ds:dsd-DEMO
                             crnd-dimension:factor
                                                        Codelist scheme: factor
                                                                                     code:factor-_ALL_
## ds:dsd-DEMO
                             crnd-dimension:factor
                                                        Codelist scheme: factor
                                                                                     code:factor-_NONMI
```

```
## ds:dsd-DEMO
                              crnd-dimension:factor
                                                          Codelist scheme: factor
                                                                                        code:factor-age
## ds:dsd-DEMO
                              crnd-dimension:factor
                                                          Codelist scheme: factor
                                                                                        code:factor-propor
                                                          Codelist scheme: factor
## ds:dsd-DEMO
                              crnd-dimension:factor
                                                                                        code:factor-quanti
## ds:dsd-DEMO
                              crnd-dimension:factor
                                                          Codelist scheme: factor
                                                                                        code:factor-weight
## ds:dsd-DEMO
                              crnd-dimension:procedure
                                                          Codelist scheme: procedure
                                                                                        code:procedure-cou
## ds:dsd-DEMO
                              crnd-dimension:procedure
                                                          Codelist scheme: procedure
                                                                                        code:procedure-max
## ds:dsd-DEMO
                              crnd-dimension:procedure
                                                          Codelist scheme: procedure
                                                                                        code:procedure-mean
## ds:dsd-DEMO
                              crnd-dimension:procedure
                                                          Codelist scheme: procedure
                                                                                        code:procedure-med
## ds:dsd-DEMO
                              crnd-dimension:procedure
                                                          Codelist scheme: procedure
                                                                                        code:procedure-min
## ds:dsd-DEMO
                              crnd-dimension:procedure
                                                          Codelist scheme: procedure
                                                                                        code:procedure-n
## ds:dsd-DEMO
                              crnd-dimension:procedure
                                                          Codelist scheme: procedure
                                                                                        code:procedure-per
## ds:dsd-DEMO
                              crnd-dimension:procedure
                                                          Codelist scheme: procedure
                                                                                        code:procedure-q1
## ds:dsd-DEMO
                              crnd-dimension:procedure
                                                          Codelist scheme: procedure
                                                                                        code:procedure-q3
                                                                                        code:procedure-std
## ds:dsd-DEMO
                              crnd-dimension:procedure
                                                          Codelist scheme: procedure
## ds:dsd-DEMO
                                                                                        code:race-AMERICAN
                              crnd-dimension:race
                                                          Codelist scheme: race
## ds:dsd-DEMO
                              crnd-dimension:race
                                                          Codelist scheme: race
                                                                                        code:race-ASIAN
## ds:dsd-DEMO
                              crnd-dimension:race
                                                          Codelist scheme: race
                                                                                        code:race-BLACK_OR
## ds:dsd-DEMO
                              crnd-dimension:race
                                                          Codelist scheme: race
                                                                                        code:race-NATIVE_H
## ds:dsd-DEMO
                              crnd-dimension:race
                                                          Codelist scheme: race
                                                                                        code:race-WHITE
## ds:dsd-DEMO
                              crnd-dimension:race
                                                          Codelist scheme: race
                                                                                        code:race-_ALL_
## ds:dsd-DEMO
                              crnd-dimension:race
                                                          Codelist scheme: race
                                                                                        code:race-_NONMISS
## ds:dsd-DEMO
                              crnd-dimension:sex
                                                          Codelist scheme: sex
                                                                                        code:sex-F
## ds:dsd-DEMO
                                                          Codelist scheme: sex
                              crnd-dimension:sex
                                                                                        code:sex-M
## ds:dsd-DEMO
                              crnd-dimension:sex
                                                          Codelist scheme: sex
                                                                                        code:sex-U
## ds:dsd-DEMO
                              crnd-dimension:sex
                                                          Codelist scheme: sex
                                                                                        code:sex-UN
## ds:dsd-DEMO
                              crnd-dimension:sex
                                                          Codelist scheme: sex
                                                                                        code:sex-_ALL_
## ds:dsd-DEMO
                              crnd-dimension:sex
                                                          Codelist scheme: sex
                                                                                        code:sex-_NONMISS_
## ds:dsd-DEMO
                              crnd-dimension:trt01a
                                                          Codelist scheme: trt01a
                                                                                        code:trt01a-Placeb
## ds:dsd-DEMO
                                                          Codelist scheme: trt01a
                                                                                        code:trt01a-Xanome
                              crnd-dimension:trt01a
## ds:dsd-DEMO
                              crnd-dimension:trt01a
                                                          Codelist scheme: trt01a
                                                                                        code:trt01a-Xanome
## ds:dsd-DEMO
                              crnd-dimension:trt01a
                                                          Codelist scheme: trt01a
                                                                                        code:trt01a-_ALL_
## ds:dsd-DEMO
                              crnd-dimension:trt01a
                                                          Codelist scheme: trt01a
                                                                                        code:trt01a-_NONMI
        /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOcodelistfull.rq
##
##
## DataStructureDefinition
                              component
                                               dimension
                                                                                             cprefLabel
## ds:dsd-DEMO
                                                                                             Codelist sche
                              dccs:agegr1
                                               crnd-dimension:agegr1
                                                                            code:agegr1
## ds:dsd-DEMO
                                               crnd-dimension:agegr1
                                                                            code:agegr1
                                                                                             Codelist sche
                              dccs:agegr1
## ds:dsd-DEMO
                              dccs:agegr1
                                               crnd-dimension:agegr1
                                                                            code:agegr1
                                                                                             Codelist sche
## ds:dsd-DEMO
                                               crnd-dimension:agegr1
                                                                           code:agegr1
                                                                                             Codelist sche
                              dccs:agegr1
## ds:dsd-DEMO
                              dccs:agegr1
                                               crnd-dimension:agegr1
                                                                            code:agegr1
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:ethnic
                                               crnd-dimension:ethnic
                                                                            code:ethnic
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:ethnic
                                               crnd-dimension:ethnic
                                                                           code:ethnic
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:ethnic
                                               crnd-dimension:ethnic
                                                                           code:ethnic
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:ethnic
                                               crnd-dimension:ethnic
                                                                            code:ethnic
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:factor
                                               crnd-dimension:factor
                                                                            code:factor
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:factor
                                               crnd-dimension:factor
                                                                            code:factor
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:factor
                                               crnd-dimension:factor
                                                                            code:factor
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:factor
                                                crnd-dimension:factor
                                                                            code:factor
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:factor
                                               crnd-dimension:factor
                                                                           code:factor
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:factor
                                               crnd-dimension:factor
                                                                           code:factor
                                                                                             Codelist sche
```

crnd-dimension:procedure

code:procedure

Codelist sche

dccs:procedure

## ds:dsd-DEMO

```
## ds:dsd-DEMO
                              dccs:procedure
                                               crnd-dimension:procedure
                                                                           code:procedure
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:race
                                               crnd-dimension:race
                                                                           code:race
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:race
                                               crnd-dimension:race
                                                                           code:race
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:race
                                               crnd-dimension:race
                                                                           code:race
                                                                                             Codelist sche
## ds:dsd-DEMO
                                               crnd-dimension:race
                                                                                             Codelist sche
                              dccs:race
                                                                           code:race
## ds:dsd-DEMO
                                               crnd-dimension:race
                                                                           code:race
                              dccs:race
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:race
                                               crnd-dimension:race
                                                                           code:race
                                                                                             Codelist sche
## ds:dsd-DEMO
                                               crnd-dimension:race
                                                                                             Codelist sche
                              dccs:race
                                                                           code:race
## ds:dsd-DEMO
                                                                                             Codelist sche
                              dccs:sex
                                               crnd-dimension:sex
                                                                           code:sex
## ds:dsd-DEMO
                                               crnd-dimension:sex
                                                                                             Codelist sche
                              dccs:sex
                                                                           code:sex
## ds:dsd-DEMO
                                               crnd-dimension:sex
                                                                           code:sex
                                                                                             Codelist sche
                              dccs:sex
## ds:dsd-DEMO
                              dccs:sex
                                               crnd-dimension:sex
                                                                           code:sex
                                                                                             Codelist sche
## ds:dsd-DEMO
                              dccs:sex
                                               crnd-dimension:sex
                                                                           code:sex
                                                                                             Codelist sche
## ds:dsd-DEMO
                                                                                             Codelist sche
                              dccs:sex
                                               crnd-dimension:sex
                                                                           code:sex
## ds:dsd-DEMO
                              dccs:trt01a
                                               crnd-dimension:trt01a
                                                                           code:trt01a
                                                                                             Codelist sche
## ds:dsd-DEMO
                                               crnd-dimension:trt01a
                                                                           code:trt01a
                                                                                             Codelist sche
                              dccs:trt01a
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOdimensions.rq
## [1] 7
##
##
## p
## crnd-dimension:ethnic
## crnd-dimension:race
## crnd-dimension:procedure
## crnd-dimension:agegr1
## crnd-dimension:factor
## crnd-dimension:trt01a
## crnd-dimension:sex
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOfactor-codelist.rq
## [1] 53
##
##
## code:factor-weightbl
                             skos:topConceptOf
                                                                code:factor
## code:factor-weightbl
                             skos:prefLabel
                                                                weightbl
## code:factor-weightbl
                             skos:inScheme
                                                                code:factor
## code:factor-weightbl
                             rrdfqbcrnd0:R-selectionvalue
                                                                weightbl
## code:factor-weightbl
                             rrdfqbcrnd0:R-selectionoperator
## code:factor-weightbl
                             rrdfqbcrnd0:DataSetRefD2RQ
                                                                rrdfqbcrnd0:ADSL_WEIGHTBL
## code:factor-weightbl
                            rdfs:comment
                                                                Coded values from data source. No reconci
## code:factor-weightbl
                             rdf:type
                                                                skos:Concept
```

```
## code:factor-weightbl
                                                               code:Factor
                            rdf:type
## code:factor-age
                            skos:topConceptOf
                                                               code:factor
## code:factor-age
                            skos:prefLabel
                            skos:inScheme
## code:factor-age
                                                               code:factor
## code:factor-age
                            rrdfqbcrnd0:R-selectionvalue
                                                               age
                            rrdfqbcrnd0:R-selectionoperator
## code:factor-age
                            rrdfqbcrnd0:DataSetRefD2RQ
## code:factor-age
                                                               rrdfqbcrnd0:ADSL_AGE
## code:factor-age
                            rdfs:comment
                                                               Coded values from data source. No reconci
## code:factor-age
                            rdf:type
                                                               skos:Concept
## code:factor-age
                            rdf:type
                                                               code:Factor
## code:factor-_ALL_
                            skos:topConceptOf
                                                               code:factor
## code:factor-_ALL_
                            skos:prefLabel
                                                               _{
m ALL}_{
m }
## code:factor-_ALL_
                            skos:inScheme
                                                               code:factor
                                                               NON-CDISC: Represents all codelist catego:
## code:factor-_ALL_
                            rdfs:comment
## code:factor-_ALL_
                            rdf:type
                                                               skos:Concept
## code:factor-_ALL_
                            rdf:type
                                                               code:Factor
## code:factor-quantity
                            skos:topConceptOf
                                                               code:factor
## code:factor-quantity
                            skos:prefLabel
                                                               quantity
                            skos:inScheme
## code:factor-quantity
                                                               code:factor
## code:factor-quantity
                            rrdfqbcrnd0:R-selectionvalue
                                                               quantity
## code:factor-quantity
                            rrdfqbcrnd0:R-selectionoperator
## code:factor-quantity
                            rdfs:comment
                                                               Coded values from data source. No reconci
## code:factor-quantity
                                                               skos:Concept
                            rdf:type
## code:factor-quantity
                                                               code:Factor
                            rdf:type
## code:factor-_NONMISS_
                            skos:topConceptOf
                                                               code:factor
## code:factor-_NONMISS_
                            skos:prefLabel
                                                               _NONMISS_
## code:factor-_NONMISS_
                            skos:inScheme
                                                               code:factor
## code:factor-_NONMISS_
                            rrdfqbcrnd0:R-selectionfunction
                                                               is.na
                            rdfs:comment
## code:factor-_NONMISS_
                                                               NON-CDISC: Represents the non-missing cod
## code:factor-_NONMISS_
                                                               skos:Concept
                            rdf:type
## code:factor-_NONMISS_
                            rdf:type
                                                               code:Factor
## code:factor-proportion
                            skos:topConceptOf
                                                               code:factor
## code:factor-proportion
                            skos:prefLabel
                                                               proportion
## code:factor-proportion
                            skos:inScheme
                                                               code:factor
## code:factor-proportion
                            rrdfqbcrnd0:R-selectionvalue
                                                               proportion
                            rrdfqbcrnd0:R-selectionoperator
## code:factor-proportion
## code:factor-proportion
                            rdfs:comment
                                                               Coded values from data source. No reconci
## code:factor-proportion
                                                               skos:Concept
                            rdf:type
## code:factor-proportion
                                                               code:Factor
                            rdf:type
                                                               rdfs:Resource
## code:factor-proportion
                            rdf:type
## code:factor-_NONMISS_
                            rdf:type
                                                               rdfs:Resource
## code:factor-quantity
                                                               rdfs:Resource
                            rdf:type
                            rdf:type
## code:factor-_ALL_
                                                               rdfs:Resource
## code:factor-age
                                                               rdfs:Resource
                            rdf:type
## code:factor-weightbl
                            rdf:type
                                                               rdfs:Resource
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOfactor.rq
## [1] 6
##
## factor
                            prefLabel
                                          DataSetRefD2RQ
                                                                      Rselectionvalue
## code:factor-_ALL_
                            _ALL_
## code:factor-proportion proportion
                                                                      proportion
```

rrdfqbcrnd0:ADSL\_WEIGHTBL

weightbl

## code:factor-weightbl

```
_NONMISS_
## code:factor-_NONMISS_
                                       NA
                                                                  NA
## code:factor-quantity
                          quantity
                                                                  quantity
## code:factor-age
                          age
                                       rrdfqbcrnd0:ADSL AGE
                                                                  age
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations-R-data-par
##
##
              D2RQPropertyBridge
                                                                Rselectionvalue
              _____
## ds:obs007
              http://www.example.org/datasets/vocab/ADSL_SEX
## ds:obs007 http://www.example.org/datasets/vocab/ADSL_TRT01A
                                                                Placebo
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations-R-data.rq
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations-R-selection
## [1] 3
##
##
             rrdfqbcrnd0Rcolumnname
                                     Rselectionoperator
                                                          Rselectionvalue
## -----
                                                          -----
## ds:obs027
             trt01a
                                                          Xanomeline High Dose
## ds:obs056 trt01a
                                      ==
                                                          Xanomeline Low Dose
## ds:obs056
                                                          65-80
              agegr1
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations.rq
## [1] 132
##
##
## s
              ethnic
                                                 race
                                                                                            proced
## ds:obs001
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs002
             code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs003
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs004
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs005
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs006
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
              code:ethnic-_ALL_
## ds:obs007
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs008
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs009
              code:ethnic- ALL
                                                 code:race- ALL
                                                                                             code:p
## ds:obs010
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
                                                                                             code:p
## ds:obs011
              code:ethnic-_ALL_
                                                 code:race-_ALL_
## ds:obs012
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
                                                                                             code:p
## ds:obs013
             code:ethnic- ALL
                                                 code:race- ALL
## ds:obs014
              code:ethnic-_ALL_
                                                 code:race-\_ALL_
                                                                                             code:p
## ds:obs015
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs016
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs017
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
              code:ethnic-_ALL_
## ds:obs018
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs019
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs020
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs021
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs022
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs023
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs024
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs025
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
## ds:obs026
              code:ethnic-_ALL_
                                                 code:race-_ALL_
                                                                                             code:p
```

```
## ds:obs027
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs028
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs029
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs030
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs031
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs032
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs033
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs034
               code:ethnic-_ALL_
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs035
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs036
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs037
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs038
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs039
                                                                                                    code:p
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs040
               code:ethnic-_ALL_
               code:ethnic-_ALL_
## ds:obs041
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs042
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs043
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs044
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs045
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs046
                                                                                                    code:p
## ds:obs047
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs048
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs049
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
                                                                                                    code:p
## ds:obs050
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs051
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs052
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs053
                                                                                                    code:p
## ds:obs054
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs055
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
                                                     code:race-_ALL_
## ds:obs056
               code:ethnic-_ALL_
                                                                                                    code:p
## ds:obs057
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs058
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs059
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs060
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs061
                                                                                                    code:p
## ds:obs062
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs063
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs064
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs065
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs066
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs067
               code:ethnic- ALL
                                                     code:race- NONMISS
                                                                                                    code:p
                                                     code:race-_NONMISS_
               code:ethnic- ALL
## ds:obs068
                                                                                                    code:p
## ds:obs069
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
                                                                                                    code:p
                                                     code:race-_NONMISS_
               code:ethnic-_ALL_
## ds:obs070
                                                                                                    code:p
## ds:obs071
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
## ds:obs072
                                                                                                    code:p
## ds:obs073
               code:ethnic-_ALL_
                                                     code:race-WHITE
                                                                                                    code:p
## ds:obs074
               code:ethnic-_ALL_
                                                     code:race-WHITE
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs075
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs076
                                                     code:race-WHITE
                                                                                                    code:p
## ds:obs077
               code:ethnic-_ALL_
                                                     code:race-WHITE
                                                                                                    code:p
## ds:obs078
               code:ethnic-_ALL_
                                                     code:race-WHITE
                                                                                                    code:p
## ds:obs079
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs080
                                                     code:race-BLACK OR AFRICAN AMERICAN
                                                                                                    code:p
```

```
## ds:obs081
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs082
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs083
               code:ethnic- ALL
                                                     code:race-BLACK OR AFRICAN AMERICAN
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs084
                                                                                                    code:p
## ds:obs085
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
## ds:obs086
               code:ethnic- ALL
                                                                                                    code:p
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
## ds:obs087
               code:ethnic-_ALL_
                                                                                                    code:p
## ds:obs088
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
## ds:obs089
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
## ds:obs090
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
## ds:obs091
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs092
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs093
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs094
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs095
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs096
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs097
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
                                                                                                    code:p
## ds:obs098
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs099
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs100
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs101
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs102
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs103
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs104
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs105
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs106
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs107
                                                                                                    code:p
                                                     code:race-_ALL_
## ds:obs108
               code:ethnic-_ALL_
                                                                                                    code:p
## ds:obs109
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
                                                     code:race-_ALL_
## ds:obs110
               code:ethnic-_ALL_
                                                                                                    code:p
## ds:obs111
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs112
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs113
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs114
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_NONMISS_
## ds:obs115
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs116
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs117
               code:ethnic- NONMISS
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs118
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_NONMISS_
## ds:obs119
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_NONMISS_
## ds:obs120
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-NOT HISPANIC OR LATINO
## ds:obs121
                                                     code:race- ALL
                                                                                                    code:p
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                     code:race-\_ALL_
## ds:obs122
                                                                                                    code:p
## ds:obs123
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-NOT_HISPANIC_OR_LATINO
## ds:obs124
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs125
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                      code:race-_ALL_
                                                                                                    code:p
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                      code:race-_ALL_
## ds:obs126
                                                                                                    code:p
## ds:obs127
               code:ethnic-HISPANIC_OR_LATINO
                                                      code:race-_ALL_
                                                                                                    code:p
## ds:obs128
               code:ethnic-HISPANIC_OR_LATINO
                                                      code:race-_ALL_
                                                                                                    code:p
## ds:obs129
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs130
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs131
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs132
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race-_ALL_
                                                                                                    code:p
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOprocedure-codelist.rq
## [1] 100
```

```
##
##
## s
## code:procedure-min
                             skos:topConceptOf
                                                                code:procedure
## code:procedure-min
                             skos:prefLabel
                                                                min
## code:procedure-min
                             skos:inScheme
                                                                code:procedure
## code:procedure-min
                             rrdfqbcrnd0:RdescStatDefFun
                                                                function (x) {
                                                                                    min(x, na.rm = TRUE)
                             rrdfqbcrnd0:R-selectionvalue
## code:procedure-min
                                                                min
## code:procedure-min
                             rrdfqbcrnd0:R-selectionoperator
## code:procedure-min
                             rdfs:comment
                                                                Descriptive statistics min
## code:procedure-min
                             rdf:type
                                                                skos:Concept
## code:procedure-min
                             rdf:type
                                                                code:Procedure
## code:procedure-std
                             skos:topConceptOf
                                                                code:procedure
                             skos:prefLabel
## code:procedure-std
                                                                std
## code:procedure-std
                             skos:inScheme
                                                                code:procedure
## code:procedure-std
                             rrdfqbcrnd0:RdescStatDefFun
                                                                function (x) {
                                                                                    sd(x, na.rm = TRUE) }
## code:procedure-std
                             rrdfqbcrnd0:R-selectionvalue
                            rrdfqbcrnd0:R-selectionoperator
## code:procedure-std
## code:procedure-std
                             rdfs:comment
                                                                Descriptive statistics std
## code:procedure-std
                            rdf:type
                                                                skos:Concept
## code:procedure-std
                                                                code:Procedure
                            rdf:type
## code:procedure-q3
                             skos:topConceptOf
                                                                code:procedure
## code:procedure-q3
                             skos:prefLabel
## code:procedure-q3
                             skos:inScheme
                                                                code:procedure
## code:procedure-q3
                             rrdfqbcrnd0:RdescStatDefFun
                                                                function (x) {
                                                                                    quantile(x, probs = c
## code:procedure-q3
                             rrdfqbcrnd0:R-selectionvalue
## code:procedure-q3
                             rrdfqbcrnd0:R-selectionoperator
## code:procedure-q3
                             rdfs:comment
                                                                Descriptive statistics q3
## code:procedure-q3
                             rdf:type
                                                                skos:Concept
## code:procedure-q3
                             rdf:type
                                                                code:Procedure
## code:procedure-median
                             skos:topConceptOf
                                                                code:procedure
## code:procedure-median
                             skos:prefLabel
                                                                median
## code:procedure-median
                             skos:inScheme
                                                                code:procedure
## code:procedure-median
                             rrdfqbcrnd0:RdescStatDefFun
                                                                function (x) {
                                                                                    median(x, na.rm = TRU)
                             rrdfqbcrnd0:R-selectionvalue
## code:procedure-median
                                                                median
## code:procedure-median
                             rrdfqbcrnd0:R-selectionoperator
## code:procedure-median
                             rdfs:comment
                                                                Descriptive statistics median
## code:procedure-median
                             rdf:type
                                                                skos:Concept
## code:procedure-median
                             rdf:type
                                                                code:Procedure
                             skos:topConceptOf
## code:procedure-count
                                                                code:procedure
## code:procedure-count
                             skos:prefLabel
                                                                count
## code:procedure-count
                             skos:inScheme
                                                                code:procedure
## code:procedure-count
                             rrdfqbcrnd0:RdescStatDefFun
                                                                function (x) {
                                                                                    length(x) }
## code:procedure-count
                             rrdfqbcrnd0:R-selectionvalue
                                                                count
## code:procedure-count
                             rrdfqbcrnd0:R-selectionoperator
## code:procedure-count
                             rdfs:comment
                                                                Descriptive statistics count
## code:procedure-count
                             rdf:type
                                                                skos:Concept
## code:procedure-count
                             rdf:type
                                                                code:Procedure
## code:procedure-max
                             skos:topConceptOf
                                                                code:procedure
## code:procedure-max
                             skos:prefLabel
                                                                max
## code:procedure-max
                             skos:inScheme
                                                                code:procedure
                                                                                    max(x, na.rm = TRUE)
## code:procedure-max
                             rrdfqbcrnd0:RdescStatDefFun
                                                                function (x) {
## code:procedure-max
                             rrdfqbcrnd0:R-selectionvalue
```

```
## code:procedure-max
                             rrdfqbcrnd0:R-selectionoperator
                                                                Descriptive statistics max
## code:procedure-max
                             rdfs:comment
                                                                skos:Concept
## code:procedure-max
                             rdf:type
## code:procedure-max
                             rdf:type
                                                                code:Procedure
## code:procedure-mean
                             skos:topConceptOf
                                                                code:procedure
## code:procedure-mean
                             skos:prefLabel
                                                                mean
## code:procedure-mean
                             skos:inScheme
                                                                code:procedure
                             rrdfqbcrnd0:RdescStatDefFun
## code:procedure-mean
                                                                function (x) {
                                                                                     mean(x, na.rm = TRUE)
## code:procedure-mean
                             rrdfqbcrnd0:R-selectionvalue
                                                                mean
## code:procedure-mean
                             rrdfqbcrnd0:R-selectionoperator
## code:procedure-mean
                             rdfs:comment
                                                                Descriptive statistics mean
## code:procedure-mean
                             rdf:type
                                                                skos:Concept
## code:procedure-mean
                             rdf:type
                                                                code:Procedure
## code:procedure-q1
                             skos:topConceptOf
                                                                code:procedure
## code:procedure-q1
                             skos:prefLabel
                                                                q1
## code:procedure-q1
                             skos:inScheme
                                                                code:procedure
## code:procedure-q1
                                                                function (x) {
                             rrdfqbcrnd0:RdescStatDefFun
                                                                                     quantile(x, probs = c
## code:procedure-q1
                             rrdfqbcrnd0:R-selectionvalue
                                                                q1
## code:procedure-q1
                            rrdfqbcrnd0:R-selectionoperator
## code:procedure-q1
                             rdfs:comment
                                                                Descriptive statistics q1
## code:procedure-q1
                             rdf:type
                                                                skos:Concept
## code:procedure-q1
                                                                code:Procedure
                             rdf:type
## code:procedure-n
                                                                code:procedure
                             skos:topConceptOf
                             skos:prefLabel
## code:procedure-n
## code:procedure-n
                             skos:inScheme
                                                                code:procedure
## code:procedure-n
                             rrdfqbcrnd0:RdescStatDefFun
                                                                function (x) {
                                                                                     length(x[!is.na(x)])
## code:procedure-n
                             rrdfqbcrnd0:R-selectionvalue
                             rrdfqbcrnd0:R-selectionoperator
## code:procedure-n
## code:procedure-n
                             rdfs:comment
                                                                Descriptive statistics n
## code:procedure-n
                             rdf:type
                                                                skos:Concept
## code:procedure-n
                             rdf:type
                                                                code:Procedure
## code:procedure-percent
                             skos:topConceptOf
                                                                code:procedure
## code:procedure-percent
                             skos:prefLabel
                                                                percent
                             skos:inScheme
## code:procedure-percent
                                                                code:procedure
## code:procedure-percent
                             rrdfqbcrnd0:RdescStatDefFun
                                                                function (x) {
                                                                                     -1 }
## code:procedure-percent
                             rrdfqbcrnd0:R-selectionvalue
                                                                percent
## code:procedure-percent
                             rrdfqbcrnd0:R-selectionoperator
## code:procedure-percent
                             rdfs:comment
                                                                Descriptive statistics percent
## code:procedure-percent
                             rdf:type
                                                                skos:Concept
## code:procedure-percent
                                                                code:Procedure
                             rdf:type
## code:procedure-q3
                                                                rdfs:Resource
                             rdf:type
## code:procedure-mean
                             rdf:type
                                                                rdfs:Resource
## code:procedure-q1
                             rdf:type
                                                                rdfs:Resource
## code:procedure-std
                                                                rdfs:Resource
                             rdf:type
## code:procedure-count
                             rdf:type
                                                                rdfs:Resource
## code:procedure-median
                             rdf:type
                                                                rdfs:Resource
## code:procedure-percent
                             rdf:type
                                                                rdfs:Resource
## code:procedure-min
                             rdf:type
                                                                rdfs:Resource
## code:procedure-max
                            rdf:type
                                                                rdfs:Resource
## code:procedure-n
                             rdf:type
                                                                rdfs:Resource
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOprocedure-median.rq
## [1] 10
##
```

##

```
## -----
## code:procedure-median
                       skos:topConceptOf
                                                   code:procedure
## code:procedure-median
                      skos:prefLabel
                                                   median
## code:procedure-median
                       skos:inScheme
                                                   code:procedure
                      rrdfqbcrnd0:RdescStatDefFun
                                                   function (x) {
## code:procedure-median
                                                                    median(x, na.rm = TRUE)
                      rrdfqbcrnd0:R-selectionvalue
## code:procedure-median
## code:procedure-median
                      rrdfqbcrnd0:R-selectionoperator
## code:procedure-median
                      rdfs:comment
                                                   Descriptive statistics median
## code:procedure-median
                      rdf:type
                                                   skos:Concept
## code:procedure-median
                      rdf:type
                                                   code:Procedure
## code:procedure-median
                                                   rdfs:Resource
                       rdf:type
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOprocedure.rq
## [1] 10
##
##
## procedure
                       prefLabel
                                 functiondef
## -----
                      max
## code:procedure-max
                                 function (x) {
                                                  max(x, na.rm = TRUE) }
sd(x, na.rm = TRUE) }
                                                  mean(x, na.rm = TRUE) }
                                                  min(x, na.rm = TRUE) }
                                                  -1 }
                                                  length(x) }
                  q3
n
                                function (x) {
                                                  quantile(x, probs = c(0.75), type = 2, na.r.
## code:procedure-q3
                                function (x) {
## code:procedure-n
                                                  length(x[!is.na(x)]) }
median(x, na.rm = TRUE) }
                                                   quantile(x, probs = c(0.25), type = 2, na.r.
## code:procedure-q1
                                 function (x) {
                       q1
```

#### This works do not change

```
dsdName<- GetDsdNameFromCube( store )
domainName<- GetDomainNameFromCube( store )
cat("dsdName ", dsdName, ", domainName ", domainName, "\n" )
## dsdName dsd-DEMO , domainName DEMO</pre>
```

```
forsparqlprefix<- GetForSparqlPrefix( domainName )
cat(forsparqlprefix,"\n")</pre>
```

```
## prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns">
## prefix skos: <a href="http://www.w3.org/2004/02/skos/core">
## prefix prov: <a href="http://www.w3.org/ns/prov">
## prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema">
## prefix dcat: <a href="http://www.w3.org/ns/dcat">
## prefix owl: <a href="http://www.w3.org/2002/07/owl">
## prefix xsd: <a href="http://www.w3.org/2002/07/owl">
## prefix pav: <a href="http://www.w3.org/2001/XMLSchema">
## prefix pav: <a href="http://purl.org/dc/elements/1.1/">http://purl.org/dc/elements/1.1/>
## prefix dct: <a href="http://purl.org/dc/terms/">http://purl.org/dc/terms/>
## prefix mms: <a href="http://rdf.cdisc.org/mms">http://rdf.cdisc.org/mms">
## prefix mms: <a href="http://rdf.cdisc.org/mms">http://rdf.cdisc.org/mms">http://rdf.cdisc.org/mms</a>
```

```
## prefix cts: <http://rdf.cdisc.org/ct/schema#>
## prefix cdiscs: <http://rdf.cdisc.org/std/schema#>
## prefix cdash-1-1: <a href="http://rdf.cdisc.org/std/cdash-1-1">http://rdf.cdisc.org/std/cdash-1-1">
## prefix cdashct: <http://rdf.cdisc.org/cdash-terminology#>
## prefix sdtmct: <http://rdf.cdisc.org/sdtm-terminology#>
## prefix sdtm-1-2: <http://rdf.cdisc.org/std/sdtm-1-2#>
## prefix sdtm-1-3: <http://rdf.cdisc.org/std/sdtm-1-3#>
## prefix sdtms-1-3: <http://rdf.cdisc.org/sdtm-1-3/schema#>
## prefix sdtmig-3-1-2: <http://rdf.cdisc.org/std/sdtmig-3-1-2#>
## prefix sdtmig-3-1-3: <http://rdf.cdisc.org/std/sdtmig-3-1-3#>
## prefix sendct: <http://rdf.cdisc.org/send-terminology#>
## prefix sendig-3-0: <http://rdf.cdisc.org/std/sendig-3-0#>
## prefix adamct: <http://rdf.cdisc.org/adam-terminology#>
## prefix adam-2-1: <http://rdf.cdisc.org/std/adam-2-1#>
## prefix adamig-1-0: <http://rdf.cdisc.org/std/adamig-1-0#>
## prefix adamvr-1-2: <http://rdf.cdisc.org/std/adamvr-1-2#>
## prefix qb: <http://purl.org/linked-data/cube#>
## prefix rrdfqbcrnd0: <http://www.example.org/rrdfqbcrnd0/>
## prefix code: <http://www.example.org/dc/code/>
## prefix dccs: <http://www.example.org/dc/demo/dccs/>
## prefix ds: <http://www.example.org/dc/demo/ds/>
## prefix crnd-dimension: <http://www.example.org/dc/dimension#>
## prefix crnd-attribute: <http://www.example.org/dc/attribute#>
## prefix crnd-measure: <http://www.example.org/dc/measure#>
##
```

$\mathbf{s}$	p	0
ds:obs114 ds:obs114 ds:obs114 ds:obs114 ds:obs114 ds:obs114	crnd-dimension:factor crnd-dimension:trt01a crnd-dimension:sex crnd-dimension:ethnic crnd-dimension:procedure crnd-dimension:race crnd-dimension:agegr1	code:factor-weightbl code:trt01a-Xanomeline_High_Dose code:sex- $ALL$ code:ethnic- $ALL$ code:procedure-min code:race- $ALL$ code:agegr1- $ALL$

## Getting triples with information of object if literal

rapper -i turtle -o dot /tmp/Rtmpcccgdg/rapperin.ttl | dot -x -Tpdf -ograph.pdf

See also (http://www.bioconductor.org/packages/release/bioc/vignettes/Rgraphviz/inst/doc/Rgraphviz.pdf) for Rgraphviz package - may be used to display graphs.

ToDo(MJA): move this to another package - is more an example of R code for making Rgraphvis statement

```
rq<- paste( forsparqlprefix,
,'
select *
where {
    ?s ?p ?o .
BIND( datatype(?o) as ?datatype )
BIND( isLiteral(?o) as ?isLiteral )
BIND( lang(?o) as ?lang )
values (?s) {
    (ds:obs114)
}
}
',
"\n"
)</pre>
```

```
res<- sparql.rdf(store, rq)
knitr::kable(res)

dimnames(res)

allIRI<- c( res[,1],res[,2])
uallIRI<- unique(allIRI)
L<- list()
for (i in 1:length(uallIRI) ) {
L[[ uallIRI[i] ]] <- paste( "L", i, sep="" )
}

rowcols<- cbind( as.matrix(apply(res[,1:2],c(1,2),function(x) as.character(L[[x]] ))),as.matrix(res[,3])
cat(paste(rowcols, sep=", "),"\n")</pre>
```

#### Check the statistics

ToDo(MJA): move this to another package - maybe the check package

```
stmtSQL<- GetSQLFromCube(store)
cat(stmtSQL$summStatSQL)</pre>
```