Create DM table as csv file

mja@statgroup.dk

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Contents

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.

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

```
## Loading rrdfqbcrndex
```

Get the data and prepare for derivation of summary statistics

```r
library(foreign)
library(sqldf)


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

```
## [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)
```

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)))
```

Store the SQL statements to a file

```
res.text<- stmtSQL$summStatSQL

cr.text<-   paste0("create table qbframe ", "(", paste(names(stmtSQL$qbframe), "TEXT", collapse=", "),

in.text<-   paste0(
  paste(
  paste0("insert into qbframe ", "(", paste0(names(stmtSQL$qbframe),collapse=","), ")\n" ),
  "values\n",
```

```
   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)
```

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.

Note: the `GetSQLFromCube` functions in package `rrdfqbcrndcheck` generates the SQL statements from the cube obversvations.

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

```
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'median' as procedure, 'AGE' as factor, '_NU
UNION
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'count' as procedure, 'quantity' as factor,
UNION
SELECT a.TRT01A, '_ALL_' as RACE, '_ALL_' as SEX, a.SAFFL, 'stdev' as procedure, 'WEIGHTBL' as factor,
"


cr.text<- '
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)
 values
("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"),
("Placebo","_ALL_","quantity","count","F","Y","_NULL_","_ALL_"),
("_ALL_","WHITE","quantity","count","_ALL_","Y","_NULL_","_ALL_"),
("Xanomeline Low Dose","_ALL_","AGE","min","_ALL_","Y","YEARS","_NULL_"),
("Xanomeline High Dose","_ALL_","AGE","stdev","_ALL_","Y","YEARS","_NULL_"),
("Xanomeline Low Dose","_ALL_","proportion","percent","M","Y","_NULL_","SEX"),
("Placebo","_ALL_","AGE","stdev","_ALL_","Y","YEARS","_NULL_"),
("Xanomeline High Dose","WHITE","quantity","count","_ALL_","Y","_NULL_","_ALL_"),
("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"),
("Xanomeline Low Dose","_ALL_","quantity","count","_ALL_","Y","_NULL_","_ALL_"),
("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_"),
("Placebo","_ALL_","AGE","mean","_ALL_","Y","YEARS","_NULL_"),
("Xanomeline High Dose","_ALL_","AGE","median","_ALL_","Y","YEARS","_NULL_"),
("Placebo","_ALL_","AGE","min","_ALL_","Y","YEARS","_NULL_"),
("_ALL_","BLACK OR AFRICAN AMERICAN","quantity","count","_ALL_","Y","_NULL_","_ALL_"),
("Placebo","_ALL_","AGE","median","_ALL_","Y","YEARS","_NULL_"),
("Xanomeline Low Dose","_ALL_","AGE","stdev","_ALL_","Y","YEARS","_NULL_"),
("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 Low Dose","_ALL_","AGE","max","_ALL_","Y","YEARS","_NULL_"),
("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_"),
("Placebo","_ALL_","proportion","percent","M","Y","_NULL_","SEX"),
("Xanomeline Low Dose","_ALL_","proportion","percent","F","Y","_NULL_","SEX"),
("Xanomeline Low Dose","_ALL_","AGE","mean","_ALL_","Y","YEARS","_NULL_"),
("Xanomeline 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","BLACK OR AFRICAN AMERICAN","quantity","count","_ALL_","Y","_NULL_","_ALL_"),
("Placebo","WHITE","quantity","count","_ALL_","Y","_NULL_","_ALL_"),
("Xanomeline Low Dose","_ALL_","AGE","median","_ALL_","Y","YEARS","_NULL_"),
("Xanomeline High Dose","_ALL_","AGE","min","_ALL_","Y","YEARS","_NULL_"),
("_ALL_","AMERICAN INDIAN OR ALASKA NATIVE","quantity","count","_ALL_","Y","_NULL_","_ALL_"),
("Placebo","WHITE","proportion","percent","_ALL_","Y","_NULL_","RACE"),
("Placebo","_ALL_","quantity","count","_ALL_","Y","_NULL_","_ALL_"),
("Xanomeline Low Dose","_ALL_","WEIGHTBL","min","_ALL_","Y","KG","_NULL_"),
("Xanomeline High Dose","_ALL_","WEIGHTBL","stdev","_ALL_","Y","KG","_NULL_"),
("Placebo","_ALL_","WEIGHTBL","stdev","_ALL_","Y","KG","_NULL_"),
("Xanomeline High Dose","_ALL_","WEIGHTBL","max","_ALL_","Y","KG","_NULL_"),
("Placebo","_ALL_","WEIGHTBL","max","_ALL_","Y","KG","_NULL_"),
("Placebo","_ALL_","WEIGHTBL","mean","_ALL_","Y","KG","_NULL_"),
("Xanomeline High Dose","_ALL_","WEIGHTBL","median","_ALL_","Y","KG","_NULL_"),
("Placebo","_ALL_","WEIGHTBL","min","_ALL_","Y","KG","_NULL_"),
("Placebo","_ALL_","WEIGHTBL","median","_ALL_","Y","KG","_NULL_"),
("Xanomeline Low Dose","_ALL_","WEIGHTBL","stdev","_ALL_","Y","KG","_NULL_"),
("Xanomeline Low Dose","_ALL_","WEIGHTBL","max","_ALL_","Y","KG","_NULL_"),
("Xanomeline Low Dose","_ALL_","WEIGHTBL","mean","_ALL_","Y","KG","_NULL_"),
("Xanomeline High Dose","_ALL_","WEIGHTBL","mean","_ALL_","Y","KG","_NULL_"),
("Xanomeline Low Dose","_ALL_","WEIGHTBL","median","_ALL_","Y","KG","_NULL_"),
("Xanomeline High Dose","_ALL_","WEIGHTBL","min","_ALL_","Y","KG","_NULL_")
;
'
se.text<-'
select * from qbframe;
'
```

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()
```

<SQLiteConnection>

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

NULL

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

NULL

```
qbframe<- sqldf(se.text)
sqldf()
```

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
```

```
##                    trt01a                            race      factor
## 1                  _ALL_                            _ALL_   quantity
## 2                  _ALL_                            _ALL_   quantity
## 3                  _ALL_ AMERICAN INDIAN OR ALASKA NATIVE   quantity
## 4                  _ALL_         BLACK OR AFRICAN AMERICAN   quantity
## 5                  _ALL_                            WHITE   quantity
## 6                Placebo                            _ALL_        AGE
## 7                Placebo                            _ALL_        AGE
## 8                Placebo                            _ALL_        AGE
## 9                Placebo                            _ALL_        AGE
## 10               Placebo                            _ALL_        AGE
## 11               Placebo                            _ALL_ proportion
## 12               Placebo                            _ALL_ proportion
## 13               Placebo                            _ALL_   quantity
## 14               Placebo                            _ALL_   quantity
## 15               Placebo                            _ALL_   quantity
## 16               Placebo                            _ALL_   WEIGHTBL
## 17               Placebo                            _ALL_   WEIGHTBL
## 18               Placebo                            _ALL_   WEIGHTBL
## 19               Placebo                            _ALL_   WEIGHTBL
## 20               Placebo                            _ALL_   WEIGHTBL
## 21               Placebo AMERICAN INDIAN OR ALASKA NATIVE proportion
## 22               Placebo AMERICAN INDIAN OR ALASKA NATIVE   quantity
## 23               Placebo         BLACK OR AFRICAN AMERICAN proportion
## 24               Placebo         BLACK OR AFRICAN AMERICAN   quantity
## 25               Placebo                            WHITE proportion
## 26               Placebo                            WHITE   quantity
## 27 Xanomeline High Dose                            _ALL_        AGE
## 28 Xanomeline High Dose                            _ALL_        AGE
## 29 Xanomeline High Dose                            _ALL_        AGE
## 30 Xanomeline High Dose                            _ALL_        AGE
## 31 Xanomeline High Dose                            _ALL_        AGE
```

```
## 32 Xanomeline High Dose                                 _ALL_ proportion
## 33 Xanomeline High Dose                                 _ALL_ proportion
## 34 Xanomeline High Dose                                 _ALL_   quantity
## 35 Xanomeline High Dose                                 _ALL_   quantity
## 36 Xanomeline High Dose                                 _ALL_   quantity
## 37 Xanomeline High Dose                                 _ALL_   WEIGHTBL
## 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                         _ALL_        AGE
## 49  Xanomeline Low Dose                         _ALL_        AGE
## 50  Xanomeline Low Dose                         _ALL_        AGE
## 51  Xanomeline Low Dose                         _ALL_        AGE
## 52  Xanomeline Low Dose                         _ALL_        AGE
## 53  Xanomeline Low Dose                         _ALL_ proportion
## 54  Xanomeline Low Dose                         _ALL_ proportion
## 55  Xanomeline Low Dose                         _ALL_   quantity
## 56  Xanomeline Low Dose                         _ALL_   quantity
## 57  Xanomeline Low Dose                         _ALL_   quantity
## 58  Xanomeline Low Dose                         _ALL_   WEIGHTBL
## 59  Xanomeline Low Dose                         _ALL_   WEIGHTBL
## 60  Xanomeline Low Dose                         _ALL_   WEIGHTBL
## 61  Xanomeline Low Dose                         _ALL_   WEIGHTBL
## 62  Xanomeline Low Dose                         _ALL_   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
## 67  Xanomeline Low Dose                         WHITE proportion
## 68  Xanomeline Low Dose                         WHITE   quantity
##    procedure   sex saffl   unit denominator   measure
## 1      count     F   Y _NULL_       _ALL_ 143.000000
## 2      count     M   Y _NULL_       _ALL_ 111.000000
## 3      count _ALL_   Y _NULL_       _ALL_   1.000000
## 4      count _ALL_   Y _NULL_       _ALL_  23.000000
## 5      count _ALL_   Y _NULL_       _ALL_ 230.000000
## 6        max _ALL_   Y YEARS       _NULL_  89.000000
## 7       mean _ALL_   Y YEARS       _NULL_  75.209302
## 8     median _ALL_   Y YEARS       _NULL_  76.000000
## 9        min _ALL_   Y YEARS       _NULL_  52.000000
## 10     stdev _ALL_   Y YEARS       _NULL_   8.590167
## 11   percent     F   Y _NULL_         SEX  61.627907
## 12   percent     M   Y _NULL_         SEX  38.372093
## 13     count _ALL_   Y _NULL_       _ALL_  86.000000
## 14     count     F   Y _NULL_       _ALL_  53.000000
## 15     count     M   Y _NULL_       _ALL_  33.000000
## 16       max _ALL_   Y     KG      _NULL_  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    stdev _ALL_    Y    KG     _NULL_  12.771544
## 21  percent _ALL_    Y _NULL_      RACE   0.000000
## 22    count _ALL_    Y _NULL_      _ALL_   0.000000
## 23  percent _ALL_    Y _NULL_      RACE   9.302326
## 24    count _ALL_    Y _NULL_      _ALL_   8.000000
## 25  percent _ALL_    Y _NULL_      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      min _ALL_    Y YEARS     _NULL_  56.000000
## 31    stdev _ALL_    Y YEARS     _NULL_   7.886094
## 32  percent     F    Y _NULL_       SEX  47.619048
## 33  percent     M    Y _NULL_       SEX  52.380952
## 34    count _ALL_    Y _NULL_      _ALL_  84.000000
## 35    count     F    Y _NULL_      _ALL_  40.000000
## 36    count     M    Y _NULL_      _ALL_  44.000000
## 37      max _ALL_    Y    KG     _NULL_ 108.000000
## 38     mean _ALL_    Y    KG     _NULL_  70.004762
## 39   median _ALL_    Y    KG     _NULL_  69.200000
## 40      min _ALL_    Y    KG     _NULL_  41.700000
## 41    stdev _ALL_    Y    KG     _NULL_  14.653433
## 42  percent _ALL_    Y _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
## 46  percent _ALL_    Y _NULL_      RACE  88.095238
## 47    count _ALL_    Y _NULL_      _ALL_  74.000000
## 48      max _ALL_    Y YEARS     _NULL_  88.000000
## 49     mean _ALL_    Y YEARS     _NULL_  75.666667
## 50   median _ALL_    Y YEARS     _NULL_  77.500000
## 51      min _ALL_    Y YEARS     _NULL_  51.000000
## 52    stdev _ALL_    Y YEARS     _NULL_   8.286051
## 53  percent     F    Y _NULL_       SEX  59.523810
## 54  percent     M    Y _NULL_       SEX  40.476190
## 55    count _ALL_    Y _NULL_      _ALL_  84.000000
## 56    count     F    Y _NULL_      _ALL_  50.000000
## 57    count     M    Y _NULL_      _ALL_  34.000000
## 58      max _ALL_    Y    KG     _NULL_ 106.100000
## 59     mean _ALL_    Y    KG     _NULL_  67.279518
## 60   median _ALL_    Y    KG     _NULL_  64.900000
## 61      min _ALL_    Y    KG     _NULL_  45.400000
## 62    stdev _ALL_    Y    KG     _NULL_  14.123599
## 63  percent _ALL_    Y _NULL_      RACE   0.000000
## 64    count _ALL_    Y _NULL_      _ALL_   0.000000
## 65  percent _ALL_    Y _NULL_      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)
cat("Written to ", dmtableFile, "\n")
```

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