**P\_RPT**

Description:

Macro producing proc report step for standardised reporting dataset.

Capabilities are:

* Produce reports in ODS and RTF locations.
* Report can have sections and panels to define different parts of a report.
* Whole panel or single line indentation.
* Optional labels for sections and panels.
* Style options for rows, bold text and border lines.
* Multiple level across variables can be used.
* Combination of numeric and character result variables.

Assumption:

There is an assumption that "long" tfl data has been used, this is when there is one record per each value of the across variable. PROC REPORT then creates a column for each value of an across variable, multiple across variables can be used.

The input dataset can contain the following variables, the variables that are required are noted. All variables can contain blank or missing records.

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| --- | --- | --- | --- |
| **Required** | **Variable** | **Type** | **Description** |
|  | section | Numeric | Numeric ordering of the section, this can be missing. |
|  | sectionlabel | Character | Label displayed for section, this can be missing. |
|  | panel | Numeric | Numeric ordering of the panel within the section. |
|  | panellabel | Character | Label displayed for the panel, this can be missing. |
|  | panelopt | Character | Panel options:   * Indent level for whole panel, if missing no panel indentation occurs. |
| Yes | row | Numeric | Numeric ordering variable for row within panel. |
|  | rowlabel | Character | Label displayed for row, this can be missing. |
|  | rowopt | Character | Row options:   * indent level for the row label * row text bold (1 for bold, missing for not bold) * row top border (1 for border, missing for none).   Each must be separated by a “+”.  E.g level 1 indentation, bold text and no top border would have rowopt = “1+1+ ”.  No indentation, bold text and no top border would have rowopt = “ + 1+ “. |
| Yes | &avar. (e.g TRTP) | Character | Across variables. There should be one variable corresponding to each variable referenced by avar in macro call. |
| Yes | &resultvar. (e.g num1, num2, str1m str2) | Character or Numeric | Result variables. There should be one variable corresponding to each variable referenced by resultvar in macro call. |
|  | &addvar. (e.g page, linebrk.) | Numeric | Any additional variables not printed. This is expect to be variables used for page breaking or line breaking in a dataset. |

The macro parameter values for the macro are:

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| --- | --- | --- | --- |
| **Required** | **Parameter Name** | **Description** | **Comment** |
| Yes | inds | Input dataset name | This is expected to follow the tfl dataset structure defined above. |
|  | outds | Output dataset name |  |
|  | flws | Format/label/where statement(s) to execute within proc report. | This is inserted into the proc step as is and thus must result in complete statement/s including semicolons. |
| Yes | avar | Name of across variables, if multiple are used then separate by space, if multiple layers used separate by comma. | E.G avar = TRTP, base for a shift table of treatment and baseline record. |
|  | aorder | Ordering for across variable. Default of 'data PreLoadFmt' will order by appearance of values in data if no format is applied. If a format is applied then the order of the values in the format will be used first followed by any unformatted values (in the order they appear in the data. Use a NotSorted format for fine control over column order.  Use 'formatted' for default proc report behaviour. See SAS documentation for more details. |  |
| Yes | resultvar | List the result variables for each across variable. These can be both numeric and character and must be listed in the order of required appearance. |  |
|  | addvar | Any additional variables in the dataset that are not printed such as variable to control linebreaks. |  |
|  | rowlabelheader | Header for the rowlabel column. Can be missing. |  |
| Yes | rowlabelwidth | Width of rowlabel column. |  |
| Yes | colwidths | Widths for reporting columns if using multiple result variables then list the widths for individual column separated by “+” |  |
|  | linebreak | variable to specify a line break before. This can be missing but if populated a by line must be provided in FLWs to see an effect when groups cross over pages. |  |
|  | sectionbreak | Specifies style for section breaks: No, Line or Page.  If (upcase of first character) = L then formats section label line with a bold top border.  If (upcase of first character) = P then includes a "break after Section / page;" statement. Otherwise does neither. |  |
| Yes | dset | Specifies the destination of output. This can be ODS or RTF.  ODS = Uses only ODS formatting [default]. (Can only do first line indents.)  RTF = Uses &escapevar.R/RTF formatting. (Can do left margin indents but renders without indentation to other destinations. |  |
|  | rptoptions | For additional study specific options. | Expected to be defined in initial set up of study area. Can be missing. |
| Yes | split | Split variable used in the proc report. | Expected to be defined in initial set up of study area but can be changed if needed for an individual output. |
| Yes | escapevar | ODS escape variable used. | Expected to be defined in initial set up of study area but can be changed if needed for an individual output. |
|  | tidyup | Set to 0 to turn off tidy up so temporary work datasets are kept, or 1 to “tidy up” and delete the datasets at the end of the macro. |  |