

# Create ADAE as TTL file

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## Contents

Create turtle version of ADAE dataset	1
Setup . . . . .	1

## Create turtle version of ADAE dataset

### Setup

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

```
## Loading rrdqbcrndex
```

This script creates a turtle version of the ADAE dataset.

The script uses SQLite to export the ADAE 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)
fnadae<- system.file("extdata/sample-xpt", "adae.xpt", package="rrdfqbcrndex")
adae<-read.xport(fnadae)
```

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, "adae", adae)
```

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

```
dbDisconnect(con)
```

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

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

```
## SQLite database stored as /tmp/RtmpUkgzQX/file478664308ca4
```

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

```
## SQLite database dump in /tmp/RtmpUkgzQX/file47863077f5a7
```

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 “adae” with adae \* after “AOCC01FL” TEXT add a comma (“,”) and a new line with PRIMARY KEY (USUBJID,AESEQ)

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/\"AOCC01FL\" VARCHAR(1000)/\"AOCC01FL\" VARCHAR(1000), PR",
               dumpFn, ">", dumpAfterSedFn, sep=" ")
system(sedCmd)
cat("SQLite database dump modified stored as ", dumpAfterSedFn, "\n")
```

```
## SQLite database dump modified stored as /tmp/RtmpUkgzQX/file47863cf4ea79
```

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

adaemapttlFn<- file.path(tempdir(), "adae-map.ttl")
adaetttlFn<- file.path(tempdir(), "adae.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 ", adaemapttlFn,
             ""))

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

```

    " -b ", d2rqbaseURL,
    " -o ", adaettlFn,
    " -l ", dumpAfterSedFn,
    " ", adaemapttlFn
  ))

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

```

```
## File /tmp/RtmpUkgzQX/adae-map.ttl copied to directory /home/ma/projects/rrdfqbcindex0/rrdfqbcindex/inst/
```

```

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

```

```
## File /tmp/RtmpUkgzQX/adae.ttl copied to directory /home/ma/projects/rrdfqbcindex0/rrdfqbcindex/inst/
```

```

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

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

```

## Read in the file

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

First the data are loaded into a RDF model.

```
dataFilemap<- system.file("extdata/sample-rdf", "adae-map.ttl", package="rrdfqbcindex")
dataFilemap
```

```
## [1] "/home/ma/projects/rrdfqbcindex0/rrdfqbcindex/inst/extdata/sample-rdf/adae-map.ttl"
```

```

dataFile<- system.file("extdata/sample-rdf", "adae.ttl", package="rrdfqbcindex")
dataFile

```

```
## [1] "/home/ma/projects/rrdfqbcindex0/rrdfqbcindex/inst/extdata/sample-rdf/adae.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: 61002"
```

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':   55 obs. of  3 variables:
## $ mapColumn : chr "file:///home/ma/projects/rrdfqbc rnd0/rrdfqbc rndex/inst/data-row/#ADAE_AOCCPFL"
## $ d2rqcolumn : chr "ADAE.AOCCPFL" "ADAE.AESCAN" "ADAE.AENDT" "ADAE.ADURU" ...
## $ d2rqdatatype: chr NA NA "xsd:double" NA ...
```

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

mapColumn	d2rqcolumn	d2rqdatatype
<a href="#">file:///home/ma/projects/rrdfqbc rnd0/rrdfqbc rndex/inst/data-row/#ADAE_AOCCPFL</a>	ADAE.AOCCPFL	NA
<a href="#">file:///home/ma/projects/rrdfqbc rnd0/rrdfqbc rndex/inst/data-row/#ADAE_AESCAN</a>	ADAE.AESCAN	NA

mapColumn	d2rqcolumn	d2rqd
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AENDT	ADAE.AENDT	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_ADURU	ADAE.ADURU	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_SITEID	ADAE.SITEID	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AOCCSFL	ADAE.AOCCSFL	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_RACEN	ADAE.RACEN	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESOC	ADAE.AESOC	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AOCC01FL	ADAE.AOCC01FL	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESCONG	ADAE.AESCONG	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AEACN	ADAE.AEACN	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AEHLTCD	ADAE.AEHLTCD	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESEQ	ADAE.AESEQ	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_TRTA	ADAE.TRTA	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AELLTCD	ADAE.AELLTCD	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AOCC03FL	ADAE.AOCC03FL	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_TRTEMFL	ADAE.TRTEMFL	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AEPTCD	ADAE.AEPTCD	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AENDY	ADAE.AENDY	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESOCCD	ADAE.AESOCCD	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AGEGR1	ADAE.AGEGR1	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESLIFE	ADAE.AESLIFE	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_RACE	ADAE.RACE	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AELLT	ADAE.AELLT	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESDTH	ADAE.AESDTH	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_SEX	ADAE.SEX	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_USUBJID	ADAE.USUBJID	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AOCC02FL	ADAE.AOCC02FL	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AOCCFL	ADAE.AOCCFL	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_TRTSDT	ADAE.TRTSDT	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_CQ01NAM	ADAE.CQ01NAM	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AEHLGT	ADAE.AEHLGT	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESEV	ADAE.AESEV	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AEOUT	ADAE.AEOUT	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESDISAB	ADAE.AESDISAB	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESOD	ADAE.AESOD	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AEDECOD	ADAE.AEDECOD	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AGEGR1N	ADAE.AGEGR1N	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AEREL	ADAE.AEREL	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESER	ADAE.AESER	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AETERM	ADAE.AETERM	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_ASTDTF	ADAE.ASTDTF	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AEBODSYS	ADAE.AEBODSYS	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AGE	ADAE.AGE	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_ASTDY	ADAE.ASTDY	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_SAFFL	ADAE.SAFFL	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AEHLGTCD	ADAE.AEHLGTCD	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_STUDYID	ADAE.STUDYID	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AOCC04FL	ADAE.AOCC04FL	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_TRTAN	ADAE.TR TAN	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_ADURN	ADAE.ADURN	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_AESHOSP	ADAE.AESHOSP	NA
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_TRTEDT	ADAE.TR TEDT	xsd:d
file:///home/ma/projects/rrdfqbcrnd0/rrdfqbcrndex/inst/data-raw/#ADAE_ASTDT	ADAE.ASTD T	xsd:d

mapColumn	d2rqcolumn	d2rqcolumn
<a href="file:///home/ma/projects/rrdfqbc rnd0/rrdfqbc rndex/inst/data-raw/#ADAE_AEHLT">file:///home/ma/projects/rrdfqbc rnd0/rrdfqbc rndex/inst/data-raw/#ADAE_AEHLT</a>	ADAE.AEHLT	NA

The code below gets the all values in one record

```
s<- paste0("<", d2rqbaseURL,c("ADAE/01-701-1023/2.0E0"), ">")

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/ADAE/01-701-1023/2.0E0> )
## }
## }
```

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

```
## 'data.frame':   50 obs. of  3 variables:
## $ s: chr  "http://www.example.org/datasets/ADAE/01-701-1023/2.0E0" "http://www.example.org/datasets/ADAE/01-701-1023/2.0E0" ...
## $ p: chr  "http://www.example.org/datasets/vocab/ADAE_AEHLT" "http://www.example.org/datasets/vocab/ADAE_AEHLT" ...
## $ o: chr  "HLT_0284" "Y" "Placebo" "N" ...
```

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

s	p
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_AEHLT">http://www.example.org/datasets/vocab/ADAE_AEHLT</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_TRTEM">http://www.example.org/datasets/vocab/ADAE_TRTEM</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_TRTA">http://www.example.org/datasets/vocab/ADAE_TRTA</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_AESCON">http://www.example.org/datasets/vocab/ADAE_AESCON</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_ADURU">http://www.example.org/datasets/vocab/ADAE_ADURU</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_AOCCSE">http://www.example.org/datasets/vocab/ADAE_AOCCSE</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_SEX">http://www.example.org/datasets/vocab/ADAE_SEX</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_AESOC">http://www.example.org/datasets/vocab/ADAE_AESOC</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_AESER">http://www.example.org/datasets/vocab/ADAE_AESER</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_TRTEDT">http://www.example.org/datasets/vocab/ADAE_TRTEDT</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_AEBODS">http://www.example.org/datasets/vocab/ADAE_AEBODS</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_SAFFL">http://www.example.org/datasets/vocab/ADAE_SAFFL</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_AESDTH">http://www.example.org/datasets/vocab/ADAE_AESDTH</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_AGE">http://www.example.org/datasets/vocab/ADAE_AGE</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_AOCC01">http://www.example.org/datasets/vocab/ADAE_AOCC01</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#type">http://www.w3.org/1999/02/22-rdf-syntax-ns#type</a>

s	p
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_ASTDY">http://www.example.org/datasets/vocab/ADAE_ASTDY</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_STUDYI">http://www.example.org/datasets/vocab/ADAE_STUDYI</a>
<a href="http://www.example.org/datasets/ADAE/01-701-1023/2.0E0">http://www.example.org/datasets/ADAE/01-701-1023/2.0E0</a>	<a href="http://www.example.org/datasets/vocab/ADAE_ASTDT">http://www.example.org/datasets/vocab/ADAE_ASTDT</a>
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