Usage of cube DEMO

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Introduction

This is not a good example yet. 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/3.2/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: 3385"
```

Execute the DEMO* SPARQL queries

```
rqFiles<- system.file("extdata/sample-rdf", list.files(system.file("extdata/sample-rdf",
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] 392
##
##
## codeList
                   codelevel
                                                                                           prefLabel
                                                                          codelist
## code:ethnic
                   code:factor-quantity
                                                                          code:factor
                                                                                           quantity
## code:ethnic
                   code:procedure-max
                                                                          code:procedure
                                                                                           max
## code:ethnic
                   code:procedure-q3
                                                                          code:procedure
                                                                                           q3
## code:ethnic
                   code:sex-F
                                                                          code:sex
                                                                                           F
## code:ethnic
                   code:sex-F
                                                                          code:sex
                                                                                           F
## code:ethnic
                    code:agegr1-_65
                                                                          code:agegr1
                                                                                           <65
## code:ethnic
                    code:factor-proportion
                                                                          code:factor
                                                                                           proportion
## code:ethnic
                    code:agegr1-_80
                                                                          code:agegr1
                                                                                           >80
## code:ethnic
                    code:race-_ALL_
                                                                          code:race
                                                                                           _ALL_
## code:ethnic
                    code:procedure-mean
                                                                          code:procedure
                                                                                           mean
## code:ethnic
                    code:trt01a-_ALL_
                                                                          code:trt01a
                                                                                           \_\mathtt{ALL}\_
```

```
## code:ethnic
                     code:sex-M
                                                                             code:sex
                                                                                               М
## code:ethnic
                     code:sex-M
                                                                             code:sex
## code:ethnic
                     code:ethnic-HISPANIC OR LATINO
                                                                             code:ethnic
                                                                                               HISPANIC OR
## code:ethnic
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
                                                                                               NATIVE HAWAI
                                                                             code:race
## code:ethnic
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
                                                                             code:race
                                                                                               NATIVE HAWAI
## code:ethnic
                     code:ethnic-NOT HISPANIC OR LATINO
                                                                             code:ethnic
                                                                                               NOT HISPANIC
## code:ethnic
                     code:procedure-median
                                                                             code:procedure
                                                                                               median
## code:ethnic
                     code:ethnic- NONMISS
                                                                             code:ethnic
                                                                                               NONMISS
## code:ethnic
                     code:ethnic-_NONMISS_
                                                                             code:ethnic
                                                                                               NONMISS
## code:ethnic
                     code:procedure-q1
                                                                             code:procedure
                                                                                               a1
## code:ethnic
                     code:trt01a-Xanomeline_High_Dose
                                                                             code:trt01a
                                                                                               Xanomeline H
## code:ethnic
                     code:agegr1-_ALL_
                                                                             code:agegr1
                                                                                               ALL
## code:ethnic
                     code:agegr1-_ALL_
                                                                             code:agegr1
                                                                                               _{\mathtt{ALL}}_{\mathtt{}}
## code:ethnic
                     code:sex-UN
                                                                                               UN
                                                                             code:sex
## code:ethnic
                    code:sex-UN
                                                                             code:sex
                                                                                               UN
## code:ethnic
                     code:sex-_ALL_
                                                                             code:sex
                                                                                               _ALL_
## code:ethnic
                     code:race-ASIAN
                                                                                               ASIAN
                                                                             code:race
## code:ethnic
                     code:race-ASIAN
                                                                             code:race
                                                                                               ASIAN
## code:ethnic
                     code:race-WHITE
                                                                             code:race
                                                                                               WHITE
## code:ethnic
                     code:race-WHITE
                                                                             code:race
                                                                                               WHITE
## code:ethnic
                     code:trt01a-_NONMISS_
                                                                             code:trt01a
                                                                                               _NONMISS_
## code:ethnic
                     code:sex- NONMISS
                                                                             code:sex
                                                                                               _NONMISS_
## code:ethnic
                     code:factor-age
                                                                             code:factor
                                                                                               age
## code:ethnic
                     code:ethnic-_ALL_
                                                                             code:ethnic
                                                                                               _ALL_
## code:ethnic
                     code:ethnic- ALL
                                                                             code:ethnic
                                                                                               ALL
## code:ethnic
                     code:procedure-n
                                                                             code:procedure
## code:ethnic
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                             code:race
                                                                                               AMERICAN IND
## code:ethnic
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                               AMERICAN IND
                                                                             code:race
## code:ethnic
                     code:trt01a-Placebo
                                                                             code:trt01a
                                                                                               Placebo
## code:ethnic
                     code:factor-weightbl
                                                                             code:factor
                                                                                               weightbl
## code:ethnic
                     code:trt01a-Xanomeline_Low_Dose
                                                                             code:trt01a
                                                                                               Xanomeline L
## code:ethnic
                     code:factor-_ALL_
                                                                             code:factor
                                                                                               _ALL_
## code:ethnic
                     code:procedure-percent
                                                                             code:procedure
                                                                                               percent
## code:ethnic
                     code:agegr1-65-80
                                                                                               65-80
                                                                             code:agegr1
## code:ethnic
                     code:procedure-min
                                                                             code:procedure
## code:ethnic
                     code:race-_NONMISS_
                                                                             code:race
                                                                                               NONMISS
## code:ethnic
                     code:agegr1- NONMISS
                                                                             code:agegr1
                                                                                               NONMISS
## code:ethnic
                     code:agegr1-_NONMISS_
                                                                             code:agegr1
                                                                                               NONMISS
## code:ethnic
                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                             code:race
                                                                                               BLACK OR AFR
## code:ethnic
                                                                                               BLACK OR AFR
                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                             code:race
## code:ethnic
                     code:factor- NONMISS
                                                                             code:factor
                                                                                               NONMISS
## code:ethnic
                    code:sex-U
                                                                             code:sex
                                                                                               IJ
## code:ethnic
                     code:sex-U
                                                                                               IJ
                                                                             code:sex
## code:ethnic
                     code:procedure-count
                                                                             code:procedure
                                                                                               count
## code:ethnic
                     code:procedure-std
                                                                             code:procedure
                                                                                               std
## code:agegr1
                     code:factor-quantity
                                                                             code:factor
                                                                                               quantity
## code:agegr1
                     code:procedure-max
                                                                             code:procedure
                                                                                               max
## code:agegr1
                     code:procedure-q3
                                                                             code:procedure
                                                                                               q3
## code:agegr1
                     code:sex-F
                                                                             code:sex
                                                                                               F
                                                                                               F
## code:agegr1
                     code:sex-F
                                                                             code:sex
## code:agegr1
                     code:agegr1-_65
                                                                                               <65
                                                                             code:agegr1
## code:agegr1
                     code:factor-proportion
                                                                             code:factor
                                                                                               proportion
## code:agegr1
                     code:agegr1-_80
                                                                             code:agegr1
                                                                                               >80
## code:agegr1
                     code:race- ALL
                                                                             code:race
                                                                                               _ALL_
```

```
## code:agegr1
                     code:procedure-mean
                                                                              code:procedure
                                                                                                mean
## code:agegr1
                     code:trt01a- ALL
                                                                              code:trt01a
                                                                                                ALL
                     code:sex-M
## code:agegr1
                                                                              code:sex
                                                                                                M
                     code:sex-M
                                                                              code:sex
## code:agegr1
                                                                                                М
## code:agegr1
                     code:ethnic-HISPANIC OR LATINO
                                                                              code:ethnic
                                                                                                HISPANIC OR
## code:agegr1
                     code:race-NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
                                                                              code:race
                                                                                                NATIVE HAWAI
## code:agegr1
                     code:race-NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
                                                                              code:race
                                                                                                NATIVE HAWAI
                     code:ethnic-NOT HISPANIC OR LATINO
                                                                                                NOT HISPANIC
## code:agegr1
                                                                              code:ethnic
                     code:procedure-median
## code:agegr1
                                                                              code:procedure
                                                                                                median
                     code:ethnic-_NONMISS_
## code:agegr1
                                                                              code:ethnic
                                                                                                {\tt NONMISS}_{\tt}
## code:agegr1
                     code:ethnic-_NONMISS_
                                                                              code:ethnic
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                     code:procedure-q1
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## code:agegr1
## code:agegr1
                     code:trt01a-Xanomeline_High_Dose
                                                                              code:trt01a
                                                                                                Xanomeline H
## code:agegr1
                     code:agegr1-_ALL_
                                                                              code:agegr1
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m ALL}_{
m }
## code:agegr1
                     code:agegr1-_ALL_
                                                                                                _ALL_
                                                                              code:agegr1
## code:agegr1
                     code:sex-UN
                                                                              code:sex
                                                                                                UN
                     code:sex-UN
                                                                              code:sex
                                                                                                UN
## code:agegr1
## code:agegr1
                     code:sex- ALL
                                                                              code:sex
                                                                                                ALL
                     code:race-ASIAN
                                                                              code:race
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## code:agegr1
                     code:race-ASIAN
## code:agegr1
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## code:agegr1
                     code:race-WHITE
                                                                              code:race
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## code:agegr1
                     code:race-WHITE
                                                                              code:race
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                     code:trt01a-_NONMISS_
## code:agegr1
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                                                                                                _NONMISS_
## code:agegr1
                     code:sex-_NONMISS_
                                                                              code:sex
                                                                                                NONMISS
                     code:factor-age
## code:agegr1
                                                                              code:factor
                                                                                                age
## code:agegr1
                     code:ethnic- ALL
                                                                              code:ethnic
                                                                                                _ALL_
## code:agegr1
                     code:ethnic-_ALL_
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                                                                                                _ALL_
                     code:procedure-n
## code:agegr1
                                                                              code:procedure
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## code:agegr1
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                              code:race
## code:agegr1
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                              code:race
                                                                                                AMERICAN IND
## code:agegr1
                     code:trt01a-Placebo
                                                                              code:trt01a
                                                                                                Placebo
## code:agegr1
                     code:factor-weightbl
                                                                              code:factor
                                                                                                weightbl
                     code:trt01a-Xanomeline_Low_Dose
## code:agegr1
                                                                              code:trt01a
                                                                                                Xanomeline L
                     code:factor-_ALL_
## code:agegr1
                                                                              code:factor
                                                                                                _ALL_
## code:agegr1
                     code:procedure-percent
                                                                              code:procedure
                                                                                                percent
                     code:agegr1-65-80
                                                                                                65-80
## code:agegr1
                                                                              code:agegr1
## code:agegr1
                     code:procedure-min
                                                                              code:procedure
## code:agegr1
                     code:race-_NONMISS_
                                                                              code:race
                                                                                                _NONMISS_
## code:agegr1
                     code:agegr1-_NONMISS_
                                                                              code:agegr1
                                                                                                NONMISS
## code:agegr1
                     code:agegr1-_NONMISS_
                                                                                                _NONMISS_
                                                                              code:agegr1
## code:agegr1
                     code:race-BLACK OR AFRICAN AMERICAN
                                                                              code:race
                                                                                                BLACK OR AFR
## code:agegr1
                     code:race-BLACK OR AFRICAN AMERICAN
                                                                              code:race
                                                                                                BLACK OR AFR
                     code:factor- NONMISS
                                                                              code:factor
                                                                                                NONMISS
## code:agegr1
                     code:sex-U
## code:agegr1
                                                                              code:sex
                                                                                                IJ
                     code:sex-U
## code:agegr1
                                                                              code:sex
                                                                                                IJ
## code:agegr1
                     code:procedure-count
                                                                              code:procedure
                                                                                                count
## code:agegr1
                     code:procedure-std
                                                                              code:procedure
                                                                                                std
## code:procedure
                     code:factor-quantity
                                                                              code:factor
                                                                                                quantity
## code:procedure
                     code:procedure-max
                                                                              code:procedure
                                                                                                max
## code:procedure
                     code:procedure-q3
                                                                              code:procedure
                                                                                                q3
## code:procedure
                     code:sex-F
                                                                              code:sex
                                                                                                F
                                                                                                F
                     code:sex-F
## code:procedure
                                                                              code:sex
## code:procedure
                     code:agegr1-_65
                                                                              code:agegr1
                                                                                                <65
## code:procedure
                     code:factor-proportion
                                                                              code:factor
                                                                                                proportion
```

```
## code:procedure
                     code:agegr1-80
                                                                              code:agegr1
                                                                                               >80
## code:procedure
                     code:race-_ALL_
                                                                              code:race
                                                                                                _ALL_
                                                                              code:procedure
## code:procedure
                     code:procedure-mean
                                                                                               mean
                     code:trt01a-_ALL_
## code:procedure
                                                                              code:trt01a
                                                                                               _ALL_
## code:procedure
                     code:sex-M
                                                                              code:sex
## code:procedure
                    code:sex-M
                                                                              code:sex
## code:procedure
                    code:ethnic-HISPANIC OR LATINO
                                                                              code:ethnic
                                                                                               HISPANIC OR
                                                                                               NATIVE HAWAI
                     code:race-NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:procedure
                                                                              code:race
## code:procedure
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
                                                                              code:race
                                                                                               NATIVE HAWAI
                     code:ethnic-NOT_HISPANIC_OR_LATINO
                                                                                               NOT HISPANIC
## code:procedure
                                                                              code:ethnic
## code:procedure
                     code:procedure-median
                                                                              code:procedure
                                                                                               median
## code:procedure
                     code:ethnic-_NONMISS_
                                                                              code:ethnic
                                                                                               _{	t NONMISS}_{	t }
## code:procedure
                    code:ethnic-_NONMISS_
                                                                              code:ethnic
                                                                                               _NONMISS_
## code:procedure
                     code:procedure-q1
                                                                              code:procedure
                                                                                               q1
                    code:trt01a-Xanomeline_High_Dose
## code:procedure
                                                                              code:trt01a
                                                                                               Xanomeline H
## code:procedure
                     code:agegr1-_ALL_
                                                                              code:agegr1
                                                                                               _ALL_
## code:procedure
                     code:agegr1-_ALL_
                                                                              code:agegr1
                                                                                               _ALL_
## code:procedure
                     code:sex-UN
                                                                              code:sex
                                                                                               UN
                    code:sex-UN
                                                                              code:sex
                                                                                               UN
## code:procedure
## code:procedure
                     code:sex- ALL
                                                                              code:sex
                                                                                                ALL
## code:procedure
                     code:race-ASIAN
                                                                              code:race
                                                                                               ASIAN
## code:procedure
                     code:race-ASIAN
                                                                              code:race
                                                                                               ASIAN
                    code:race-WHITE
## code:procedure
                                                                              code:race
                                                                                               WHITE
## code:procedure
                     code:race-WHITE
                                                                              code:race
                                                                                               WHITE
                     code:trt01a-_NONMISS_
## code:procedure
                                                                              code:trt01a
                                                                                               NONMISS
## code:procedure
                     code:sex- NONMISS
                                                                              code:sex
                                                                                               _NONMISS_
## code:procedure
                     code:factor-age
                                                                              code:factor
                                                                                               age
                    code:ethnic-_ALL_
## code:procedure
                                                                              code:ethnic
                                                                                               _ALL_
## code:procedure
                    code:ethnic-_ALL_
                                                                              code:ethnic
                                                                                               _{
m ALL}_{
m }
## code:procedure
                    code:procedure-n
                                                                              code:procedure
## code:procedure
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                              code:race
                                                                                               AMERICAN IND
## code:procedure
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                              code:race
                                                                                               AMERICAN IND
## code:procedure
                     code:trt01a-Placebo
                                                                              code:trt01a
                                                                                               Placebo
                     code:factor-weightbl
                                                                              code:factor
## code:procedure
                                                                                               weightbl
## code:procedure
                     code:trt01a-Xanomeline Low Dose
                                                                              code:trt01a
                                                                                               Xanomeline L
## code:procedure
                     code:factor-_ALL_
                                                                              code:factor
                                                                                               _ALL_
## code:procedure
                     code:procedure-percent
                                                                              code:procedure
                                                                                               percent
## code:procedure
                     code:agegr1-65-80
                                                                              code:agegr1
                                                                                               65-80
## code:procedure
                     code:procedure-min
                                                                              code:procedure
## code:procedure
                     code:race-_NONMISS_
                                                                              code:race
                                                                                               _NONMISS_
## code:procedure
                     code:agegr1- NONMISS
                                                                              code:agegr1
                                                                                               NONMISS
## code:procedure
                     code:agegr1-_NONMISS_
                                                                              code:agegr1
                                                                                                NONMISS
                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                               BLACK OR AFR
## code:procedure
                                                                              code:race
                    code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                               BLACK OR AFR
## code:procedure
                                                                              code:race
                    code:factor-_NONMISS_
                                                                                               _NONMISS_
## code:procedure
                                                                              code:factor
                    code:sex-U
## code:procedure
                                                                              code:sex
                                                                                               IJ
## code:procedure
                     code:sex-U
                                                                              code:sex
## code:procedure
                     code:procedure-count
                                                                              code:procedure
                                                                                               count
## code:procedure
                     code:procedure-std
                                                                              code:procedure
                                                                                               std
## code:factor
                     code:factor-quantity
                                                                              code:factor
                                                                                               quantity
## code:factor
                     code:procedure-max
                                                                              code:procedure
                                                                                               max
## code:factor
                     code:procedure-q3
                                                                              code:procedure
                                                                                               q3
## code:factor
                     code:sex-F
                                                                              code:sex
                                                                                               F
## code:factor
                     code:sex-F
                                                                              code:sex
                                                                                               F
```

```
## code:factor
                     code:agegr1-_65
                                                                             code:agegr1
                                                                                               <65
                     code:factor-proportion
## code:factor
                                                                             code:factor
                                                                                               proportion
## code:factor
                     code:agegr1-80
                                                                             code:agegr1
                                                                                               >80
## code:factor
                     code:race-_ALL_
                                                                             code:race
                                                                                               _ALL_
## code:factor
                     code:procedure-mean
                                                                             code:procedure
                                                                                               mean
## code:factor
                     code:trt01a- ALL
                                                                             code:trt01a
                                                                                               ALL
                                                                             code:sex
## code:factor
                    code:sex-M
                                                                                               М
## code:factor
                    code:sex-M
                                                                             code:sex
                                                                                               Μ
## code:factor
                     code:ethnic-HISPANIC_OR_LATINO
                                                                             code:ethnic
                                                                                               HISPANIC OR
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
## code:factor
                                                                             code:race
                                                                                               NATIVE HAWAI
## code:factor
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
                                                                             code:race
                                                                                               NATIVE HAWAI
                                                                                               NOT HISPANIC
## code:factor
                     code:ethnic-NOT_HISPANIC_OR_LATINO
                                                                             code:ethnic
## code:factor
                     code:procedure-median
                                                                             code:procedure
                                                                                               median
## code:factor
                     code:ethnic-_NONMISS_
                                                                             code:ethnic
                                                                                               {	t NONMISS}_{	t }
## code:factor
                     code:ethnic-_NONMISS_
                                                                             code:ethnic
                                                                                               _NONMISS_
## code:factor
                     code:procedure-q1
                                                                             code:procedure
                                                                                               q1
## code:factor
                     code:trt01a-Xanomeline_High_Dose
                                                                             code:trt01a
                                                                                               Xanomeline H
## code:factor
                     code:agegr1- ALL
                                                                             code:agegr1
                                                                                               ALL
## code:factor
                    code:agegr1-_ALL_
                                                                             code:agegr1
                                                                                               _ALL_
                     code:sex-UN
                                                                                               UN
## code:factor
                                                                             code:sex
                     code:sex-UN
## code:factor
                                                                             code:sex
                                                                                               UN
## code:factor
                     code:sex- ALL
                                                                             code:sex
                                                                                               ALL
## code:factor
                    code:race-ASIAN
                                                                                               ASIAN
                                                                             code:race
## code:factor
                     code:race-ASIAN
                                                                             code:race
                                                                                               ASIAN
## code:factor
                     code:race-WHITE
                                                                             code:race
                                                                                               WHITE
## code:factor
                     code:race-WHITE
                                                                             code:race
                                                                                               WHITE
## code:factor
                     code:trt01a-_NONMISS_
                                                                             code:trt01a
                                                                                               _NONMISS_
## code:factor
                     code:sex-_NONMISS_
                                                                             code:sex
                                                                                               _NONMISS_
## code:factor
                     code:factor-age
                                                                             code:factor
                                                                                               age
## code:factor
                     code:ethnic-_ALL_
                                                                             code:ethnic
                                                                                               _ALL_
                     code:ethnic-_ALL_
## code:factor
                                                                             code:ethnic
                                                                                               _ALL_
## code:factor
                     code:procedure-n
                                                                             code:procedure
                                                                                               AMERICAN IND
## code:factor
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                             code:race
## code:factor
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                             code:race
                                                                                               AMERICAN IND
## code:factor
                     code:trt01a-Placebo
                                                                             code:trt01a
                                                                                               Placebo
## code:factor
                     code:factor-weightbl
                                                                             code:factor
                                                                                               weightbl
## code:factor
                     code:trt01a-Xanomeline_Low_Dose
                                                                             code:trt01a
                                                                                               Xanomeline L
## code:factor
                     code:factor-_ALL_
                                                                             code:factor
                                                                                               _ALL_
## code:factor
                     code:procedure-percent
                                                                             code:procedure
                                                                                               percent
                                                                                               65-80
## code:factor
                     code:agegr1-65-80
                                                                             code:agegr1
## code:factor
                     code:procedure-min
                                                                             code:procedure
                                                                                               min
## code:factor
                     code:race-_NONMISS_
                                                                             code:race
                                                                                               NONMISS
## code:factor
                     code:agegr1-_NONMISS_
                                                                             code:agegr1
                                                                                               NONMISS
## code:factor
                     code:agegr1-_NONMISS_
                                                                             code:agegr1
                                                                                               NONMISS_
## code:factor
                    code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                               BLACK OR AFR
                                                                             code:race
                    code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                               BLACK OR AFR
## code:factor
                                                                             code:race
## code:factor
                     code:factor-_NONMISS_
                                                                             code:factor
                                                                                               _NONMISS_
## code:factor
                     code:sex-U
                                                                             code:sex
                                                                                               U
## code:factor
                    code:sex-U
                                                                             code:sex
## code:factor
                     code:procedure-count
                                                                             code:procedure
                                                                                               count
## code:factor
                     code:procedure-std
                                                                             code:procedure
                                                                                               std
## code:trt01a
                     code:factor-quantity
                                                                             code:factor
                                                                                               quantity
## code:trt01a
                     code:procedure-max
                                                                             code:procedure
                                                                                               max
## code:trt01a
                     code:procedure-q3
                                                                             code:procedure
                                                                                               q3
```

```
F
## code:trt01a
                     code:sex-F
                                                                              code:sex
## code:trt01a
                     code:sex-F
                                                                                               F
                                                                              code:sex
                     code:agegr1- 65
## code:trt01a
                                                                              code:agegr1
                                                                                                <65
                     code:factor-proportion
## code:trt01a
                                                                              code:factor
                                                                                               proportion
## code:trt01a
                     code:agegr1-_80
                                                                              code:agegr1
                                                                                               >80
## code:trt01a
                     code:race- ALL
                                                                              code:race
                                                                                                ALL
## code:trt01a
                     code:procedure-mean
                                                                              code:procedure
                                                                                               mean
## code:trt01a
                     code:trt01a- ALL
                                                                              code:trt01a
                                                                                                ALL
## code:trt01a
                     code:sex-M
                                                                              code:sex
                                                                                               М
## code:trt01a
                     code:sex-M
                                                                              code:sex
                     code:ethnic-HISPANIC_OR_LATINO
## code:trt01a
                                                                              code:ethnic
                                                                                               HISPANIC OR
                                                                                               NATIVE HAWAI
## code:trt01a
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
                                                                              code:race
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
## code:trt01a
                                                                              code:race
                                                                                               NATIVE HAWAI
## code:trt01a
                     code:ethnic-NOT_HISPANIC_OR_LATINO
                                                                                               NOT HISPANIC
                                                                              code:ethnic
## code:trt01a
                     code:procedure-median
                                                                              code:procedure
                                                                                               median
## code:trt01a
                     code:ethnic-_NONMISS_
                                                                              code:ethnic
                                                                                                NONMISS_
## code:trt01a
                     code:ethnic-_NONMISS_
                                                                              code:ethnic
                                                                                                _NONMISS_
## code:trt01a
                     code:procedure-q1
                                                                              code:procedure
                                                                                                q1
## code:trt01a
                     code:trt01a-Xanomeline_High_Dose
                                                                                               Xanomeline H
                                                                              code:trt01a
## code:trt01a
                     code:agegr1-_ALL_
                                                                              code:agegr1
                                                                                                ALL
## code:trt01a
                     code:agegr1-_ALL_
                                                                              code:agegr1
                                                                                                _ALL_
## code:trt01a
                     code:sex-UN
                                                                              code:sex
                                                                                               UN
## code:trt01a
                     code:sex-UN
                                                                              code:sex
                                                                                               IIN
## code:trt01a
                     code:sex- ALL
                                                                              code:sex
                                                                                                ALL
## code:trt01a
                     code:race-ASIAN
                                                                              code:race
                                                                                                ASIAN
## code:trt01a
                     code:race-ASIAN
                                                                              code:race
                                                                                                ASIAN
## code:trt01a
                     code:race-WHITE
                                                                              code:race
                                                                                               WHITE
## code:trt01a
                     code:race-WHITE
                                                                              code:race
                                                                                               WHITE
## code:trt01a
                     code:trt01a-_NONMISS_
                                                                              code:trt01a
                                                                                                _NONMISS_
                     code:sex-_NONMISS_
## code:trt01a
                                                                              code:sex
                                                                                                _NONMISS_
## code:trt01a
                     code:factor-age
                                                                              code:factor
                                                                                                age
## code:trt01a
                     code:ethnic-_ALL_
                                                                              code:ethnic
                                                                                                _ALL_
## code:trt01a
                     code:ethnic-_ALL_
                                                                              code:ethnic
                                                                                                _{\mathtt{ALL}}_{\mathtt{}}
## code:trt01a
                     code:procedure-n
                                                                              code:procedure
                                                                                                AMERICAN IND
## code:trt01a
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                              code:race
## code:trt01a
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                              code:race
                                                                                                AMERICAN IND
## code:trt01a
                     code:trt01a-Placebo
                                                                              code:trt01a
                                                                                               Placebo
## code:trt01a
                     code:factor-weightbl
                                                                              code:factor
                                                                                               weightbl
## code:trt01a
                     code:trt01a-Xanomeline_Low_Dose
                                                                              code:trt01a
                                                                                               Xanomeline L
## code:trt01a
                     code:factor-_ALL_
                                                                              code:factor
                                                                                                _ALL_
## code:trt01a
                     code:procedure-percent
                                                                              code:procedure
                                                                                               percent
## code:trt01a
                     code:agegr1-65-80
                                                                              code:agegr1
                                                                                               65-80
## code:trt01a
                     code:procedure-min
                                                                              code:procedure
                                                                                               min
## code:trt01a
                     code:race-_NONMISS_
                                                                              code:race
                                                                                                _{	t NONMISS}_{	t }
## code:trt01a
                     code:agegr1-_NONMISS_
                                                                              code:agegr1
                                                                                               _NONMISS_
                     code:agegr1-_NONMISS_
## code:trt01a
                                                                                                _NONMISS_
                                                                              code:agegr1
                                                                                                BLACK OR AFR
## code:trt01a
                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                              code:race
## code:trt01a
                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                               BLACK OR AFR
                                                                              code:race
## code:trt01a
                     code:factor-_NONMISS_
                                                                              code:factor
                                                                                                NONMISS_
## code:trt01a
                     code:sex-U
                                                                              code:sex
## code:trt01a
                     code:sex-U
                                                                                               U
                                                                              code:sex
## code:trt01a
                     code:procedure-count
                                                                              code:procedure
                                                                                                count
## code:trt01a
                     code:procedure-std
                                                                              code:procedure
                                                                                               std
## code:sex
                     code:factor-quantity
                                                                              code:factor
                                                                                                quantity
```

```
## code:sex
                     code:procedure-max
                                                                               code:procedure
                                                                                                 max
## code:sex
                     code:procedure-q3
                                                                               code:procedure
                                                                                                 q3
## code:sex
                     code:sex-F
                                                                               code:sex
                                                                                                 F
## code:sex
                                                                                                 F
                     code:sex-F
                                                                               code:sex
## code:sex
                     code:agegr1-_65
                                                                               code:agegr1
                                                                                                 <65
## code:sex
                     code:factor-proportion
                                                                               code:factor
                                                                                                 proportion
## code:sex
                     code:agegr1-_80
                                                                                                 >80
                                                                               code:agegr1
## code:sex
                     code:race- ALL
                                                                               code:race
                                                                                                 ALL
## code:sex
                     code:procedure-mean
                                                                               code:procedure
                                                                                                 mean
## code:sex
                     code:trt01a-_ALL_
                                                                               code:trt01a
                                                                                                 _{\mathtt{ALL}}_{\mathtt{}}
## code:sex
                     code:sex-M
                                                                               code:sex
## code:sex
                     code:sex-M
                                                                               code:sex
## code:sex
                     code:ethnic-HISPANIC_OR_LATINO
                                                                               code:ethnic
                                                                                                 HISPANIC OR
## code:sex
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
                                                                               code:race
                                                                                                 NATIVE HAWAI
## code:sex
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
                                                                               code:race
                                                                                                 NATIVE HAWAI
                     code:ethnic-NOT_HISPANIC_OR_LATINO
## code:sex
                                                                               code:ethnic
                                                                                                 NOT HISPANIC
## code:sex
                     code:procedure-median
                                                                               code:procedure
                                                                                                 median
## code:sex
                     code:ethnic- NONMISS
                                                                               code:ethnic
                                                                                                 NONMISS
## code:sex
                     code:ethnic-_NONMISS_
                                                                                                 _NONMISS_
                                                                               code:ethnic
## code:sex
                     code:procedure-q1
                                                                               code:procedure
                                                                                                 q1
## code:sex
                     code:trt01a-Xanomeline_High_Dose
                                                                               code:trt01a
                                                                                                 Xanomeline H
## code:sex
                     code:agegr1-_ALL_
                                                                               code:agegr1
                                                                                                 ALL
## code:sex
                     code:agegr1-_ALL_
                                                                               code:agegr1
                                                                                                 _ALL_
## code:sex
                     code:sex-UN
                                                                               code:sex
                                                                                                 UN
## code:sex
                                                                                                 UN
                     code:sex-UN
                                                                               code:sex
## code:sex
                     code:sex- ALL
                                                                               code:sex
                                                                                                 ALL
## code:sex
                     code:race-ASIAN
                                                                               code:race
                                                                                                 ASIAN
## code:sex
                     code:race-ASIAN
                                                                               code:race
                                                                                                 ASIAN
## code:sex
                     code:race-WHITE
                                                                                                 WHITE
                                                                               code:race
## code:sex
                     code:race-WHITE
                                                                               code:race
                                                                                                 WHITE
## code:sex
                     code:trt01a-_NONMISS_
                                                                               code:trt01a
                                                                                                 {\tt NONMISS}_{\tt}
## code:sex
                     code:sex-_NONMISS_
                                                                               code:sex
                                                                                                 _NONMISS_
## code:sex
                     code:factor-age
                                                                               code:factor
                                                                                                 age
                                                                               code:ethnic
## code:sex
                     code:ethnic-_ALL_
                                                                                                 _{\mathtt{ALL}}_{\mathtt{}}
                                                                                                 _ALL
## code:sex
                     code:ethnic-_ALL_
                                                                               code:ethnic
## code:sex
                     code:procedure-n
                                                                               code:procedure
## code:sex
                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
                                                                               code:race
                                                                                                 AMERICAN IND
## code:sex
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                               code:race
                                                                                                 AMERICAN IND
## code:sex
                     code:trt01a-Placebo
                                                                               code:trt01a
                                                                                                 Placebo
## code:sex
                     code:factor-weightbl
                                                                                                 weightbl
                                                                               code:factor
## code:sex
                     code:trt01a-Xanomeline Low Dose
                                                                                                 Xanomeline L
                                                                               code:trt01a
## code:sex
                     code:factor- ALL
                                                                               code:factor
                                                                                                 ALL
## code:sex
                     code:procedure-percent
                                                                               code:procedure
                                                                                                 percent
## code:sex
                     code:agegr1-65-80
                                                                                                 65-80
                                                                               code:agegr1
## code:sex
                     code:procedure-min
                                                                               code:procedure
                                                                                                 min
                     code:race-_NONMISS_
## code:sex
                                                                               code:race
                                                                                                 _NONMISS_
## code:sex
                     code:agegr1-_NONMISS_
                                                                               code:agegr1
                                                                                                 NONMISS_
## code:sex
                     code:agegr1-_NONMISS_
                                                                               code:agegr1
                                                                                                 {\tt NONMISS}_{\tt}
## code:sex
                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                               code:race
                                                                                                 BLACK OR AFR
                                                                                                 BLACK OR AFR
## code:sex
                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                               code:race
## code:sex
                     code:factor-_NONMISS_
                                                                               code:factor
                                                                                                 NONMISS_
## code:sex
                     code:sex-U
                                                                               code:sex
                                                                                                 IJ
## code:sex
                     code:sex-U
                                                                               code:sex
                                                                                                 U
```

code:procedure

count

code:procedure-count

code:sex

```
## code:sex
                     code:procedure-std
                                                                              code:procedure
                                                                                                std
## code:race
                     code:factor-quantity
                                                                              code:factor
                                                                                               quantity
## code:race
                     code:procedure-max
                                                                              code:procedure
                                                                                               max
                     code:procedure-q3
## code:race
                                                                              code:procedure
                                                                                               q3
## code:race
                     code:sex-F
                                                                              code:sex
                                                                                               F
## code:race
                     code:sex-F
                                                                                               F
                                                                              code:sex
## code:race
                     code:agegr1- 65
                                                                              code:agegr1
                                                                                                <65
## code:race
                     code:factor-proportion
                                                                              code:factor
                                                                                               proportion
## code:race
                     code:agegr1-_80
                                                                              code:agegr1
                                                                                               >80
## code:race
                     code:race-_ALL_
                                                                              code:race
                                                                                                _ALL_
## code:race
                     code:procedure-mean
                                                                              code:procedure
                                                                                               mean
## code:race
                     code:trt01a-_ALL_
                                                                              code:trt01a
                                                                                                _ALL_
                     code:sex-M
## code:race
                                                                              code:sex
## code:race
                     code:sex-M
                                                                              code:sex
                     code:ethnic-HISPANIC_OR_LATINO
## code:race
                                                                              code:ethnic
                                                                                               HISPANIC OR
## code:race
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
                                                                              code:race
                                                                                               NATIVE HAWAI
## code:race
                     code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER
                                                                              code:race
                                                                                               NATIVE HAWAI
## code:race
                     code:ethnic-NOT_HISPANIC_OR_LATINO
                                                                              code:ethnic
                                                                                               NOT HISPANIC
## code:race
                     code:procedure-median
                                                                              code:procedure
                                                                                               median
## code:race
                     code:ethnic- NONMISS
                                                                              code:ethnic
                                                                                                NONMISS
## code:race
                     code:ethnic-_NONMISS_
                                                                              code:ethnic
                                                                                                _NONMISS_
## code:race
                     code:procedure-q1
                                                                              code:procedure
                                                                                                q1
## code:race
                                                                                               Xanomeline H
                     code:trt01a-Xanomeline_High_Dose
                                                                              code:trt01a
                                                                                                _ALL
## code:race
                     code:agegr1-_ALL_
                                                                              code:agegr1
                     code:agegr1-_ALL_
## code:race
                                                                              code:agegr1
                                                                                                _ALL_
## code:race
                     code:sex-UN
                                                                              code:sex
                                                                                               UN
## code:race
                     code:sex-UN
                                                                              code:sex
                                                                                               UN
## code:race
                     code:sex-_ALL_
                                                                              code:sex
                                                                                                _ALL_
                     code:race-ASIAN
## code:race
                                                                              code:race
                                                                                                ASIAN
                     code:race-ASIAN
## code:race
                                                                              code:race
                                                                                                ASIAN
## code:race
                     code:race-WHITE
                                                                              code:race
                                                                                               WHITE
## code:race
                     code:race-WHITE
                                                                              code:race
                                                                                                WHITE
                     code:trt01a-_NONMISS_
## code:race
                                                                              code:trt01a
                                                                                                _NONMISS_
## code:race
                     code:sex-_NONMISS_
                                                                                                _NONMISS_
                                                                              code:sex
## code:race
                     code:factor-age
                                                                              code:factor
                                                                                                age
## code:race
                     code:ethnic-_ALL_
                                                                              code:ethnic
                                                                                                _ALL_
## code:race
                     code:ethnic- ALL
                                                                              code:ethnic
                                                                                                ALL
## code:race
                     code:procedure-n
                                                                              code:procedure
## code:race
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                              code:race
                                                                                                AMERICAN IND
                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## code:race
                                                                              code:race
                                                                                                AMERICAN IND
## code:race
                     code:trt01a-Placebo
                                                                              code:trt01a
                                                                                               Placebo
## code:race
                     code:factor-weightbl
                                                                              code:factor
                                                                                               weightbl
## code:race
                     code:trt01a-Xanomeline Low Dose
                                                                                               Xanomeline L
                                                                              code:trt01a
## code:race
                     code:factor-_ALL_
                                                                              code:factor
                                                                                                _{\mathtt{ALL}}_{\mathtt{}}
## code:race
                     code:procedure-percent
                                                                              code:procedure
                                                                                               percent
                                                                                               65-80
## code:race
                     code:agegr1-65-80
                                                                              code:agegr1
## code:race
                     code:procedure-min
                                                                              code:procedure
                                                                                               min
## code:race
                     code:race-_NONMISS_
                                                                              code:race
                                                                                                {	t NONMISS}
## code:race
                     code:agegr1-_NONMISS_
                                                                              code:agegr1
                                                                                                _NONMISS_
## code:race
                     code:agegr1-_NONMISS_
                                                                              code:agegr1
                                                                                                _NONMISS_
## code:race
                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                BLACK OR AFR
                                                                              code:race
## code:race
                     code:race-BLACK OR AFRICAN AMERICAN
                                                                                               BLACK OR AFR
                                                                              code:race
## code:race
                     code:factor- NONMISS
                                                                              code:factor
                                                                                                NONMISS
## code:race
                     code:sex-U
                                                                              code:sex
```

```
## code:race
                    code:sex-U
                                                                           code:sex
## code:race
                    code:procedure-count
                                                                           code:procedure
                                                                                            count
## code:race
                    code:procedure-std
                                                                           code:procedure
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOdimensions.rq
##
##
## 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
##
##
## s
## -----
## 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
                            rdfs:comment
## code:factor-weightbl
                                                               Coded values from data source. No reconci
## code:factor-weightbl
                                                               skos:Concept
                            rdf:type
## code:factor-weightbl
                            rdf:type
                                                               code:Factor
## code:factor-age
                            skos:topConceptOf
                                                               code:factor
## code:factor-age
                            skos:prefLabel
                                                               age
                            skos:inScheme
## code:factor-age
                                                               code:factor
## code:factor-age
                            rrdfqbcrnd0:R-selectionvalue
                                                               age
                            rrdfqbcrnd0:R-selectionoperator
## code:factor-age
## code:factor-age
                            rrdfqbcrnd0:DataSetRefD2RQ
                                                               rrdfqbcrnd0:ADSL AGE
                            rdfs:comment
                                                               Coded values from data source. No reconci
## code:factor-age
## 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
                                                               \mathtt{ALL}
## code:factor-_ALL_
                            skos:inScheme
                                                               code:factor
## code:factor-_ALL_
                            rdfs:comment
                                                               NON-CDISC: Represents all codelist catego:
## 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
## code:factor-quantity
                            skos:inScheme
                                                               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
                            rdf:type
                                                               skos:Concept
## code:factor-quantity
                            rdf:type
                                                               code:Factor
```

```
## 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
## code:factor-_NONMISS_
                           rdfs:comment
                                                            NON-CDISC: Represents the non-missing cod
## code:factor-_NONMISS_
                          rdf:type
                                                            skos:Concept
## 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
                          {\tt rrdfqbcrnd0:} R{\tt -selectionoperator}
## code:factor-proportion
## code:factor-proportion
                          rdfs:comment
                                                            Coded values from data source. No reconci
## code:factor-proportion
                          rdf:type
                                                            skos:Concept
## code:factor-proportion
                          rdf:type
                                                           code:Factor
## code:factor-proportion
                          rdf:type
                                                           rdfs:Resource
## code:factor-_NONMISS_
                          rdf:type
                                                           rdfs:Resource
## code:factor-quantity
                          rdf:type
                                                           rdfs:Resource
## code:factor-_ALL_
                                                           rdfs:Resource
                          rdf:type
## code:factor-age
                          rdf:type
                                                           rdfs:Resource
## 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_
                                       NA
## code:factor-proportion proportion
                                                                  proportion
## code:factor-weightbl
                                       rrdfqbcrnd0:ADSL_WEIGHTBL
                                                                  weightbl
                          weightbl
## code:factor-_NONMISS_
## code:factor-quantity
                           _NONMISS_
                          quantity
                                       NA
                                                                  quantity
## code:factor-age
                                       rrdfqbcrnd0:ADSL_AGE
                           age
                                                                  age
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations-R-data-par
## [1] 2
##
##
## obs 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
                                                          Xanomeline Low Dose
## ds:obs056
             trt01a
                                                          65-80
## ds:obs056 agegr1
                                      ==
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations.rq
## [1] 588
```

```
##
##
               ethnic
                                                                                                    proced
## ds:obs103
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs103
               code:ethnic- ALL
                                                                                                    code:p
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs103
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs103
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs014
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs014
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs014
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs014
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs014
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs014
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs014
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs014
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs089
               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
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs089
               code:ethnic-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs089
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
## ds:obs089
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs089
               code:ethnic-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs089
                                                                                                    code:p
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
## ds:obs089
               code:ethnic-_ALL_
## ds:obs019
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs019
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs019
                                                                                                    code:p
## ds:obs019
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs031
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
                                                     code:race-_ALL_
## ds:obs031
               code:ethnic-_ALL_
                                                                                                    code:p
## ds:obs031
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs031
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs013
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs013
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs013
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs013
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs013
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs013
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs013
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs013
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-NOT HISPANIC OR LATINO
## ds:obs124
                                                     code:race- ALL
                                                                                                    code:p
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                     code:race- ALL
## ds:obs124
                                                                                                    code:p
## ds:obs084
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs084
               code:ethnic-_ALL_
                                                                                                    code:p
## ds:obs084
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs084
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs084
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs084
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs084
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs084
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs129
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs129
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs088
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs088
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
                                                                                                    code:p
```

```
## ds:obs088
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs088
               code:ethnic-_ALL_
## ds:obs088
               code:ethnic- ALL
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
## ds:obs088
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
               code:ethnic-_ALL_
## ds:obs088
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
## ds:obs088
               code:ethnic- ALL
## ds:obs041
               code:ethnic- ALL
                                                     code:race- ALL
               code:ethnic- ALL
## ds:obs041
                                                     code:race-_ALL_
## ds:obs041
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs041
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs123
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                     code:race-_ALL_
               code:ethnic-NOT_HISPANIC_OR_LATINO
## ds:obs123
                                                     code:race-_ALL_
                                                     code:race-_ALL_
## ds:obs094
               code:ethnic-_ALL_
## ds:obs094
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs094
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs094
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs098
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs098
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs098
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs098
## ds:obs048
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs048
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs048
## ds:obs048
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs093
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs093
               code:ethnic- ALL
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs093
## ds:obs093
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs097
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                     code:race-_ALL_
## ds:obs097
               code:ethnic-_ALL_
## ds:obs097
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs097
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs021
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs021
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs021
## ds:obs021
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs058
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs058
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-HISPANIC_OR_LATINO
## ds:obs132
                                                     code:race-_ALL_
               code:ethnic-HISPANIC_OR_LATINO
## ds:obs132
                                                     code:race-_ALL_
## ds:obs027
               code:ethnic- ALL
                                                     code:race- ALL
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs027
## ds:obs027
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs027
## ds:obs020
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs020
## ds:obs020
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs020
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs056
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs056
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs130
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race-_ALL_
## ds:obs130
               code:ethnic-HISPANIC OR LATINO
                                                     code:race- ALL
## ds:obs051
               code:ethnic-_ALL_
                                                     code:race-_ALL_
```

code:p

code:race-_ALL_

code:ethnic-_ALL_

ds:obs051

```
## ds:obs007
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs007
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs007
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs007
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs007
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs007
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs007
               code:ethnic- ALL
                                                     code:race- ALL
               code:ethnic- ALL
## ds:obs007
                                                     code:race- ALL
## ds:obs055
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs055
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs076
               code:ethnic-_ALL_
                                                     code:race-WHITE
               code:ethnic-_ALL_
## ds:obs076
                                                     code:race-WHITE
               code:ethnic-_ALL_
## ds:obs076
                                                     code:race-WHITE
## ds:obs076
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs076
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs076
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs076
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs076
               code:ethnic- ALL
                                                     code:race-WHITE
               code:ethnic-_NONMISS_
## ds:obs117
                                                     code:race-_ALL_
                                                     code:race-_ALL_
## ds:obs117
               code:ethnic-_NONMISS_
## ds:obs117
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
## ds:obs117
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
## ds:obs072
## ds:obs072
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
## ds:obs072
               code:ethnic- ALL
                                                     code:race-_NONMISS_
## ds:obs072
               code:ethnic- ALL
                                                     code:race- NONMISS
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs001
## ds:obs001
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs001
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                     code:race-_ALL_
## ds:obs001
               code:ethnic-_ALL_
## ds:obs026
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs026
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs026
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs026
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs006
                                                     code:race-_ALL_
## ds:obs006
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs006
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs006
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs106
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs106
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs106
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs106
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs061
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs061
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs065
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs065
## ds:obs111
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs111
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs111
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs111
                                                     code:race-_ALL_
## ds:obs071
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
## ds:obs071
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
## ds:obs071
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
               code:ethnic-_ALL_
## ds:obs071
                                                     code:race-_NONMISS_
```

code:p

```
## ds:obs116
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
## ds:obs116
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
               code:ethnic- NONMISS
## ds:obs116
                                                     code:race- ALL
               code:ethnic-_NONMISS_
## ds:obs116
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs075
                                                     code:race-WHITE
## ds:obs075
               code:ethnic- ALL
                                                     code:race-WHITE
## ds:obs075
               code:ethnic- ALL
                                                     code:race-WHITE
               code:ethnic- ALL
## ds:obs075
                                                     code:race-WHITE
## ds:obs075
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs075
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs075
               code:ethnic-_ALL_
                                                     code:race-WHITE
               code:ethnic-_ALL_
## ds:obs075
                                                     code:race-WHITE
               code:ethnic-_ALL_
## ds:obs100
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs100
## ds:obs100
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs100
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs105
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs105
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs105
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs105
## ds:obs060
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs060
               code:ethnic- ALL
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs016
## ds:obs016
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs016
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs016
               code:ethnic- ALL
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs016
## ds:obs016
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs016
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs016
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs064
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs064
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs036
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs036
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs036
                                                     code:race-_ALL_
## ds:obs036
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs110
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs110
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs110
                                                     code:race-_ALL_
## ds:obs110
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-NOT HISPANIC OR LATINO
## ds:obs126
                                                     code:race- ALL
## ds:obs126
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                     code:race- ALL
## ds:obs081
               code:ethnic- ALL
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs081
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs081
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
               code:ethnic-_ALL_
## ds:obs081
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs081
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs081
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
               code:ethnic-_ALL_
## ds:obs081
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs081
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs010
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs010
               code:ethnic-_ALL_
                                                     code:race- ALL
## ds:obs010
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs010
               code:ethnic-_ALL_
                                                     code:race-_ALL_
```

code:p

```
## ds:obs010
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs010
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs010
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs010
                                                                                                    code:p
## ds:obs085
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
## ds:obs085
               code:ethnic- ALL
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
                                                                                                    code:p
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
## ds:obs085
               code:ethnic- ALL
                                                                                                    code:p
## ds:obs085
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs085
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs035
                                                     code:race-_ALL_
                                                                                                    code:p
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs035
               code:ethnic-_ALL_
## ds:obs035
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs035
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs120
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs120
               code:ethnic- NONMISS
                                                     code:race- ALL
                                                                                                    code:p
               code:ethnic-_NONMISS_
## ds:obs120
                                                     code:race-_ALL_
                                                                                                    code:p
                                                     code:race-_ALL_
## ds:obs120
               code:ethnic-_NONMISS_
                                                                                                    code:p
## ds:obs080
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs080
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs080
               code:ethnic- ALL
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs080
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs080
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs080
               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:obs080
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
## ds:obs033
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs090
               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
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs090
                                                                                                    code:p
## ds:obs090
               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:obs090
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs090
               code:ethnic-_ALL_
                                                                                                    code:p
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs090
               code:ethnic-_ALL_
                                                                                                    code:p
## ds:obs015
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs015
                                                                                                    code:p
## ds:obs015
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs015
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs015
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs015
                                                                                                    code:p
## ds:obs015
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs015
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs043
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs043
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs043
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs043
               code:ethnic- ALL
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs125
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                      code:race-_ALL_
                                                                                                    code:p
## ds:obs125
               code:ethnic-NOT HISPANIC OR LATINO
                                                     code:race-_ALL_
                                                                                                    code:p
```

```
## ds:obs042
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs042
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs042
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs042
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs095
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs095
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs095
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs095
               code:ethnic-_ALL_
                                                     code:race- ALL
## ds:obs099
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs099
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs099
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs099
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs052
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs052
## ds:obs029
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs029
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs029
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs029
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs023
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs023
## ds:obs023
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs023
               code:ethnic- ALL
                                                     code:race-_ALL_
## ds:obs059
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs059
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs028
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs028
               code:ethnic- ALL
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs028
## ds:obs028
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs022
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                     code:race-_ALL_
## ds:obs022
               code:ethnic-_ALL_
## ds:obs022
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs022
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs009
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs009
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs009
## ds:obs009
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs009
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs009
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs009
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs009
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs057
               code:ethnic- ALL
                                                     code:race- ALL
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs057
## ds:obs038
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs038
## ds:obs038
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs038
## ds:obs003
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs003
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs003
                                                     code:race-_ALL_
## ds:obs003
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs119
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
## ds:obs119
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
## ds:obs119
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
## ds:obs119
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
```

code:p code:p

code:p

```
## ds:obs078
               code:ethnic- ALL
                                                     code:race-WHITE
## ds:obs078
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs078
               code:ethnic- ALL
                                                     code:race-WHITE
## ds:obs078
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs078
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs078
               code:ethnic- ALL
                                                     code:race-WHITE
## ds:obs078
               code:ethnic- ALL
                                                     code:race-WHITE
               code:ethnic- ALL
## ds:obs078
                                                     code:race-WHITE
## ds:obs008
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs008
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs008
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs008
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs008
                                                     code:race-_ALL_
                                                     code:race-_ALL_
## ds:obs008
               code:ethnic-_ALL_
## ds:obs008
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs008
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs108
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs108
               code:ethnic- ALL
                                                     code:race- ALL
               code:ethnic-_ALL_
## ds:obs108
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs108
## ds:obs118
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
## ds:obs118
               code:ethnic- NONMISS
                                                     code:race-_ALL_
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
## ds:obs118
## ds:obs118
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
## ds:obs067
               code:ethnic- ALL
                                                     code:race-_NONMISS_
## ds:obs067
               code:ethnic- ALL
                                                     code:race-_NONMISS_
                                                     code:race-_NONMISS_
               code:ethnic-_ALL_
## ds:obs067
## ds:obs067
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
## ds:obs018
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                     code:race-_ALL_
## ds:obs018
               code:ethnic-_ALL_
## ds:obs018
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs018
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs018
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs018
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs018
                                                     code:race-_ALL_
## ds:obs018
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs113
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs113
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs113
                                                     code:race-_ALL_
## ds:obs113
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs073
               code:ethnic- ALL
                                                     code:race-WHITE
## ds:obs073
               code:ethnic- ALL
                                                     code:race-WHITE
## ds:obs073
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs073
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs073
               code:ethnic-_ALL_
                                                     code:race-WHITE
               code:ethnic-_ALL_
## ds:obs073
                                                     code:race-WHITE
## ds:obs073
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs073
               code:ethnic-_ALL_
                                                     code:race-WHITE
               code:ethnic-_ALL_
## ds:obs002
                                                     code:race-_ALL_
## ds:obs002
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs002
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs002
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs102
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs102
               code:ethnic-_ALL_
                                                     code:race-_ALL_
```

code:p

```
## ds:obs102
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                     code:race-_ALL_
## ds:obs102
               code:ethnic-_ALL_
## ds:obs077
                                                     code:race-WHITE
               code:ethnic- ALL
## ds:obs077
               code:ethnic-_ALL_
                                                     code:race-WHITE
               code:ethnic-_ALL_
## ds:obs077
                                                     code:race-WHITE
## ds:obs077
               code:ethnic- ALL
                                                     code:race-WHITE
## ds:obs077
               code:ethnic- ALL
                                                     code:race-WHITE
               code:ethnic- ALL
## ds:obs077
                                                     code:race-WHITE
## ds:obs077
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs077
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs107
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs107
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs107
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs107
               code:ethnic-_ALL_
## ds:obs062
                                                     code:race-_ALL_
## ds:obs062
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs030
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs030
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs030
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs030
## ds:obs066
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs066
               code:ethnic- ALL
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs112
## ds:obs112
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs112
                                                     code:race- ALL
## ds:obs112
               code:ethnic- ALL
                                                     code:race-_ALL_
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race-_ALL_
## ds:obs128
## ds:obs128
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs083
               code:ethnic-_ALL_
## ds:obs083
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
               code:ethnic-_ALL_
## ds:obs083
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs083
               code:ethnic-_ALL_
## ds:obs101
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs101
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs101
                                                     code:race-_ALL_
## ds:obs101
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs012
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs012
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs012
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs012
## ds:obs012
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs012
## ds:obs012
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs012
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
## ds:obs017
                                                     code:race-_ALL_
## ds:obs017
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs017
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs017
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs017
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs017
               code:ethnic-_ALL_
                                                     code:race-_ALL_
```

code:p

```
## ds:obs017
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs017
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
## ds:obs087
               code:ethnic- ALL
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs087
                                                                                                    code:p
## ds:obs087
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
## ds:obs087
               code:ethnic- ALL
                                                                                                    code:p
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
## ds:obs087
               code:ethnic- ALL
                                                                                                    code:p
               code:ethnic- ALL
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs087
                                                                                                    code:p
## ds:obs087
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
## ds:obs087
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
## ds:obs037
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs037
                                                     code:race-_ALL_
                                                                                                    code:p
                                                     code:race-_ALL_
## ds:obs037
               code:ethnic-_ALL_
                                                                                                    code:p
## ds:obs037
               code:ethnic-_ALL_
                                                      code:race-_ALL_
                                                                                                    code:p
## ds:obs122
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                      code:race-_ALL_
                                                                                                    code:p
## ds:obs122
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                      code:race-_ALL_
                                                                                                    code:p
## ds:obs127
               code:ethnic-HISPANIC_OR_LATINO
                                                      code:race-_ALL_
                                                                                                    code:p
## ds:obs127
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs011
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs011
                                                                                                    code:p
## ds:obs011
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs011
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs011
                                                                                                    code:p
## ds:obs011
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs011
               code:ethnic- ALL
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs011
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
## ds:obs082
                                                                                                    code:p
## ds:obs082
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs086
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs086
                                                                                                    code:p
## ds:obs086
               code:ethnic- ALL
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
                                                                                                    code:p
## ds:obs086
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs086
                                                                                                    code:p
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs086
               code:ethnic-_ALL_
                                                                                                    code:p
                                                     code:race-AMERICAN INDIAN OR ALASKA NATIVE
## ds:obs086
               code:ethnic- ALL
                                                                                                    code:p
               code:ethnic- ALL
                                                     code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE
## ds:obs086
                                                                                                    code:p
## ds:obs047
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs047
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs047
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                      code:race-_ALL_
## ds:obs047
                                                                                                    code:p
## ds:obs121
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                      code:race-_ALL_
                                                                                                    code:p
## ds:obs121
               code:ethnic-NOT_HISPANIC_OR_LATINO
                                                      code:race-_ALL_
                                                                                                    code:p
## ds:obs092
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs092
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs092
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs092
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs096
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs096
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
```

```
## ds:obs096
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs096
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs046
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs046
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs046
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs046
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs045
               code:ethnic- ALL
                                                     code:race- ALL
               code:ethnic-_ALL_
## ds:obs045
                                                     code:race- ALL
## ds:obs045
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs045
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs131
               code:ethnic-HISPANIC_OR_LATINO
                                                     code:race-_ALL_
               code:ethnic-HISPANIC_OR_LATINO
## ds:obs131
                                                     code:race-_ALL_
## ds:obs091
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                     code:race-_ALL_
## ds:obs091
               code:ethnic-_ALL_
## ds:obs091
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs091
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs040
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs040
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs040
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs040
## ds:obs044
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs044
               code:ethnic- ALL
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs044
## ds:obs044
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs050
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs050
               code:ethnic- ALL
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs054
## ds:obs054
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs005
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs005
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs005
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs005
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs053
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs053
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs025
## ds:obs025
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs025
               code:ethnic- ALL
                                                     code:race- ALL
## ds:obs025
               code:ethnic-_ALL_
                                                     code:race-_ALL_
               code:ethnic-_NONMISS_
## ds:obs115
                                                     code:race-_ALL_
## ds:obs115
               code:ethnic-_NONMISS_
                                                     code:race-_ALL_
## ds:obs115
               code:ethnic- NONMISS
                                                     code:race- ALL
## ds:obs115
               code:ethnic- NONMISS
                                                     code:race- ALL
## ds:obs070
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
                                                     code:race-_NONMISS_
## ds:obs070
               code:ethnic-_ALL_
## ds:obs070
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
## ds:obs070
## ds:obs074
               code:ethnic-_ALL_
                                                     code:race-WHITE
## ds:obs074
               code:ethnic-_ALL_
                                                     code:race-WHITE
               code:ethnic-_ALL_
## ds:obs074
                                                     code:race-WHITE
## ds:obs074
               code:ethnic-_ALL_
                                                     code:race-WHITE
```

code:p

```
## ds:obs104
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs104
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs104
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs104
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs024
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs024
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs024
               code:ethnic- ALL
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs024
               code:ethnic-_ALL_
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs063
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs063
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs034
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                   code:p
               code:ethnic-_ALL_
## ds:obs034
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs034
                                                                                                    code:p
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs034
               code:ethnic-_ALL_
## ds:obs039
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs039
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs039
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs039
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
                                                     code:race-_NONMISS_
## ds:obs069
               code:ethnic-_ALL_
                                                                                                    code:p
## ds:obs069
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
                                                                                                   code:p
## ds:obs069
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
                                                                                                    code:p
## ds:obs069
                                                     code:race-_NONMISS_
               code:ethnic-_ALL_
                                                                                                   code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs004
                                                                                                    code:p
                                                                                                   code:p
## ds:obs004
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs004
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs004
               code:ethnic-_ALL_
                                                     code:race- ALL
                                                                                                   code:p
## ds:obs079
               code:ethnic-_ALL_
                                                     code:race-BLACK_OR_AFRICAN_AMERICAN
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs109
                                                                                                    code:p
## ds:obs109
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs109
               code:ethnic- ALL
                                                     code:race- ALL
                                                                                                    code:p
## ds:obs109
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
                                                     code:race-_NONMISS_
## ds:obs068
               code:ethnic-_ALL_
                                                                                                   code:p
## ds:obs068
               code:ethnic-_ALL_
                                                     code:race-_NONMISS_
                                                                                                    code:p
                                                     code:race- NONMISS
## ds:obs068
               code:ethnic- ALL
                                                                                                   code:p
                                                     code:race-_NONMISS_
               code:ethnic-_ALL_
## ds:obs068
                                                                                                    code:p
## ds:obs032
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                   code:p
## ds:obs032
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs032
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
                                                     code:race-_ALL_
## ds:obs032
                                                                                                    code:p
## ds:obs049
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                   code:p
## ds:obs049
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs114
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
               code:ethnic-_ALL_
## ds:obs114
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs114
               code:ethnic-_ALL_
                                                     code:race-_ALL_
                                                                                                    code:p
## ds:obs114
               code:ethnic-_ALL_
                                                     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)
## code:procedure-min
                             rrdfqbcrnd0:R-selectionvalue
                                                                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
## code:procedure-std
                             skos:topConceptOf
                             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) {
```

rrdfqbcrnd0:R-selectionvalue

code:procedure-max

```
## code:procedure-max
                             rrdfqbcrnd0:R-selectionoperator
                                                                Descriptive statistics max
## code:procedure-max
                             rdfs:comment
                             rdf:type
                                                                skos:Concept
## code:procedure-max
## 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
                                                                                     mean(x, na.rm = TRUE)
                             rrdfqbcrnd0:RdescStatDefFun
                                                                function (x) {
## code:procedure-mean
## code:procedure-mean
                             rrdfqbcrnd0:R-selectionvalue
                                                                mean
                             rrdfqbcrnd0:R-selectionoperator
## code:procedure-mean
## code:procedure-mean
                             rdfs:comment
                                                                Descriptive statistics mean
                             rdf:type
## code:procedure-mean
                                                                skos:Concept
## code:procedure-mean
                             rdf:type
                                                                code:Procedure
                                                                code:procedure
## code:procedure-q1
                             skos:topConceptOf
## code:procedure-q1
                             skos:prefLabel
                                                                q1
## code:procedure-q1
                             skos:inScheme
                                                                code:procedure
## code:procedure-q1
                             rrdfqbcrnd0:RdescStatDefFun
                                                                function (x) {
                                                                                     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
                             skos:topConceptOf
                                                                code:procedure
## code:procedure-n
                             skos:prefLabel
## 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
                             rdf:type
                                                                rdfs:Resource
## 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
## code:procedure-median
                             rrdfqbcrnd0:RdescStatDefFun
                                                                  function (x) {
                                                                                       median(x, na.rm = TRUE)
## code:procedure-median
                             rrdfqbcrnd0:R-selectionvalue
                             rrdfqbcrnd0:R-selectionoperator
## code:procedure-median
## 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) }
## code:procedure-mean mean function (x) {
## code:procedure-mean min function (x) {
## code:procedure-percent percent function (x) {
## code:procedure-count count function (x) {
## code:procedure-count count function (x) {
## code:procedure-count function (x) {
                                                                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), na.rm = TRUE)
## code:procedure-q3
                             q3
                                        function (x) {
## code:procedure-n
                                                                 length(x[!is.na(x)]) }
                             median function (x) {
## code:procedure-median
                                                                 median(x, na.rm = TRUE) }
                                                                 quantile(x, probs = c(0.25), na.rm = TRUE)
## 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: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
## prefix skos: <http://www.w3.org/2004/02/skos/core#>
## prefix prov: <http://www.w3.org/ns/prov#>
## prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>
## prefix dcat: <http://www.w3.org/s/dcat#>
## prefix owl: <http://www.w3.org/2002/07/owl#>
## prefix xsd: <http://www.w3.org/2001/XMLSchema#>
## prefix qb: <http://purl.org/linked-data/cube#>
## prefix pav: <http://purl.org/pav>
## prefix dct: <http://purl.org/dc/terms/>
## prefix mms: <http://rdf.cdisc.org/mms#>
```

```
## prefix cts: <http://rdf.cdisc.org/ct/schema#>
## 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#>
##
```

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

```
cons.rq<- paste( forsparqlprefix,
,
construct { ?s ?p ?o }
where {
?s ?p ?o .
BIND( datatype(?o) as ?datatype )
BIND( isLiteral(?o) as ?isLiteral )
BIND( lang(?o) as ?lang )</pre>
```

```
values (?s) {
  (ds:obs114)
}

,
  "\n"
)

save.rdf(construct.rdf( store, cons.rq) , file.path(tempdir(), "rapperin.ttl"), "TURTLE")
```

```
## [1] "/tmp/RtmpdwIBaZ/rapperin.ttl"
```

To see dot code generated by rapper:

```
rapper -i turtle -o dot /tmp/Rtmpcccgdg/rapperin.ttl
```

To display the dot code

```
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

```
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

 $\operatorname{ToDo}(\operatorname{MJA}):$ move this to another package - may be the check package

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