

```
cbs_get_data {cbsodataR}
```

## Get data from Statistics Netherlands (CBS)

### Description

Retrieves data from a table of Statistics Netherlands. A list of available tables can be retrieved with [cbs\\_get\\_toc\(\)](#). Use the `Identifier` column of `cbs_get_toc` as `id` in `cbs_get_data` and `cbs_get_meta`.

### Usage

```
cbs_get_data(  
  id,  
  ...,  
  catalog = "CBS",  
  select = NULL,  
  typed = TRUE,  
  add_column_labels = TRUE,  
  dir = tempdir(),  
  verbose = FALSE,  
  base_url = getOption("cbsodataR.base_url", BASE_URL),  
  include_ID = FALSE  
)
```

### Arguments

<code>id</code>	Identifier of table, can be found in <a href="#">cbs_get_toc()</a>
<code>...</code>	optional filter statements, see details.
<code>catalog</code>	catalog id, can be retrieved with <a href="#">cbs_get_datasets()</a>
<code>select</code>	character optional, columns to select
<code>typed</code>	Should the data automatically be converted into integer and numeric?
<code>add_column_labels</code>	Should column titles be added as a label (TRUE) which are visible in View
<code>dir</code>	Directory where the table should be downloaded. Defaults to temporary directory
<code>verbose</code>	Print extra messages what is happening.
<code>base_url</code>	optionally specify a different server. Useful for third party data services implementing the same protocol.
<code>include_ID</code>	Should the data include the ID column for the rows?

### Details

To reduce the download time, optionally the data can be filtered on category values: for large tables (> 100k records) this is a wise thing to do.

The filter is specified with (see examples below):

- `<column_name> = <values>` in which `<values>` is a character vector. Rows with values that are not part of the character vector are not returned. **Note that the values have to be values from the `$key` column of the corresponding meta data. These may contain trailing spaces...**
- `<column_name> = has_substring(x)` in which `x` is a character vector. Rows with values that do not have a substring that is in `x` are not returned. Useful substrings are "JJ", "KW", "MM" for Periods (years, quarters, months) and "PV", "CR" and "GM" for Regions (provinces, corops, municipalities).
- `<column_name> = eq(<values>) | has_substring(x)`, which combines the two statements above.

By default the columns will be converted to their type (`typed=TRUE`). CBS uses multiple types of missing (unknown, suppressed, not measured, missing): users wanting all these nuances can use `typed=FALSE` which results in character columns.

## Value

`data.frame` with the requested data. Note that a csv copy of the data is stored in `dir`.

## Note

All data are downloaded using [cbs\\_download\\_table\(\)](#)

## See Also

[cbs\\_get\\_meta\(\)](#), [cbs\\_download\\_data\(\)](#)

## Other data

retrieval: [cbs\\_add\\_date\\_column\(\)](#), [cbs\\_add\\_label\\_columns\(\)](#), [cbs\\_download\\_data\(\)](#), [cbs\\_extract\\_table\\_id\(\)](#), [cbs\\_get\\_data\\_from\\_link\(\)](#)

Other query: [eq\(\)](#), [has\\_substring\(\)](#)

## Examples

### [Run examples](#)

```
## Not run:
cbs_get_data( id      = "7196ENG"      # table id
              , Periods = "2000MM03"   # March 2000
              , CPI     = "000000"     # Category code for total
              )

# useful substrings:
## Periods: "JJ": years, "KW": quarters, "MM", months
```

```
## Regions: "NL", "PV": provinces, "GM": municipalities

cbs_get_data( id      = "7196ENG"      # table id
              , Periods = has_substring("JJ") # all years
              , CPI     = "000000"      # Category code for total
              )

cbs_get_data( id      = "7196ENG"      # table id
              , Periods = c("2000MM03", "2001MM12") # March 2000 and Dec
2001
              , CPI     = "000000"      # Category code for total
              )

# combine either this
cbs_get_data( id      = "7196ENG"      # table id
              , Periods = has_substring("JJ") | "2000MM01" # all years and
Jan 2001
              , CPI     = "000000"      # Category code for total
              )

# or this: note the "eq" function
cbs_get_data( id      = "7196ENG"      # table id
              , Periods = eq("2000MM01") | has_substring("JJ") # Jan 2000 and
all years
              , CPI     = "000000"      # Category code for total
              )

## End(Not run)
```

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[Package *cbsodataR* version 0.5.1 [Index](#)]