%xumrgcs

Overview

The `%xumrgcs` macro merges Supplemental Qualifiers (SUPP--) and Comments (CO) datasets with their parent SDTM datasets. It handles multiple input datasets, automatically determines identifier variables and their types, and performs appropriate data type conversions for merging.

Version Information

- Version: 1.0
- Last Updated: 22AUG2022
- Author: Atorus Research

Dependencies

- SAS Version: SAS 9.4 V9
- Required Datasets:
  - Parent SDTM dataset(s) in the source library
  - SUPP-- datasets (if supp=Y)
  - CO dataset (if co=Y)
- No macro dependencies

Parameters

- **inds** (required): Space-separated list of input dataset names to process.
- **sourcelib** (required): Name of the library containing input datasets.
- **supp** (optional): Flag determining whether to merge SUPP-- datasets. Default: Y.
- **co** (optional): Flag determining whether to merge CO dataset. Default: Y.
- **debug** (optional): Flag determining whether to retain temporary datasets. Default: N.

Return Values/Output

- Creates new datasets with naming convention:
  - `[dataset]_supp` when only SUPP-- is merged
  - `[dataset]_co` when only CO is merged
  - `[dataset]_supp_co` when both are merged
- Output datasets contain:
  - All variables from the parent dataset
  - Transposed supplemental qualifier variables (if supp=Y)
  - Comment variables (COVALx) for the domain (if co=Y)
- Log messages for processing status and any errors

Processing Details

1. Parameter validation:
   - Checks for required parameters

    - Validates Y/N flags
    - Ensures at least one of supp/co is Y
2. For each input dataset:
    - Verifies dataset existence
    - Gets domain name from dataset
3. SUPP-- processing (if supp=Y):
    - Identifies IDVAR and its type
    - Transposes SUPP-- data by QNAM
    - Converts IDVARVAL to match parent dataset type
    - Merges with parent dataset
4. CO processing (if co=Y):
    - Filters CO for relevant domain
    - Identifies IDVAR and its type
    - Converts IDVARVAL to match parent dataset type
    - Merges with parent or SUPP-merged dataset

Examples

```
/* Merge both SUPP and CO for LB and AE domains */
%xumrgcs(lb ae, sdtm, supp=Y, co=Y);

/* Merge only SUPP for PR domain */
%xumrgcs(pr, sdtm, supp=Y, co=N);

/* Merge only CO for multiple domains with debug mode */
%xumrgcs(ae cm vs, sdtm, supp=N, co=Y, debug=Y);
```

Common Issues and Solutions

1. **Missing Supplemental Dataset**
    - Error: "SUPP[domain] was not found in [library] library"
    - Solution: Verify SUPP-- dataset exists for the domain
2. **Missing CO Dataset**
    - Error: "CO was not found in [library] library"
    - Solution: Ensure CO dataset exists in the source library
3. **No Comments for Domain**
    - Warning: "CO has no comments for [domain] domain"
    - Solution: Verify if comments are expected for the domain

Notes and Limitations

1. Both supp and co parameters cannot be N simultaneously.
2. The macro handles both character and numeric ID variables automatically.

3. For SUPP-- merging, each domain must have its corresponding SUPP[domain] dataset.
4. For CO merging, a single CO dataset contains comments for all domains.
5. Output dataset names reflect the types of data merged.

See Also

- `%xusupp`: Creates supplemental qualifier datasets
- `%xuload`: Loads SDTM datasets
- `%xusplit`: Splits datasets by specified criteria

Change Log

Version 1.0 (22AUG2022)

- Initial release
- Support for multiple input datasets
- Automatic handling of ID variable types
- Flexible SUPP/CO merging options