

# Create ADSL as TTL file

*mja@statgroup.dk*

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## Create turtle version of ADSL dataset

### Setup

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

```
## Loading rrdqbcrndex
```

This script creates a turtle version of the ADSL dataset.

The script uses SQLite to export the ADSL dataset, and d2rq (<http://d2rq.org/>) to create a turtle version of the file. In the code below it is assumed that d2rq is installed in the directory `/opt/d2rq-0.8.1`.

```
library(foreign)
fnadsl<- system.file("extdata/sample-xpt", "adsl.xpt", package="rrdfqbcrndex")
adsl<-read.xport(fnadsl)
```

The present code uses `read.xport` to input the sas dataset. TODO: Date variables are not handled correctly. Other methods are available allowing access to more of the meta data in the datasets.

Next step is to dump the data as a SQL dump, that will serve as input to D2RQ. For dumping the data `sqlite` is used as it is the easiest to setup. The R-package `RSQLite` (<http://cran.r-project.org/web/packages/RSQLite/RSQLite.pdf>) provides access to `sqlite`.

```
## install.packages("RSQLite")
```

The SQL dump is created by transferring the R data.frame to SQLite, and then invoking `sqlite` to create a dump.

```
library(RSQLite)
## create a SQLite instance and create one connection.
m <- dbDriver("SQLite")
## initialize a new database to a tempfile and copy some data.frame
## from the base package into it
tfile <- tempfile()
con <- dbConnect(m, dbname = tfile)
dbWriteTable(con, "adsl", adsl)
```

```
## [1] TRUE
```

```
dbDisconnect(con)
```

```
## [1] TRUE
```

```
cat("SQLite database stored as ", tfile, "\n")
```

```
## SQLite database stored as /tmp/RtmpDGdzpS/file27213e85fedd
```

```
dumpFn<- tempfile()
system(paste("sqlite3", tfile, ".dump >", dumpFn, sep=" "))
cat("SQLite database dump in ", dumpFn, "\n")
```

```
## SQLite database dump in /tmp/RtmpDGdzpS/file27217334e2e2
```

Next step is to process the dump, so the SQL can be used as input to d2rq. The changes applied are: \* change TEXT to VARCHAR(1000) \* remove top 2 lines with PRAGMA \* in insert statements replace “adsl” with adsl \* after “MMSETOT” REAL add a comma (“,”) and a new line with PRIMARY KEY (USUBJID)

This could maybe be simplified using RSQLite on dbSendQuery-methods, see (<https://stat.ethz.ch/pipermail/r-sig-db/2010q1/000813.html>). For d2rq documentation see (<file:///opt/d2rq-0.8.1/doc/dump-rdf.html>).

```
dumpAfterSedFn <- tempfile()
sedCmd<- paste("sed",
               "-e 's/TEXT/VARCHAR(1000)/g; s/\"MMSETOT\" REAL/\"MMSETOT\" REAL, PRIMARY KEY (USUBJID)/'",
               dumpFn, ">", dumpAfterSedFn, sep=" ")
system(sedCmd)
cat("SQLite database dump modified stored as ", dumpAfterSedFn, "\n")
```

```
## SQLite database dump modified stored as /tmp/RtmpDGdzpS/file272168506a56
```

```
## Check only expected changes were applied
## not run due to large output
## system(paste("diff", dumpFn, dumpAfterSedFn, sep=" "))

adslmapttlFn<- file.path(tempdir(), "adsl-map.ttl")
adslttlFn<- file.path(tempdir(), "adsl.ttl")

d2rqbaseURL<- "http://www.example.org/datasets/"

## -b option does not work with -l
## /opt/d2rq-0.8.1/generate-mapping reports Unknown argument: -b
system(paste("/opt/d2rq-0.8.1/generate-mapping",
             "-l ", dumpAfterSedFn,
             "-o ", adslmapttlFn,
             ""))

system(paste("/opt/d2rq-0.8.1/dump-rdf",
             "-b ", d2rqbaseURL,
```

```

        " -o ", adslttlFn,
        " -l ", dumpAfterSedFn,
        " ", adslmapttlFn
    ))

targetDir<- system.file("extdata/sample-rdf", package="rrdfqbc rnd0")
if (file.copy(adslmapttlFn, targetDir, overwrite = TRUE)) {
cat( "File ", adslmapttlFn, " copied to directory ", targetDir, "\n")
}

```

```
## File /tmp/RtmpDGdzpS/adsl-map.ttl copied to directory /home/ma/projects/R-projects/rrdfqbc rnd0/rrdfqbc
```

```

if (file.copy(adslttlFn, targetDir, overwrite = TRUE)) {
cat( "File ", adslttlFn, " copied to directory ", targetDir, "\n")
}

```

```
## File /tmp/RtmpDGdzpS/adsl.ttl copied to directory /home/ma/projects/R-projects/rrdfqbc rnd0/rrdfqbc
```

```

### This could maybe also work ..
## m <- dbDriver("SQLite")
## tfile <- tempfile()
## con <- dbConnect(m, dbname = tfile)
## s <- sprintf("create table %s(%s, primary key(%s))", "adsl",
##             paste(names(adsl), collapse = ", "),
##             paste(names(adsl)[c(1,2)], collapse=", "))
##             )
## dbGetQuery(con, s)

## dbWriteTable(con, "adsl", adsl,append=TRUE)
## dbDisconnect(con)
## tfile

```

## Read in the file

This section demonstrates how to access the data for the ADSL dataset.

First the data are loaded into a RDF model.

```

dataFilemap<- system.file("extdata/sample-rdf", "adsl-map.ttl", package="rrdfqbc rnd0")
dataFilemap

```

```
## [1] "/home/ma/projects/R-projects/rrdfqbc rnd0/rrdfqbc rnd0/inst/extdata/sample-rdf/adsl-map.ttl"
```

```

dataFile<- system.file("extdata/sample-rdf", "adsl.ttl", package="rrdfqbc rnd0")
dataFile

```

```
## [1] "/home/ma/projects/R-projects/rrdfqbc rnd0/rrdfqbc rnd0/inst/extdata/sample-rdf/adsl.ttl"
```

```
store <- new.rdf() # Initialize
invisible(load.rdf(dataFilemap, format="TURTLE", appendTo= store))
invisible(load.rdf(dataFile, format="TURTLE", appendTo= store))
summarize.rdf(store)
```

```
## [1] "Number of triples: 13160"
```

Next step is to make a query showing the mappings

```
mapping.rq<-"
prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>
prefix xsd: <http://www.w3.org/2001/XMLSchema#>
prefix d2rq: <http://www.wiwiss.fu-berlin.de/suhl/bizer/D2RQ/0.1#>
prefix jdbc: <http://d2rq.org/terms/jdbc/>
select * where {
  ?mapColumn a d2rq:PropertyBridge ;
              d2rq:column ?d2rqcolumn .
  optional{ ?mapColumn d2rq:datatype ?d2rqdatatype }
}
"

cat(mapping.rq,"\n")
```

```
##
## prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
## prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>
## prefix xsd: <http://www.w3.org/2001/XMLSchema#>
## prefix d2rq: <http://www.wiwiss.fu-berlin.de/suhl/bizer/D2RQ/0.1#>
## prefix jdbc: <http://d2rq.org/terms/jdbc/>
## select * where {
##   ?mapColumn a d2rq:PropertyBridge ;
##             d2rq:column ?d2rqcolumn .
##   optional{ ?mapColumn d2rq:datatype ?d2rqdatatype }
## }
##
```

```
resmapping<- data.frame(sparql.rdf(store, mapping.rq),stringsAsFactors=FALSE)
str(resmapping)
```

```
## 'data.frame':   48 obs. of  3 variables:
## $ mapColumn   : chr  "file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADSL_USUBJID"
## $ d2rqcolumn  : chr  "ADSL.USUBJID" "ADSL.TRT01A" "ADSL.TRT01P" "ADSL.STUDYID" ...
## $ d2rqdatatype: chr  NA NA NA NA ...
```

```
knitr::kable(resmapping)
```

mapColumn	d2rqcolumn
<a href="#">file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADSL_USUBJID</a>	ADSL.USUBJID
<a href="#">file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADSL_TRT01A</a>	ADSL.TRT01A

mapColumn	d2rqcolumn
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_TRT01P	ADSL.TR01P
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_STUDYID	ADSL.STUDYID
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_DISCONFL	ADSL.DISCONFL
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_AGEU	ADSL.AGEU
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_ITTFL	ADSL.ITTFL
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_DCDECOD	ADSL.DCDECOD
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_BMIBL	ADSL.BMIBL
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_DURDIS	ADSL.DURDIS
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_SUBJID	ADSL.SUBJID
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_ETHNIC	ADSL.ETHNIC
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_EFFFL	ADSL.EFFFL
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_SITEGR1	ADSL.SITEGR1
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_COMP8FL	ADSL.COMP8FL
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_TRTSDT	ADSL.TR0SDT
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_SEX	ADSL.SEX
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_WEIGHTBL	ADSL.WEIGHTB
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_AGE	ADSL.AGE
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_CUMDOSE	ADSL.CUMDOSE
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_COMP16FL	ADSL.COMP16F
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_AGEGR1	ADSL.AGEGR1
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_BMIBLGR1	ADSL.BMIBLGR
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_COMP24FL	ADSL.COMP24F
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_TRT01PN	ADSL.TR01PN
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_RFENDT	ADSL.RFENDT
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_DURDSGR1	ADSL.DURDSGR
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_RFSTDTC	ADSL.RFSTDTC
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_AVGDD	ADSL.AVGDD
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_TRTDUR	ADSL.TR0DUR
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_HEIGHTBL	ADSL.HEIGHTB
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_AGEGR1N	ADSL.AGEGR1N
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_RACEN	ADSL.RACEN
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_RFENDTC	ADSL.RFENDTC
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_DISONSDT	ADSL.DISONSDT
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_SITEID	ADSL.SITEID
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_EDUCLVL	ADSL.EDUCLVL
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_DSRAEFL	ADSL.DSRAEFL
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_ARM	ADSL.ARM
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_SAFFL	ADSL.SAFFL
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_RACE	ADSL.RACE
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_TRT01AN	ADSL.TR01AN
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_MMSETOT	ADSL.MMSETOT
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_VISNUMEN	ADSL.VISNUME
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_VISIT1DT	ADSL.VISIT1DT
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_DTHFL	ADSL.DTHFL
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_DCREASCD	ADSL.DCREASC
file:///home/ma/projects/R-projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-row/#ADSL_TRTEDT	ADSL.TR0EDT

The code below gets the all values in one record

```
s<- paste0("<", d2rqbaseURL,c("ADSL/01-718-1254"), ">")
records.rq<-paste("select * ",
```

```

      "where { ?s ?p ?o.",
      " values(?s) {",
      paste("(",s,")", collapse="\n"),
      "}",
      "}", sep="\n", collapse="\n" )
cat(records.rq,"\n")

```

```

## select *
## where { ?s ?p ?o.
##   values(?s) {
##     (<http://www.example.org/datasets/ADSL/01-718-1254> )
##   }
## }

```

```

records.res<- data.frame(sparql.rdf(store, records.rq),stringsAsFactors=FALSE)
str(records.res)

```

```

## 'data.frame':   51 obs. of  3 variables:
## $ s: chr  "http://www.example.org/datasets/ADSL/01-718-1254" "http://www.example.org/datasets/ADSL/01-718-1254" ...
## $ p: chr  "http://www.example.org/datasets/vocab/ADSL_EFFFL" "http://www.example.org/datasets/vocab/ADSL_DCREASCD" ...
## $ o: chr  "Y" "Completed" "54.0E0" "Y" ...

```

```

records.res$pclean<- gsub(paste0(d2rqbaseURL,"vocab/ADSL_"), "", records.res$p)
knitr::kable(records.res[,c("s", "p","o")])

```

s	p	o
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_EFFFL">http://www.example.org/datasets/vocab/ADSL_EFFFL</a>	Y
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_DCREASCD">http://www.example.org/datasets/vocab/ADSL_DCREASCD</a>	C
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_TRT01PN">http://www.example.org/datasets/vocab/ADSL_TRT01PN</a>	5
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_COMP8FL">http://www.example.org/datasets/vocab/ADSL_COMP8FL</a>	Y
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_CUMDOSE">http://www.example.org/datasets/vocab/ADSL_CUMDOSE</a>	9
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_TRTSDT">http://www.example.org/datasets/vocab/ADSL_TRTSDT</a>	1
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_SITEGR1">http://www.example.org/datasets/vocab/ADSL_SITEGR1</a>	7
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_TRT01AN">http://www.example.org/datasets/vocab/ADSL_TRT01AN</a>	5
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_AVGDD">http://www.example.org/datasets/vocab/ADSL_AVGDD</a>	5
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_DURDIS">http://www.example.org/datasets/vocab/ADSL_DURDIS</a>	2
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_TRTDUR">http://www.example.org/datasets/vocab/ADSL_TRTDUR</a>	1
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_HEIGHTBL">http://www.example.org/datasets/vocab/ADSL_HEIGHTBL</a>	1
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_COMP16FL">http://www.example.org/datasets/vocab/ADSL_COMP16FL</a>	Y
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_DCDECOD">http://www.example.org/datasets/vocab/ADSL_DCDECOD</a>	C
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_WEIGHTBL">http://www.example.org/datasets/vocab/ADSL_WEIGHTBL</a>	8
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_BMIBLGR1">http://www.example.org/datasets/vocab/ADSL_BMIBLGR1</a>	2
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_AGE">http://www.example.org/datasets/vocab/ADSL_AGE</a>	7
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_SUBJID">http://www.example.org/datasets/vocab/ADSL_SUBJID</a>	1
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_TRT01A">http://www.example.org/datasets/vocab/ADSL_TRT01A</a>	X
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_DURDSGR1">http://www.example.org/datasets/vocab/ADSL_DURDSGR1</a>	>
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_RFSTDTC">http://www.example.org/datasets/vocab/ADSL_RFSTDTC</a>	2
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_SEX">http://www.example.org/datasets/vocab/ADSL_SEX</a>	M
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_DISCONFL">http://www.example.org/datasets/vocab/ADSL_DISCONFL</a>	
<a href="http://www.example.org/datasets/ADSL/01-718-1254">http://www.example.org/datasets/ADSL/01-718-1254</a>	<a href="http://www.example.org/datasets/vocab/ADSL_DSRAEFL">http://www.example.org/datasets/vocab/ADSL_DSRAEFL</a>	
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