

# Usage of cube DEMO

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## Contents

<b>Introduction</b>	<b>1</b>
<b>Create DEMO sample table from CSV file</b>	<b>1</b>
Execute the DEMO* SPARQL queries . . . . .	2
This works do not change . . . . .	25
Getting triples with information of object if literal . . . . .	26

## 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.

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

```
## Loading rrdfqbcindex
```

```
library(rrdfqbcindex)
library(rrdfqb)

cubeVocabularyFn<- system.file("extdata/cube-vocabulary-rdf","cube.ttl", package="rrdfqb")
dataCubeFile<- system.file("extdata/sample-rdf", "DC-DEMO-sample.ttl", package="rrdfqbcindex")

store <- new.rdf() # Initialize

cat("Loading cube specfication from ", cubeVocabularyFn, "\n")
```

```
## 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")
```

```
## Loading cube from /home/ma/projects/R-projects/rrdfqbcindex/rrdfqbcindex/inst/extdata/sample-rdf/DC-I
```

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

summarize.rdf(store)
```

```
## [1] "Number of triples: 3381"
```

## Execute the DEMO\* SPARQL queries

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

for (rqFile in rqFiles) {
  cat("File ", rqFile, "\n")
  rq<- paste0(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/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOattributes.r
## [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/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOcodelist.rq
## [1] 392
##
##
## codeList      codelevel      codelist      prefLabel
## -----
## 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   _ALL_
## code:ethnic   code:sex-M             code:sex      M
## code:ethnic   code:sex-M             code:sex      M
```

## code:ethnic	code:ethnic-HISPANIC_OR_LATINO	code:ethnic	HISPANIC OR LATINO
## code:ethnic	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:ethnic	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:ethnic	code:ethnic-NOT_HISPANIC_OR_LATINO	code:ethnic	NOT HISPANIC OR LATINO
## 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	q1
## code:ethnic	code:trt01a-Xanomeline_High_Dose	code:trt01a	Xanomeline High Dose
## code:ethnic	code:agegr1-_ALL_	code:agegr1	_ALL_
## code:ethnic	code:agegr1-_ALL_	code:agegr1	_ALL_
## code:ethnic	code:sex-UN	code:sex	UN
## code:ethnic	code:sex-UN	code:sex	UN
## code:ethnic	code:sex-_ALL_	code:sex	_ALL_
## code:ethnic	code:race-ASIAN	code:race	ASIAN
## 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	n
## code:ethnic	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:ethnic	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:ethnic	code:trt01a-Placebo	code:trt01a	Placebo
## code:ethnic	code:factor-weighttbl	code:factor	weighttbl
## code:ethnic	code:trt01a-Xanomeline_Low_Dose	code:trt01a	Xanomeline Low Dose
## code:ethnic	code:factor-_ALL_	code:factor	_ALL_
## code:ethnic	code:procedure-percent	code:procedure	percent
## code:ethnic	code:agegr1-65-80	code:agegr1	65-80
## code:ethnic	code:procedure-min	code:procedure	min
## 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 AFRICAN AMERICAN
## code:ethnic	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFRICAN AMERICAN
## code:ethnic	code:factor-_NONMISS_	code:factor	_NONMISS_
## code:ethnic	code:sex-U	code:sex	U
## code:ethnic	code:sex-U	code:sex	U
## 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
## code:agegr1	code:sex-F	code:sex	F
## code:agegr1	code:agegr1-_65	code:agegr1	<65
## 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:agegr1	code:sex-M	code:sex	M
## code:agegr1	code:sex-M	code:sex	M
## code:agegr1	code:ethnic-HISPANIC_OR_LATINO	code:ethnic	HISPANIC OR I
## 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:agegr1	code:ethnic-NOT_HISPANIC_OR_LATINO	code:ethnic	NOT HISPANIC
## code:agegr1	code:procedure-median	code:procedure	median
## code:agegr1	code:ethnic-_NONMISS_	code:ethnic	_NONMISS_
## code:agegr1	code:ethnic-_NONMISS_	code:ethnic	_NONMISS_
## code:agegr1	code:procedure-q1	code:procedure	q1
## code:agegr1	code:trt01a-Xanomeline_High_Dose	code:trt01a	Xanomeline H
## code:agegr1	code:agegr1-_ALL_	code:agegr1	_ALL_
## code:agegr1	code:agegr1-_ALL_	code:agegr1	_ALL_
## code:agegr1	code:sex-UN	code:sex	UN
## code:agegr1	code:sex-UN	code:sex	UN
## code:agegr1	code:sex-_ALL_	code:sex	_ALL_
## code:agegr1	code:race-ASIAN	code:race	ASIAN
## code:agegr1	code:race-ASIAN	code:race	ASIAN
## code:agegr1	code:race-WHITE	code:race	WHITE
## code:agegr1	code:race-WHITE	code:race	WHITE
## code:agegr1	code:trt01a-_NONMISS_	code:trt01a	_NONMISS_
## code:agegr1	code:sex-_NONMISS_	code:sex	_NONMISS_
## code:agegr1	code:factor-age	code:factor	age
## code:agegr1	code:ethnic-_ALL_	code:ethnic	_ALL_
## code:agegr1	code:ethnic-_ALL_	code:ethnic	_ALL_
## code:agegr1	code:procedure-n	code:procedure	n
## code:agegr1	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN IND
## 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-weighttbl	code:factor	weighttbl
## code:agegr1	code:trt01a-Xanomeline_Low_Dose	code:trt01a	Xanomeline L
## code:agegr1	code:factor-_ALL_	code:factor	_ALL_
## code:agegr1	code:procedure-percent	code:procedure	percent
## code:agegr1	code:agegr1-65-80	code:agegr1	65-80
## code:agegr1	code:procedure-min	code:procedure	min
## code:agegr1	code:race-_NONMISS_	code:race	_NONMISS_
## code:agegr1	code:agegr1-_NONMISS_	code:agegr1	_NONMISS_
## code:agegr1	code:agegr1-_NONMISS_	code:agegr1	_NONMISS_
## 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:agegr1	code:factor-_NONMISS_	code:factor	_NONMISS_
## code:agegr1	code:sex-U	code:sex	U
## code:agegr1	code:sex-U	code:sex	U
## 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
## code:procedure	code:sex-F	code:sex	F
## 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-mean	code:procedure	mean
## code:procedure	code:trt01a-_ALL_	code:trt01a	_ALL_
## code:procedure	code:sex-M	code:sex	M
## code:procedure	code:sex-M	code:sex	M
## code:procedure	code:ethnic-HISPANIC_OR_LATINO	code:ethnic	HISPANIC OR LATINO
## code:procedure	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:procedure	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:procedure	code:ethnic-NOT_HISPANIC_OR_LATINO	code:ethnic	NOT HISPANIC OR LATINO
## code:procedure	code:procedure-median	code:procedure	median
## code:procedure	code:ethnic-_NONMISS_	code:ethnic	_NONMISS_
## code:procedure	code:ethnic-_NONMISS_	code:ethnic	_NONMISS_
## code:procedure	code:procedure-q1	code:procedure	q1
## code:procedure	code:trt01a-Xanomeline_High_Dose	code:trt01a	Xanomeline High Dose
## 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:procedure	code:sex-UN	code:sex	UN
## 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:procedure	code:race-WHITE	code:race	WHITE
## code:procedure	code:race-WHITE	code:race	WHITE
## code:procedure	code:trt01a-_NONMISS_	code:trt01a	_NONMISS_
## code:procedure	code:sex-_NONMISS_	code:sex	_NONMISS_
## code:procedure	code:factor-age	code:factor	age
## code:procedure	code:ethnic-_ALL_	code:ethnic	_ALL_
## code:procedure	code:ethnic-_ALL_	code:ethnic	_ALL_
## code:procedure	code:procedure-n	code:procedure	n
## code:procedure	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:procedure	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:procedure	code:trt01a-Placebo	code:trt01a	Placebo
## code:procedure	code:factor-weighttbl	code:factor	weighttbl
## code:procedure	code:trt01a-Xanomeline_Low_Dose	code:trt01a	Xanomeline Low Dose
## 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	min
## 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:procedure	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFRICAN AMERICAN
## code:procedure	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFRICAN AMERICAN
## code:procedure	code:factor-_NONMISS_	code:factor	_NONMISS_
## code:procedure	code:sex-U	code:sex	U
## code:procedure	code:sex-U	code:sex	U
## 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	code:factor-proportion	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:factor	code:sex-M	code:sex	M
## code:factor	code:sex-M	code:sex	M
## code:factor	code:ethnic-HISPANIC_OR_LATINO	code:ethnic	HISPANIC OR LATINO
## code:factor	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:factor	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:factor	code:ethnic-NOT_HISPANIC_OR_LATINO	code:ethnic	NOT HISPANIC OR LATINO
## code:factor	code:procedure-median	code:procedure	median
## code:factor	code:ethnic-_NONMISS_	code:ethnic	_NONMISS_
## 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 High Dose
## code:factor	code:agegr1-_ALL_	code:agegr1	_ALL_
## code:factor	code:agegr1-_ALL_	code:agegr1	_ALL_
## code:factor	code:sex-UN	code:sex	UN
## code:factor	code:sex-UN	code:sex	UN
## code:factor	code:sex-_ALL_	code:sex	_ALL_
## code:factor	code:race-ASIAN	code:race	ASIAN
## 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:factor	code:ethnic-_ALL_	code:ethnic	_ALL_
## code:factor	code:procedure-n	code:procedure	n
## code:factor	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:factor	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:factor	code:trt01a-Placebo	code:trt01a	Placebo
## code:factor	code:factor-weighttbl	code:factor	weighttbl
## code:factor	code:trt01a-Xanomeline_Low_Dose	code:trt01a	Xanomeline Low Dose
## code:factor	code:factor-_ALL_	code:factor	_ALL_
## code:factor	code:procedure-percent	code:procedure	percent
## code:factor	code:agegr1-65-80	code:agegr1	65-80
## 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	code:race	BLACK OR AFRICAN AMERICAN
## code:factor	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFRICAN AMERICAN
## code:factor	code:factor-_NONMISS_	code:factor	_NONMISS_
## code:factor	code:sex-U	code:sex	U
## code:factor	code:sex-U	code:sex	U
## 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
## code:trt01a	code:sex-F	code:sex	F
## code:trt01a	code:sex-F	code:sex	F

## code:trt01a	code:agegr1-_65	code:agegr1	<65
## code:trt01a	code:factor-proportion	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	M
## code:trt01a	code:sex-M	code:sex	M
## code:trt01a	code:ethnic-HISPANIC_OR_LATINO	code:ethnic	HISPANIC OR LATINO
## code:trt01a	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:trt01a	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:trt01a	code:ethnic-NOT_HISPANIC_OR_LATINO	code:ethnic	NOT HISPANIC OR LATINO
## 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	code:trt01a	Xanomeline High Dose
## 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	UN
## 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:trt01a	code:sex-_NONMISS_	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	_ALL_
## code:trt01a	code:procedure-n	code:procedure	n
## code:trt01a	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:trt01a	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:trt01a	code:trt01a-Placebo	code:trt01a	Placebo
## code:trt01a	code:factor-weighttbl	code:factor	weighttbl
## code:trt01a	code:trt01a-Xanomeline_Low_Dose	code:trt01a	Xanomeline Low Dose
## 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	_NONMISS_
## code:trt01a	code:agegr1-_NONMISS_	code:agegr1	_NONMISS_
## code:trt01a	code:agegr1-_NONMISS_	code:agegr1	_NONMISS_
## code:trt01a	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFRICAN AMERICAN
## code:trt01a	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFRICAN AMERICAN
## code:trt01a	code:factor-_NONMISS_	code:factor	_NONMISS_
## code:trt01a	code:sex-U	code:sex	U
## code:trt01a	code:sex-U	code:sex	U
## 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	code:sex-F	code:sex	F
## code:sex	code:agegr1-_65	code:agegr1	<65
## code:sex	code:factor-proportion	code:factor	proportion
## code:sex	code:agegr1-_80	code:agegr1	>80
## code:sex	code:race-_ALL_	code:race	_ALL_
## code:sex	code:procedure-mean	code:procedure	mean
## code:sex	code:trt01a-_ALL_	code:trt01a	_ALL_
## code:sex	code:sex-M	code:sex	M
## code:sex	code:sex-M	code:sex	M
## code:sex	code:ethnic-HISPANIC_OR_LATINO	code:ethnic	HISPANIC OR LATINO
## code:sex	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:sex	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:sex	code:ethnic-NOT_HISPANIC_OR_LATINO	code:ethnic	NOT HISPANIC OR LATINO
## code:sex	code:procedure-median	code:procedure	median
## code:sex	code:ethnic-_NONMISS_	code:ethnic	_NONMISS_
## code:sex	code:ethnic-_NONMISS_	code:ethnic	_NONMISS_
## code:sex	code:procedure-q1	code:procedure	q1
## code:sex	code:trt01a-Xanomeline_High_Dose	code:trt01a	Xanomeline High Dose
## 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	code:sex-UN	code:sex	UN
## 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	code:race	WHITE
## code:sex	code:race-WHITE	code:race	WHITE
## code:sex	code:trt01a-_NONMISS_	code:trt01a	_NONMISS_
## code:sex	code:sex-_NONMISS_	code:sex	_NONMISS_
## code:sex	code:factor-age	code:factor	age
## code:sex	code:ethnic-_ALL_	code:ethnic	_ALL_
## code:sex	code:ethnic-_ALL_	code:ethnic	_ALL_
## code:sex	code:procedure-n	code:procedure	n
## code:sex	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:sex	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:sex	code:trt01a-Placebo	code:trt01a	Placebo
## code:sex	code:factor-weighttbl	code:factor	weighttbl
## code:sex	code:trt01a-Xanomeline_Low_Dose	code:trt01a	Xanomeline Low Dose
## code:sex	code:factor-_ALL_	code:factor	_ALL_
## code:sex	code:procedure-percent	code:procedure	percent
## code:sex	code:agegr1-65-80	code:agegr1	65-80
## code:sex	code:procedure-min	code:procedure	min
## code:sex	code:race-_NONMISS_	code:race	_NONMISS_
## code:sex	code:agegr1-_NONMISS_	code:agegr1	_NONMISS_
## code:sex	code:agegr1-_NONMISS_	code:agegr1	_NONMISS_
## code:sex	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFRICAN AMERICAN
## code:sex	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFRICAN AMERICAN
## code:sex	code:factor-_NONMISS_	code:factor	_NONMISS_
## code:sex	code:sex-U	code:sex	U
## code:sex	code:sex-U	code:sex	U
## code:sex	code:procedure-count	code:procedure	count
## 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:race	code:procedure-q3	code:procedure	q3
## code:race	code:sex-F	code:sex	F
## code:race	code:sex-F	code:sex	F
## 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:race	code:sex-M	code:sex	M
## code:race	code:sex-M	code:sex	M
## code:race	code:ethnic-HISPANIC_OR_LATINO	code:ethnic	HISPANIC OR LATINO
## code:race	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:race	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:race	code:ethnic-NOT_HISPANIC_OR_LATINO	code:ethnic	NOT HISPANIC OR LATINO
## 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	code:trt01a-Xanomeline_High_Dose	code:trt01a	Xanomeline High Dose
## code:race	code:agegr1-_ALL_	code:agegr1	_ALL_
## code:race	code:agegr1-_ALL_	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	code:race-ASIAN	code:race	ASIAN
## code:race	code:race-ASIAN	code:race	ASIAN
## code:race	code:race-WHITE	code:race	WHITE
## code:race	code:race-WHITE	code:race	WHITE
## code:race	code:trt01a-_NONMISS_	code:trt01a	_NONMISS_
## code:race	code:sex-_NONMISS_	code:sex	_NONMISS_
## 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	n
## code:race	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:race	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## code:race	code:trt01a-Placebo	code:trt01a	Placebo
## code:race	code:factor-weightbl	code:factor	weightbl
## code:race	code:trt01a-Xanomeline_Low_Dose	code:trt01a	Xanomeline Low Dose
## code:race	code:factor-_ALL_	code:factor	_ALL_
## code:race	code:procedure-percent	code:procedure	percent
## code:race	code:agegr1-65-80	code:agegr1	65-80
## code:race	code:procedure-min	code:procedure	min
## code:race	code:race-_NONMISS_	code:race	_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	code:race	BLACK OR AFRICAN AMERICAN
## code:race	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFRICAN AMERICAN
## code:race	code:factor-_NONMISS_	code:factor	_NONMISS_
## code:race	code:sex-U	code:sex	U
## code:race	code:sex-U	code:sex	U
## code:race	code:procedure-count	code:procedure	count

```

## code:race          code:procedure-std          code:procedure  std
## File /home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEM0dimensions.r
## [1] 7
##
##
## p
## -----
## crnd-dimension:ethnic
## crnd-dimension:race
## crnd-dimension:procedure
## crnd-dimension:agegr1
## crnd-dimension:factor
## crnd-dimension:trt01a
## crnd-dimension:sex
## File /home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEM0factor-codel
## [1] 53
##
##
## s          p          o
## -----
## code:factor-weightbl      skos:topConceptOf      code:factor
## code:factor-weightbl      skos:prefLabel         weightbl
## code:factor-weightbl      skos:inScheme          code:factor
## code:factor-weightbl      rrdfqbcrnd0:R-selectionvalue weightbl
## code:factor-weightbl      rrdfqbcrnd0:R-selectionoperator ==
## code:factor-weightbl      rrdfqbcrnd0:DataSetRefD2RQ rrdfqbcrnd0:ADSL_WEIGHTBL
## code:factor-weightbl      rdfs:comment           Coded values from data source. No reconcili
## code:factor-weightbl      rdf:type               skos:Concept
## code:factor-weightbl      rdf:type               code:Factor
## code:factor-age           skos:topConceptOf      code:factor
## code:factor-age           skos:prefLabel         age
## code:factor-age           skos:inScheme          code:factor
## code:factor-age           rrdfqbcrnd0:R-selectionvalue age
## code:factor-age           rrdfqbcrnd0:R-selectionoperator ==
## code:factor-age           rrdfqbcrnd0:DataSetRefD2RQ rrdfqbcrnd0:ADSL_AGE
## code:factor-age           rdfs:comment           Coded values from data source. No reconcili
## 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         _ALL_
## code:factor-_ALL_         skos:inScheme          code:factor
## code:factor-_ALL_         rdfs:comment           NON-CDISC: Represents all codelist categor
## 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 reconcili
## 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_

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## 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 code
## 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
## code:factor-proportion      rrdfqbcrnd0:R-selectionoperator      ==
## code:factor-proportion      rdfs:comment      Coded values from data source. No reconciliation
## 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_      rdf:type      rdfs:Resource
## code:factor-age      rdf:type      rdfs:Resource
## code:factor-weightbl      rdf:type      rdfs:Resource
## File /home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOfactor.rq
## [1] 6
##
##
## factor      prefLabel      DataSetRefD2RQ      Rselectionvalue
## -----
## code:factor-_ALL_      _ALL_      NA      NA
## code:factor-proportion      proportion      NA      proportion
## code:factor-weightbl      weightbl      rrdfqbcrnd0:ADSL_WEIGHTBL      weightbl
## code:factor-_NONMISS_      _NONMISS_      NA      NA
## code:factor-quantity      quantity      NA      quantity
## code:factor-age      age      rrdfqbcrnd0:ADSL_AGE      age
## File /home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations.rq
## [1] 0
## File /home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations.rq
## [1] 3
##
##
## obs      rrdfqbcrnd0Rcolumnname      Rselectionoperator      Rselectionvalue
## -----
## ds:obs027      trt01a      ==      Xanomeline High Dose
## ds:obs056      trt01a      ==      Xanomeline Low Dose
## ds:obs056      agegr1      ==      65-80
## File /home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations.rq
## [1] 588
##
##
## s      ethnic      race      proced
## -----
## ds:obs103      code:ethnic-_ALL_      code:race-_ALL_      code:p
## ds:obs103      code:ethnic-_ALL_      code:race-_ALL_      code:p
## ds:obs103      code:ethnic-_ALL_      code:race-_ALL_      code:p
## 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

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12

[illegible]

14

15

[illegible]



17

18

[illegible]

[illegible]

[illegible]

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## ds:obs034 code:ethnic-_ALL_ code:race-_ALL_ code:p
## ds:obs034 code:ethnic-_ALL_ code:race-_ALL_ code:p
## ds:obs034 code:ethnic-_ALL_ code:race-_ALL_ code:p
## ds:obs034 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
## ds:obs039 code:ethnic-_ALL_ code:race-_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:ethnic-_ALL_ code:race-_NONMISS_ code:p
## ds:obs069 code:ethnic-_ALL_ code:race-_NONMISS_ code:p
## ds:obs004 code:ethnic-_ALL_ code:race-_ALL_ code:p
## ds:obs004 code:ethnic-_ALL_ code:race-_ALL_ code:p
## 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
## ds:obs079 code:ethnic-_ALL_ code:race-BLACK_OR_AFRICAN_AMERICAN code:p
## ds:obs079 code:ethnic-_ALL_ code:race-BLACK_OR_AFRICAN_AMERICAN code:p
## ds:obs079 code:ethnic-_ALL_ code:race-BLACK_OR_AFRICAN_AMERICAN code:p
## ds:obs079 code:ethnic-_ALL_ code:race-BLACK_OR_AFRICAN_AMERICAN code:p
## ds:obs079 code:ethnic-_ALL_ code:race-BLACK_OR_AFRICAN_AMERICAN code:p
## ds:obs079 code:ethnic-_ALL_ code:race-BLACK_OR_AFRICAN_AMERICAN 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
## ds:obs109 code:ethnic-_ALL_ code:race-_ALL_ code:p
## ds:obs068 code:ethnic-_ALL_ code:race-_NONMISS_ code:p
## ds:obs068 code:ethnic-_ALL_ code:race-_NONMISS_ code:p
## ds:obs068 code:ethnic-_ALL_ code:race-_NONMISS_ code:p
## ds:obs068 code:ethnic-_ALL_ code:race-_NONMISS_ 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
## ds:obs032 code:ethnic-_ALL_ code:race-_ALL_ 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
## ds:obs114 code:ethnic-_ALL_ 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/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOprocedure-co
## [1] 100
##
##
## s p o
## -----
## 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-std	skos:topConceptOf	code:procedure
## code:procedure-std	skos:prefLabel	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	std
## code:procedure-std	rrdfqbcrnd0:R-selectionoperator	==
## code:procedure-std	rdfs:comment	Descriptive statistics std
## code:procedure-std	rdf:type	skos:Concept
## code:procedure-std	rdf:type	code:Procedure
## code:procedure-q3	skos:topConceptOf	code:procedure
## code:procedure-q3	skos:prefLabel	q3
## code:procedure-q3	skos:inScheme	code:procedure
## code:procedure-q3	rrdfqbcrnd0:RdescStatDefFun	function (x) { quantile(x, probs = c
## code:procedure-q3	rrdfqbcrnd0:R-selectionvalue	q3
## 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 = TRUE)
## code:procedure-median	rrdfqbcrnd0:R-selectionvalue	median
## code:procedure-median	rrdfqbcrnd0:R-selectionoperator	==
## code:procedure-median	rdfs:comment	Descriptive statistics median
## code:procedure-median	rdf:type	skos:Concept
## code:procedure-median	rdf:type	code:Procedure
## code:procedure-count	skos:topConceptOf	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
## code:procedure-max	rrdfqbcrnd0:RdescStatDefFun	function (x) { max(x, na.rm = TRUE) }
## code:procedure-max	rrdfqbcrnd0:R-selectionvalue	max
## code:procedure-max	rrdfqbcrnd0:R-selectionoperator	==
## code:procedure-max	rdfs:comment	Descriptive statistics max
## code:procedure-max	rdf:type	skos:Concept
## 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
## code:procedure-mean	rrdfqbcrnd0:RdescStatDefFun	function (x) { mean(x, na.rm = TRUE)
## code:procedure-mean	rrdfqbcrnd0:R-selectionvalue	mean
## code:procedure-mean	rrdfqbcrnd0:R-selectionoperator	==

## code:procedure-mean	rdfs:comment	Descriptive statistics mean
## code:procedure-mean	rdf:type	skos:Concept
## code:procedure-mean	rdf:type	code:Procedure
## code:procedure-q1	skos:topConceptOf	code:procedure
## code:procedure-q1	skos:prefLabel	q1
## code:procedure-q1	skos:inScheme	code:procedure
## code:procedure-q1	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	rdf:type	code:Procedure
## code:procedure-n	skos:topConceptOf	code:procedure
## code:procedure-n	skos:prefLabel	n
## code:procedure-n	skos:inScheme	code:procedure
## code:procedure-n	rrdfqbcrnd0:RdescStatDefFun	function (x) { length(x[!is.na(x)])
## code:procedure-n	rrdfqbcrnd0:R-selectionvalue	n
## code:procedure-n	rrdfqbcrnd0:R-selectionoperator	==
## 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
## code:procedure-percent	skos:inScheme	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	rdf:type	code:Procedure
## code:procedure-q3	rdf:type	rdfs:Resource
## 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/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOprocedure-mean		
## [1] 10		
##		
##		
## s	p	o
## -----	-----	-----
## 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	median
## code:procedure-median	rrdfqbcrnd0:R-selectionoperator	==
## code:procedure-median	rdfs:comment	Descriptive statistics median
## code:procedure-median	rdf:type	skos:Concept



```

## code:procedure-median   rdf:type               code:Procedure
## code:procedure-median   rdf:type               rdfs:Resource
## File /home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOprocedure.rq
## [1] 10
##
##
## procedure               prefLabel  functiondef
## -----
## code:procedure-max      max        function (x) {    max(x, na.rm = TRUE) }
## code:procedure-std      std        function (x) {    sd(x, na.rm = TRUE) }
## code:procedure-mean     mean     function (x) {    mean(x, na.rm = TRUE) }
## code:procedure-min      min        function (x) {    min(x, na.rm = TRUE) }
## code:procedure-percent  percent  function (x) {    -1 }
## code:procedure-count    count    function (x) {    length(x) }
## code:procedure-q3       q3         function (x) {    quantile(x, probs = c(0.75), na.rm = TRUE) }
## code:procedure-n        n         function (x) {    length(x[!is.na(x)]) }
## code:procedure-median   median   function (x) {    median(x, na.rm = TRUE) }
## code:procedure-q1       q1         function (x) {    quantile(x, probs = c(0.25), na.rm = TRUE) }

```

This works do not change

```

dsdName<- GetDsdNameFromCube( store )
domainName<- GetDomainNameFromCube( store )
cat("dsdName ", dsdName, ", domainName ", domainName, "\n" )

```

```

## dsdName   dsd-DEMO , domainName   DEMO

```

```

forsparqlprefix<- GetForSparqlPrefix( domainName )
cat(forsparqlprefix, "\n")

```

```

## 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/ns/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.cd-disc.org/mms#>
## prefix cts: <http://rdf.cd-disc.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 dccc: <http://www.example.org/dc/demo/dccc/>
## 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#>
##

```

```

rq<- paste( forsparqlprefix,
,
select *
where {
?s a qb:Observation ;
?p ?o ;
.
[] qb:dimension ?p .
values (?s) {
(ds:obs114)
}
}
# limit 30
,
"\n"
)

cube.observations<- sparql.rdf(store, rq)
knitr::kable(cube.observations)

```

s	p	o
ds:obs114	crnd-dimension:factor	code:factor-weightbl
ds:obs114	crnd-dimension:trt01a	code:trt01a-Xanomeline_High_Dose
ds:obs114	crnd-dimension:sex	code:sex- <i>ALL</i>
ds:obs114	crnd-dimension:ethnic	code:ethnic- <i>ALL</i>
ds:obs114	crnd-dimension:procedure	code:procedure-min
ds:obs114	crnd-dimension:race	code:race- <i>ALL</i>
ds:obs114	crnd-dimension:agegr1	code:agegr1- <i>ALL</i>

## 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 )
values (?s) {
(ds:obs114)
}
}
,
"\n"
)

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

```

```
## [1] "/tmp/RtmpfTyI8g/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

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

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

dimnames(res)

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

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

## Check the statistics

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

```
stmtSQL<- GetSQLFromCube(store)
cat(stmtSQL$summStatSQL)
```