Create DM table as csv file

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Introduction

This is a somewhat convoluted script. The idea is to take an existing cube structure and derive the results. That was usefull initially to extend a cube. Now, it is not as usefull. So the script may seem pointless. TODO(mja): fix it.

Create DM sample table as CSV file and other files

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

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

Loading rrdfqbcrndex

Get the data and prepare for derivation of summary statistics

```
library(foreign)
library(sqldf)

fnadsl<- system.file("extdata/sample-xpt", "adsl.xpt", package="rrdfqbcrndex")
print(fnadsl)</pre>
```

[1] "/home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-xpt/adsl.xpt"

```
if (!file.exists(fnadsl)) {
    fnadsl<- file.path("..", "extdata/sample-xpt", "adsl.xpt")
    }
if (!file.exists(fnadsl)) {
    stop("File does not exist - ",fnadsl)
}
adsl<- read.xport(fnadsl)
adsl$TRT01A<- as.character(adsl$TRT01A)
adsl$RACE<- as.character(adsl$RACE)
adsl$SAFFL<- as.character(adsl$SAFFL)
adsl$SEX<- as.character(adsl$SEX)

## SASxport package maps characters and dates etc into more R like data type
## install.packages("SASxport")
## library(SASxport)
## adsl<- as.data.frame(read.xport(fnadsl,as.is=TRUE))
## str(adsl)</pre>
```

Create frame for cube from an existing RDF data cube

The code input a turtle file with an RDF data cube. SQL statements for calculating the measurements are derived from the cube, and used to derive the summary statistics. Note: the SQL statements does not show records where the combination of values lead to 0 observations. This is handled below, in a not so clever way. A better approach would be to include the concept of a skeleton in the SQL statements.

ToDo(MJA): move this to rrdfqbcrndcheck or move to another package, like rrdfqcbcrnd0

```
library(rrdfqbcrndcheck)

dataCubeFile<- system.file("extdata/sample-rdf", "DC-DM-sample.ttl", package="rrdfqbcrndex")
checkCube <- new.rdf(ontology=FALSE)  # Initialize
load.rdf(dataCubeFile, format="TURTLE", appendTo= checkCube)
summarize.rdf(checkCube)

stmtSQL<- GetSQLFromCube(checkCube)

cat(stmtSQL$summStatSQL)

adsl.summ.stat.res<- sqldf( stmtSQL$summStatSQL)
names(adsl.summ.stat.res)<- tolower(gsub("(a|b)\\.","", names(adsl.summ.stat.res)))</pre>
```

Store the SQL statements to a file

```
res.text<- stmtSQL$summStatSQL

cr.text<- pasteO("create table qbframe ", "(", paste(names(stmtSQL$qbframe), "TEXT", collapse=", "),
in.text<- pasteO(
   paste(
   pasteO("insert into qbframe ", "(", pasteO(names(stmtSQL$qbframe),collapse=","), ")\n" ),
   "values\n",</pre>
```

```
paste0( "(", apply(stmtSQL$qbframe,1,function(x) {paste0('"',x,'"', collapse=",")}), ")", collapse="
collapse="\n"
    ),";\n")

se.text<- "select * from qbframe;"

tempfile<- file.path(tempdir(),"temp-code.R")
cat(paste('res.text<- "', res.text,'"\n',collapse="\n"), file=tempfile)
cat(paste("cr.text<- '", cr.text,"'\n",collapse="\n"), file=tempfile,append=TRUE)
cat(paste("in.text<- '", in.text,"'\n",collapse="\n"), file=tempfile,append=TRUE)
cat(paste("se.text<- '", se.text,"'\n",collapse="\n"), file=tempfile,append=TRUE)
print(tempfile)</pre>
```

Define SQL statements directly

The statements below are inserted from the file generated above.

Work-around: add SELECT statments below corresponding to the desired statistics. Update the .csv file, and re-create the cube. Repeat until done. This is of course not the ideal way; waiting to the formular interface to the cube.

```
res.text<- "
SELECT a.TRT01A, 'ALL' as RACE, a.SEX, a.SAFFL, 'count' as procedure, 'quantity' as factor, 'ALL' a
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'mean' as procedure, 'WEIGHTBL' as factor, '
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'max' as procedure, 'WEIGHTBL' as factor, '_
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'max' as procedure, 'AGE' as factor, '_NULL_
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'median' as procedure, 'WEIGHTBL' as factor,
SELECT a.TRT01A, a.RACE, '_ALL_' as SEX, a.SAFFL, 'count' as procedure, 'quantity' as factor, '_ALL_' a
SELECT a.TRT01A, b.RACE, '_ALL_' as SEX, a.SAFFL, 'percent' as procedure, 'proportion' as factor, 'RACE
UNION
SELECT a.TRT01A, 'ALL' as RACE, 'ALL' as SEX, a.SAFFL, 'stdev' as procedure, 'AGE' as factor, 'NUL
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'min' as procedure, 'AGE' as factor, '_NULL_
SELECT a.TRT01A, '_ALL_' as RACE, b.SEX, a.SAFFL, 'percent' as procedure, 'proportion' as factor, 'SEX'
UNION
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'min' as procedure, 'WEIGHTBL' as factor, '_
SELECT '_ALL_' as TRT01A, a.RACE, '_ALL_' as SEX, a.SAFFL, 'count' as procedure, 'quantity' as factor,
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'mean' as procedure, 'AGE' as factor, '_NULL
SELECT '_ALL_' as TRT01A, '_ALL_' as RACE, a.SEX, a.SAFFL, 'count' as procedure, 'quantity' as factor,
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'median' as procedure, 'AGE' as factor, '_NU
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'count' as procedure, 'quantity' as factor,
```

```
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'stdev' as procedure, 'WEIGHTBL' as factor,
create table qbframe (trt01a TEXT, race TEXT, factor TEXT, procedure TEXT, sex TEXT, saffl TEXT, unit T
in.text<- '
insert into qbframe (trt01a,race,factor,procedure,sex,saffl,unit,denominator)
("Xanomeline High Dose", "AMERICAN INDIAN OR ALASKA NATIVE", "proportion", "percent", "_ALL_", "Y", "_NULL_",
("Xanomeline Low Dose", "AMERICAN INDIAN OR ALASKA NATIVE", "proportion", "percent", "_ALL_", "Y", "_NULL_", "
("Xanomeline Low Dose", "BLACK OR AFRICAN AMERICAN", "proportion", "percent", "_ALL_", "Y", " NULL_", "RACE"),
("_ALL_","WHITE","quantity","count","_ALL_","Y","_NULL_","_ALL_"),
("Xanomeline Low Dose", "_ALL_", "AGE", "min", "_ALL_", "Y", "YEARS", "_NULL_"),
("Xanomeline Low Dose", "WHITE", "quantity", "count", "_ALL_", "Y", "_NULL_", "_ALL_"),
("Xanomeline High Dose","_ALL_","AGE","max","_ALL_","Y","YEARS","_NULL_"),
("Xanomeline High Dose", "AMERICAN INDIAN OR ALASKA NATIVE", "quantity", "count", "_ALL_", "Y", "_NULL_", "_AL
("Placebo", "BLACK OR AFRICAN AMERICAN", "quantity", "count", "_ALL_", "Y", "_NULL_", "_ALL_"),
("Placebo", "_ALL_", "AGE", "max", "_ALL_", "Y", "YEARS", "_NULL_"),
("Placebo", "AMERICAN INDIAN OR ALASKA NATIVE", "proportion", "percent", "_ALL_", "Y", "_NULL_", "RACE"),
("Placebo", "BLACK OR AFRICAN AMERICAN", "proportion", "percent", "_ALL_", "Y", "_NULL_", "RACE")
("Placebo", "_ALL_", "quantity", "count", "M", "Y", "_NULL_", "_ALL_"),
("Placebo", "_ALL_", "proportion", "percent", "F", "Y", "_NULL_", "SEX"),

("Xanomeline High Dose", "_ALL_", "quantity", "count", "_ALL_", "Y", "_NULL_", "_ALL_"),

("Xanomeline Low Dose", "_ALL_", "quantity", "count", "M", "Y", "_NULL_", "_ALL_"),
("Xanomeline High Dose", "_ALL_", "proportion", "percent", "F", "Y", "_NULL_", "SEX"),
("Xanomeline Low Dose", "_ALL_", "quantity", "count", "F", "Y", "_NULL_", "_ALL_"),
("_ALL_", "BLACK OR AFRICAN AMERICAN", "quantity", "count", "_ALL_", "Y", "_NULL_", "_ALL_"),
("Xanomeline Low Dose", "AMERICAN INDIAN OR ALASKA NATIVE", "quantity", "count", "_ALL_", "Y", "_NULL_", "_ALL
("Xanomeline Low Dose", "BLACK OR AFRICAN AMERICAN", "quantity", "count", "_ALL_", "Y", "_NULL_", "_ALL_"),
("Xanomeline High Dose", "BLACK OR AFRICAN AMERICAN", "proportion", "percent", "_ALL_", "Y", "_NULL_", "RACE")
("Xanomeline High Dose", "WHITE", "proportion", "percent", "_ALL_", "Y", "_NULL_", "RACE"),
("Xanomeline Low Dose", "WHITE", "proportion", "percent", "ALL_", "Y", "NULL_", "RACE"),
("_ALL_","_ALL_","quantity","count","M","Y","_NULL_","_ALL_"),
("Xanomeline High Dose", "_ALL_", "quantity", "count", "M", "Y", "_NULL_", "_ALL_"),
("_ALL_","_ALL_","quantity","count","F","Y","_NULL_","_ALL_"),
("Xanomeline High Dose", "_ALL_", "quantity", "count", "F", "Y", "_NULL_", "_ALL_"),
```

```
("Xanomeline Low Dose", "_ALL_", "proportion", "percent", "F", "Y", "NULL_", "SEX"),

("Xanomeline Low Dose", "_ALL_", "AGE", "mean", "ALL_", "Y", "YEARS", "NULL_", "SEX"),

("Nanomeline High Dose", "ALL_", "proportion", "percent", "M", "Y", "NULL_", "SEX"),

("Placebo", "AMERICAN INDIAN OR ALASKA NATIVE", "quantity", "count", "ALL_", "Y", "NULL_", "ALL_"),

("Xanomeline High Dose", "ALL_", "AGE", "mean", "ALL ", "Y", "YEARS", "NULL_"),

("Xanomeline High Dose", "ALL_", "AGE", "median", "ALL_", "Y", "YEARS", "NULL_"),

("Xanomeline Low Dose", "ALL_", "AGE", "median", "ALL_", "Y", "YEARS", "NULL_"),

("Xanomeline High Dose", "ALL_", "AGE", "median", "ALL_", "Y", "YEARS", "NULL_"),

("ALL_", "AMERICAN INDIAN OR ALASKA NATIVE", "quantity", "count", "ALL_", "Y", "NULL_", "ALL_"),

("Placebo", "ALL_", "quantity", "count", "ALL_", "Y", "NULL_", "RACE"),

("Placebo", "ALL_", "quantity", "count", "ALL_", "Y", "NULL_", "RACE"),

("Placebo", "ALL_", "quantity", "count", "ALL_", "Y", "NULL_", "NULL_"),

("Xanomeline Low Dose", "ALL_", "WEIGHTEL", "MEY, "ALL_", "Y", "KG", "NULL_"),

("Xanomeline High Dose", "ALL_", "WEIGHTEL", "MEY, "ALL_", "Y", "KG", "NULL_"),

("Placebo", "ALL_", "WEIGHTEL", "MEX, "ALL_", "Y", "KG", "NULL_"),

("Placebo", "ALL_", "WEIGHTEL", "mex", "ALL_", "Y", "KG", "NULL_"),

("Placebo", "ALL_", "WEIGHTEL", "mex", "ALL_", "Y", "KG", "NULL_"),

("Placebo", "ALL_", "WEIGHTEL", "mex", "ALL_", "Y", "KG", "NULL_"),

("Xanomeline High Dose", "ALL_", "WEIGHTEL", "median", "ALL_", "Y", "KG", "NULL_"),

("Xanomeline Low Dose", "ALL_", "WEIGHTEL", "median", "ALL_", "Y", "KG", "NULL_"),

("Xanomeline High Dose", "ALL_", "WEIGHTEL", "mex", "ALL_", "Y", "KG", "NULL_"),

("Xanomeline Low Dose", "ALL_", "WEIGHTEL", "mean", "ALL_", "Y", "KG", "NULL_"),

("Xanomeline Low Dose", "ALL_", "WEIGHTEL", "mean", "ALL_", "Y", "KG", "NULL_"),

("Xanomeline High Dose", "ALL_", "WEIGHTEL", "mean", "ALL_", "Y", "KG", "NULL_"),

("Xanomeline High Dose", "ALL_", "WEIGHTEL", "mean", "ALL_", "Y", "KG", "NULL_"),

("Xanomeline Low Dose
```

Evaluate the SQL code

```
adsl.summ.stat.res<- sqldf( res.text )
# adsl.summ.stat$unit<- "_NULL_"
names(adsl.summ.stat.res)<- tolower(gsub("(a|b)\\.","", names(adsl.summ.stat.res)))
rm(qbframe)
sqldf()</pre>
```

<SQLiteConnection>

```
sqldf(cr.text)
```

NULL

```
sqldf(in.text )
```

NULL

```
qbframe<- sqldf(se.text)
sqldf()</pre>
```

NULL

```
# str(qbframe)
```

Combine generated results with the cube frame and write CSV file

```
adsl.summ.stat<- merge(qbframe,adsl.summ.stat.res,by=names(qbframe),all=TRUE)
# adsl.summ.stat<- merge(stmtSQL$qbframe,adsl.summ.stat.res,all=TRUE)
adsl.summ.stat$measure[ is.na(adsl.summ.stat$measure) & adsl.summ.stat$procedure=="count" ]<- 0
adsl.summ.stat
```

##				rt01a					race	factor
	1			_ALL_					_ALL_	
##	2		-	_ALL_					_ALL_	_
##	3				AMERICAN					
##	4		-	_ALL_	BI	LACK O	R AF	RICAN	AMERICAN	
##	5			_ALL_					WHITE	quantity
##	-		Pla	acebo					_ALL_	AGE
##	7		Pla	acebo					_ALL_	AGE
##	8		Pla	acebo					_ALL_	
##	9		Pla	acebo					_ALL_	AGE
##	10		Pla	acebo					_ALL_	AGE
##	11		Pla	acebo					_ALL_	proportion
##	12		Pla	acebo					_ALL_	proportion
##	13		Pla	acebo						quantity
##	14		Pla	acebo					_ALL_	quantity
##	15		Pla	acebo					_ALL_	quantity
##	16		Pla	acebo					_ALL_	WEIGHTBL
##	17		Pla	acebo					_ALL_	WEIGHTBL
##	18		Pla	acebo					_ALL_	WEIGHTBL
##	19		Pla	acebo					_ALL_	WEIGHTBL
##	20		Pla	acebo					_ALL_	WEIGHTBL
##	21									proportion
##	22		Pla	acebo	${\tt AMERICAN}$	INDIA	N OF	R ALASI	KA NATIVE	quantity
##	23		Pla	acebo	BI	LACK O	R AF	FRICAN	AMERICAN	proportion
##	24		Pla	acebo	BI	LACK O	R AF	FRICAN	AMERICAN	quantity
##	25		Pla	acebo					WHITE	proportion
##	26		Pla	acebo					WHITE	quantity
##	27	${\tt Xanomeline}$	High	Dose					_ALL_	AGE
##	28	Xanomeline	High	Dose					_ALL_	AGE
##	29	Xanomeline	High	Dose					_ALL_	AGE
##	30	${\tt Xanomeline}$	High	Dose					_ALL_	AGE
##	31	Xanomeline	High	Dose					_ALL_	AGE
##	32	${\tt Xanomeline}$	High	Dose					_ALL_	proportion
##	33	Xanomeline	High	Dose						proportion
##	34	Xanomeline	High	Dose					_ALL_	quantity

```
_ALL_
## 35 Xanomeline High Dose
                                                                   quantity
## 36 Xanomeline High Dose
                                                          \_\mathtt{ALL}_{\_}
                                                                   quantity
## 37 Xanomeline High Dose
                                                                   WEIGHTBL
                                                          ALL
## 38 Xanomeline High Dose
                                                          _ALL_
                                                                   WEIGHTBL
## 39 Xanomeline High Dose
                                                          _ALL_
                                                                   WEIGHTBL
## 40 Xanomeline High Dose
                                                          ALL
                                                                   WEIGHTBL
## 41 Xanomeline High Dose
                                                          ALL
                                                                   WEIGHTBL
## 42 Xanomeline High Dose AMERICAN INDIAN OR ALASKA NATIVE proportion
## 43 Xanomeline High Dose AMERICAN INDIAN OR ALASKA NATIVE
                                                                   quantity
## 44 Xanomeline High Dose
                                    BLACK OR AFRICAN AMERICAN proportion
## 45 Xanomeline High Dose
                                    BLACK OR AFRICAN AMERICAN
                                                                   quantity
## 46
      Xanomeline High Dose
                                                          WHITE
                                                                proportion
## 47
      Xanomeline High Dose
                                                          WHITE
                                                                   quantity
## 48
       Xanomeline Low Dose
                                                          _{
m ALL}_{
m }
                                                                        AGE
## 49
       Xanomeline Low Dose
                                                                        AGE
                                                          _ALL_
## 50
       Xanomeline Low Dose
                                                          _ALL_
                                                                        AGE
       Xanomeline Low Dose
## 51
                                                                        AGE
                                                          _{
m ALL}_{
m }
       Xanomeline Low Dose
                                                          ALL
                                                                        AGE
## 53
       Xanomeline Low Dose
                                                          _ALL_ proportion
## 54
       Xanomeline Low Dose
                                                          _ALL_ proportion
## 55
       Xanomeline Low Dose
                                                          _ALL_
                                                                   quantity
       Xanomeline Low Dose
                                                          ALL
                                                                   quantity
       Xanomeline Low Dose
## 57
                                                          _ALL_
                                                                   quantity
       Xanomeline Low Dose
                                                          _ALL_
## 58
                                                                   WEIGHTBL
## 59
       Xanomeline Low Dose
                                                          \mathtt{ALL}
                                                                   WEIGHTBL
## 60
       Xanomeline Low Dose
                                                          _ALL_
                                                                   WEIGHTBL
## 61
       Xanomeline Low Dose
                                                                   WEIGHTBL
                                                          _ALL_
                                                          _ALL_
##
   62
       Xanomeline Low Dose
                                                                   WEIGHTBL
## 63
       Xanomeline Low Dose AMERICAN INDIAN OR ALASKA NATIVE proportion
## 64
       Xanomeline Low Dose AMERICAN INDIAN OR ALASKA NATIVE
                                                                   quantity
## 65
       Xanomeline Low Dose
                                    BLACK OR AFRICAN AMERICAN proportion
##
  66
       Xanomeline Low Dose
                                    BLACK OR AFRICAN AMERICAN
                                                                   quantity
       Xanomeline Low Dose
                                                          WHITE proportion
##
   68
       Xanomeline Low Dose
                                                          WHITE
                                                                   quantity
##
      procedure
                                unit denominator
                   sex saffl
                                                     measure
                           Y _NULL_
## 1
                     F
          count
                                            _ALL_ 143.00000
## 2
          count
                     М
                           Y NULL
                                            ALL 111.000000
## 3
                           Y _NULL_
                                            _ALL_
          count _ALL_
                                                    1.000000
## 4
                              NULL
                                            _ALL_
          count _ALL_
                           Y
                                                  23.000000
## 5
          count _ALL_
                           Y _NULL_
                                            _ALL_ 230.00000
## 6
            max ALL
                              YEARS
                                           NULL 89.00000
## 7
           mean ALL
                           Y
                               YEARS
                                           NULL
                                                   75.209302
## 8
         median _ALL_
                           Y
                               YEARS
                                           _NULL_
                                                   76.000000
## 9
                            Y
                              YEARS
                                           _NULL_
            min _ALL_
                                                   52.000000
## 10
          stdev _ALL_
                           Y
                              YEARS
                                           _{
m NULL}_{
m }
                                                    8.590167
                            Y _NULL_
                                              SEX
## 11
        percent
                                                   61.627907
                           Y _NULL_
## 12
        percent
                     Μ
                                              SEX
                                                   38.372093
                            Y _NULL_
## 13
          count _ALL_
                                            \_\mathtt{ALL}\_
                                                   86.000000
## 14
                     F
                            Y _NULL_
                                            _ALL_
                                                   53.000000
          count
## 15
          count
                     М
                            Y
                              _{
m NULL}_{
m }
                                            _{\mathtt{ALL}}
                                                   33.000000
## 16
                           Y
                                  KG
                                           _NULL_
            max _ALL_
                                                   86.200000
## 17
           mean ALL
                           Y
                                  KG
                                           _NULL_
                                                   62.759302
## 18
         median _ALL_
                           Y
                                  KG
                                           _NULL_
                                                   60.550000
## 19
            min _ALL_
                            Y
                                  KG
                                           NULL
                                                   34.000000
```

```
## 20
                                   KG
                                                      12.771544
           stdev _ALL_
                             Y
                                             _{
m NULL}_{
m }
## 21
                             Y _NULL_
                                               RACE
                                                       0.000000
         percent _ALL_
## 22
           count ALL
                             Y NULL
                                              ALL
                                                       0.000000
         percent _ALL_
                             Y _NULL_
## 23
                                              RACE
                                                       9.302326
                                              _ALL_
## 24
           count _ALL_
                             Y
                               NULL
                                                       8.000000
         percent _ALL_
                             Y NULL
## 25
                                              RACE
                                                     90.697674
## 26
           count ALL
                             Y NULL
                                              ALL
                                                      78.000000
## 27
             max _ALL_
                             Y
                                YEARS
                                             _NULL_
                                                      88.000000
## 28
            mean _ALL_
                             Y
                                YEARS
                                             _NULL_
                                                      74.380952
## 29
          median _ALL_
                             Y
                                YEARS
                                             _NULL_
                                                      76.000000
##
   30
                             Y
                                YEARS
                                             _NULL_
                                                      56.000000
             min _ALL_
                             Y
                                YEARS
##
   31
           stdev _ALL_
                                             _{
m NULL}_{
m }
                                                       7.886094
##
   32
         percent
                      F
                             Y
                               _{
m NULL}_{
m }
                                                SEX
                                                     47.619048
## 33
         percent
                      М
                             Y _NULL_
                                                SEX
                                                     52.380952
## 34
                             Y _NULL_
                                                      84.000000
           count _ALL_
                                              _ALL_
## 35
                      F
                             Y
                               _NULL_
                                              _ALL_
                                                      40.000000
           count
## 36
                      М
                               _NULL_
                                                      44.000000
           count
                             Y
                                              \_\mathtt{ALL}\_
## 37
                             Y
                                   KG
                                             NULL 108.000000
             {\tt max} {\tt ALL}
## 38
            mean _ALL_
                             Y
                                             _NULL_
                                                      70.004762
                                   KG
          median \_ALL_{\_}
## 39
                             Y
                                   KG
                                             NULL
                                                      69.200000
## 40
             min _ALL_
                             Y
                                   KG
                                             _NULL_
                                                      41.700000
                             Y
                                   KG
## 41
           stdev _ALL_
                                             NULL
                                                      14.653433
                             Y
## 42
         percent _ALL_
                               _NULL_
                                              RACE
                                                       1.190476
## 43
           count _ALL_
                             Y
                               NULL
                                              _ALL_
                                                       1.000000
## 44
         percent _ALL_
                             Y NULL
                                              RACE
                                                     10.714286
## 45
           count _ALL_
                             Y NULL
                                              _ALL_
                                                       9.000000
                             Y _NULL_
## 46
         percent _ALL_
                                               RACE
                                                      88.095238
## 47
           count _ALL_
                             Y
                               _NULL_
                                              _ALL_
                                                      74.000000
                             Y
## 48
             {\tt max} {\tt ALL}
                                YEARS
                                             _{
m NULL}_{
m }
                                                      88.000000
                                YEARS
## 49
            mean _ALL_
                             Y
                                             _{
m NULL}_{
m }
                                                      75.666667
## 50
          median _ALL_
                             Y
                                YEARS
                                             _{
m NULL}_{
m L}
                                                      77.500000
## 51
             min _ALL_
                             Y
                                YEARS
                                             _NULL_
                                                     51.000000
## 52
           stdev _ALL_
                             Y
                                YEARS
                                             _{
m NULL}_{
m }
                                                       8.286051
## 53
                      F
                             Y
                               _NULL_
                                                      59.523810
         percent
                                                SEX
## 54
                      М
                               NULL
                                                SEX
         percent
                             Y
                                                      40.476190
                             Y NULL
## 55
           count _ALL_
                                              _ALL_
                                                      84.000000
## 56
           count
                             Y NULL
                                              ALL
                                                      50.000000
                               _NULL_
                                              _ALL_
                                                      34.000000
## 57
           count
                      М
                             Y
                             Y
                                             _NULL_ 106.100000
## 58
             max _ALL_
                                   KG
## 59
            mean _ALL_
                             Y
                                   KG
                                             _NULL_ 67.279518
## 60
          median ALL
                             Y
                                   KG
                                             NULL
                                                      64.900000
             min _ALL_
                             Y
                                             NULL
## 61
                                   KG
                                                      45.400000
                                             _NULL_
## 62
           stdev _ALL_
                             Y
                                   KG
                                                      14.123599
                             Y _NULL_
## 63
         percent _ALL_
                                               RACE
                                                       0.000000
## 64
           count _ALL_
                             Y _NULL_
                                              _ALL_
                                                       0.00000
                             Y _NULL_
## 65
         percent _ALL_
                                               RACE
                                                       7.142857
## 66
           count _ALL_
                             Y _NULL_
                                              _ALL_
                                                       6.000000
## 67
         percent _ALL_
                             Y _NULL_
                                               RACE
                                                      92.857143
## 68
           count _ALL_
                             Y _NULL_
                                              _ALL_
                                                      78.000000
```

```
dmtableFile<- file.path( system.file("extdata/sample-cfg", package="rrdfqbcrndex"), "dm.AR.csv" )
## dmtableFile<- file.path(tempdir(),"temp-dm.AR.csv")
write.csv(adsl.summ.stat, file=dmtableFile, row.names=FALSE)</pre>
```

cat("Written to ", dmtableFile, "\n")

Written to /home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/extdata/sample-cfg/dm.AR.csv