Create DM table as csv file

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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.

```
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)
```

```
## [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_' a
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_' a
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, '_NUL
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