

cohortCapr markdown

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Concept counts

Retrieve counts for a concept set

```
## Count occurrences of each concept in data
```

```
# Establish connection
```

```
con <- connect(connectionDetails)
```

```
## Connecting using PostgreSQL driver
```

```
# Get countOccurrences function
```

```
source("./R/countOccurrences.R")
```

```
# Get links between tables and fields as input
```

```
source("./R/table_linked_to_concept_field.R")
```

```
## Sourced links object
```

```
print(links)
```

```
## $condition_occurrence
```

```
## [1] "condition_concept_id" "condition_source_value"
```

```
##
```

```
## $death
```

```
## [1] "cause_concept_id" "cause_source_value"
```

```
##
```

```
## $device_exposure
```

```
## [1] "device_concept_id" "device_source_value"
```

```
##
```

```
## $drug_exposure
```

```
## [1] "drug_concept_id" "drug_source_value"
```

```
##
```

```
## $measurement
```

```
## [1] "measurement_concept_id" "measurement_source_value"
```

```
##
```

```
## $observation
```

```
## [1] "observation_concept_id" "observation_source_value"
```

```
##
```

```
## $procedure_occurrence
```

```
## [1] "procedure_concept_id"    "procedure_source_value"
##
## $specimen
## [1] "specimen_concept_id"      "specimen_source_value"
##
## $visit_occurrence
## [1] "visit_concept_id"        "visit_source_value"
```

```
conceptCounts <-
  countOccurrences(
    c(3004249, 317009, 3027946, 4029498, 317510, 5083),
    c("condition_occurrence", "procedure_occurrence", "measurement", "observation"),
    links,
    con,
    connectionConfig$cdm_schema,
    connectionConfig$vocabulary_schema,
    save_path = config_oth$save_path_counts
  )
```

```
##
## Attaching package: 'dplyr'
##
## The following objects are masked from 'package:stats':
##
##   filter, lag
##
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
## Warning: Input SQL has already been translated, so not translating again
## This warning is displayed once every 8 hours.
```

```
## | |
```

```
## Executing SQL took 0.0262 secs
```

```
## | |
```

```
## Executing SQL took 0.00623 secs
```

```
## 'summarise()' has grouped output by 'concept_id', 'concept_name'. You can override using the '.group
```

```
knitr::kable(conceptCounts, format = "latex", caption = "countOccurrences results",
  col.names = c("concept_id", "concept_name", "domain", "n_person", "n_record", "n_desc_person"),
  align = rep.int("l", 7)) |>
  kableExtra::column_spec(c(1,2,3,4,5,6,7), width = rep.int("6em", 7)) |>
  kableExtra::scroll_box(width = "100%", height = "500px")
```

```
## Warning in table_info$align_vector[column] <-
## unlist(lapply(table_info$align_vector_origin[column], : number of items to
## replace is not a multiple of replacement length
```

Table 1: countOccurrences results

concept_id	concept_name	domain	n_person	n_record	n_desc_person	n_desc_record
3004249	Systolic blood pressure	Measurement	1002	13250	1002	13250
317009	Asthma	Condition	0	0	71	71
3027946	Carbon dioxide [Partial pressure] in Arterial blood	Measurement	3	39	3	39
4029498	Seizure disorder	Condition	14	14	15	24
317510	Leukemia	Condition	0	0	1	1
5083	Telehealth	Visit	0	0	0	0

```
# Disconnect
disconnect(con)
```