

# 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")
```

```
## 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/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DC-DEMO-sample
```

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

summarize.rdf(store)
```

```
## [1] "Number of triples: 3385"
```

## Execute the DEMO\* SPARQL queries

```
rqFiles<- system.file("extdata/sample-rdf", list.files(system.file("extdata/sample-rdf", package="rrdfqbcrnd0")))

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/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	## 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 I
## code:ethnic	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAI
## 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	q1
## 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	_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 IND
## code:ethnic	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN IND
## 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 L
## 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 AFR.
## code:ethnic	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFR.
## 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 LATINO
## code:agegr1	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:agegr1	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
## code:agegr1	code:ethnic-NOT_HISPANIC_OR_LATINO	code:ethnic	NOT HISPANIC OR LATINO
## 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 High Dose
## 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 INDIAN OR ALASKA NATIVE
## code:agegr1	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN INDIAN OR ALASKA NATIVE
## 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 Low Dose
## 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 AFRICAN AMERICAN
## code:agegr1	code:race-BLACK_OR_AFRICAN_AMERICAN	code:race	BLACK OR AFRICAN AMERICAN
## 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 I
## code:procedure	code:race-NATIVE_HAWAIIAN_OR_OTHER_PACIFIC_ISLANDER	code:race	NATIVE HAWAI
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## code:procedure	code:trt01a-Xanomeline_High_Dose	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: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
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## 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 IND
## code:procedure	code:race-AMERICAN_INDIAN_OR_ALASKA_NATIVE	code:race	AMERICAN IND
## code:procedure	code:trt01a-Placebo	code:trt01a	Placebo
## code:procedure	code:factor-weightbl	code:factor	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	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 AFR.
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## 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-weightbl	code:factor	weightbl
## 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/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEM0dimensions.rq
## [1] 7
##
##
## p
## -----
## crnd-dimension:ethnic
## crnd-dimension:race
## crnd-dimension:procedure
## crnd-dimension:agegr1
## crnd-dimension:factor
## crnd-dimension:trt01a
## crnd-dimension:sex
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEM0factor-codelist.rq
## [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-weightbl      skos:topConceptOf      code:factor
## code:factor-weightbl      skos:prefLabel          age
## code:factor-weightbl      skos:inScheme           code:factor
## code:factor-weightbl      rrdfqbcrnd0:R-selectionvalue age
## code:factor-weightbl      rrdfqbcrnd0:R-selectionoperator ==
## code:factor-weightbl      rrdfqbcrnd0:DataSetRefD2RQ rrdfqbcrnd0:ADSL_AGE
## 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-weightbl      skos:topConceptOf      code:factor
## code:factor-weightbl      skos:prefLabel          _ALL_
## code:factor-weightbl      skos:inScheme           code:factor
## code:factor-weightbl      rdfs:comment            NON-CDISC: Represents all codelist categor
## code:factor-weightbl      rdf:type                skos:Concept
## code:factor-weightbl      rdf:type                code:Factor
## code:factor-weightbl      skos:topConceptOf      code:factor
## code:factor-weightbl      skos:prefLabel          quantity
## code:factor-weightbl      skos:inScheme           code:factor
## code:factor-weightbl      rrdfqbcrnd0:R-selectionvalue quantity
## code:factor-weightbl      rrdfqbcrnd0:R-selectionoperator ==
## 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-_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 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/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/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      F
## 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
## [1] 0
## File /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations-R-selection
## [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/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOobservations.rq
## [1] 588

```

[illegible]

[illegible]

14

[illegible]

[illegible]



17

[illegible]

19

20

[illegible]

[illegible]

##	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(0.25, 0.75)) }
## 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-mean     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-q1       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-n        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/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-rdf/DEMOprocedure-median.rq
## [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               rrdqbcrnd0:RdescStatDefFun      function (x) {      median(x, na.rm = TRUE)
## code:procedure-median               rrdqbcrnd0:R-selectionvalue     median
## code:procedure-median               rrdqbcrnd0: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/rrdqbcrnd0/rrdqbcrndex/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.cdisc.org/ct/schema#>
## prefix qb: <http://purl.org/linked-data/cube#>
## prefix rrdqbcrnd0: <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/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

```

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[,3:4])),
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)

```