

safetyData: Join SDTM.DS with SUPPDS

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```
library(safetyData) # a package with sample CDISC data sets
library(tidyverse)
```

NOTES:

- with tidyverse, column names are case sensitive
- tidyr
 - pivot_wider() : transpose from long to wide
- dplyr
 - select() : keep/drop columns
 - filter() : select rows

```
## Get list of datasets
dataset_list <- data(package = "safetyData")$results[ , "Item"]
dataset_list[1:5]
```

```
## [1] "adam_adae"      "adam_adlbc"     "adam_adlbh"     "adam_adlbhy"
## [5] "adam_adqsadas"
```

A. Transpose SUPPDS

```
sdtm_suppds[c(1:2), c(3:8)]
```

```
##      USUBJID IDVAR IDVARVAL      QNAM      QLABEL QVAL
## 1 01-703-1175 DSSEQ      1 ENTCRIT PROTOCOL ENTRY CRITERIA NOT MET    16
## 2 01-705-1382 DSSEQ      1 ENTCRIT PROTOCOL ENTRY CRITERIA NOT MET    25
```

Transpose and drop columns not needed for ADaMs or TLFs:

```
cols_to_drop <- c("STUDYID", "RDOMAIN", "IDVAR", "QLABEL", "QORIG", "QEVAL")

sdtm_suppds_t <- sdtm_suppds %>%
  pivot_wider(names_from=QNAM, values_from=QVAL) %>%
  select(-all_of(cols_to_drop))
dim(sdtm_suppds_t)
```

```
## [1] 3 3
```

```
sdtm_suppds_t[c(1:3),]
```

```
## # A tibble: 3 x 3
##   USUBJID      IDVARVAL ENTCRIT
```

```
##      <chr>          <int>    <int>
## 1 01-703-1175      1        16
## 2 01-705-1382      1        25
## 3 01-708-1372      1        16
```

B. Join DS with transposed SUPPDS

```
ds001 <- sdtm_ds
dim(ds001)
```

```
## [1] 596 13
```

```
ds001[c(1:3), ]
```

```
##      STUDYID DOMAIN      USUBJID DSSEQ DSSPID      DSTERM
## 1 CDISCPILOT01    DS 01-701-1015    1    NA PROTOCOL COMPLETED
## 2 CDISCPILOT01    DS 01-701-1015    2    NA    FINAL LAB VISIT
## 3 CDISCPILOT01    DS 01-701-1023    1    24    ADVERSE EVENT
##      DSDECODE      DSCAT VISITNUM VISIT      DSDTC
## 1    COMPLETED DISPOSITION EVENT      13 WEEK 26    2014-07-02
## 2 FINAL LAB VISIT      OTHER EVENT      13 WEEK 26 2014-07-02T11:45
## 3    ADVERSE EVENT DISPOSITION EVENT      5 WEEK 4    2012-09-02
##      DSSTDTC DSSTDY
## 1 2014-07-02    182
## 2 2014-07-02    182
## 3 2012-09-02     29
```

```
ds002 <- left_join(ds001, sdtm_suppds_t, by=c("USUBJID"="USUBJID", "DSSEQ"="IDVARVAL"))
dim(ds002)
```

```
## [1] 596 14
```

Check results: See rows where SUPPDS.ENTCRIT is not missing

```
ds002_q1 <- ds002 %>%
  filter(!is.na(ENTCRIT))
dim(ds002_q1)
```

```
## [1] 3 14
```

```
head(ds002_q1)
```

```
##      STUDYID DOMAIN      USUBJID DSSEQ DSSPID      DSTERM
## 1 CDISCPILOT01    DS 01-703-1175    1    NA PROTOCOL ENTRY CRITERIA NOT MET
## 2 CDISCPILOT01    DS 01-705-1382    1    NA PROTOCOL ENTRY CRITERIA NOT MET
## 3 CDISCPILOT01    DS 01-708-1372    1    NA PROTOCOL ENTRY CRITERIA NOT MET
##      DSDECODE      DSCAT VISITNUM VISIT      DSDTC      DSSTDTC
## 1 PROTOCOL VIOLATION DISPOSITION EVENT      4 WEEK 2 2013-12-31 2013-12-31
## 2 PROTOCOL VIOLATION DISPOSITION EVENT      4 WEEK 2 2013-05-13 2013-05-13
## 3 PROTOCOL VIOLATION DISPOSITION EVENT      4 WEEK 2 2013-05-10 2013-05-10
##      DSSTDY ENTCRIT
## 1    12        16
## 2     1        25
## 3    29        16
```