

%kqucomp

Overview

The `%kqucomp` macro performs dataset comparisons between production and QC versions of clinical trial datasets. It supports comparison of main datasets along with their associated supplemental qualifiers (SUPP--) and comments datasets, making it particularly useful for SDTM and ADaM dataset validation.

Version Information

- Version: 1.0
- Last Updated: 20AUG2021
- Author: Atorus Research

Dependencies

- SAS Version: SAS 9.4 V9
- Required Global Variables:
 - `domain`: Current domain being processed
 - `[domain]sortstring`: Sort variables for the domain (created automatically by xtorder.sas)
- No macro dependencies

Parameters

Parameter	Required	Default	Description
base	No	<code>&domain</code>	Base dataset name for comparison
qc	No	qc	Prefix for QC dataset name
id	No	<code>&&&domain.sortstring</code>	List of ID variables for comparison
prod_lib	No	sdm	Production library name
qc_lib	No	work	QC library name
crit	No	-	PROC COMPARE criterion specification
supp	No	N	Flag to compare supplemental qualifier datasets
com	No	N	Flag to compare comments datasets

Return Values/Output

- Generates PROC CONTENTS output for:
 - Base dataset
 - SUPP-- dataset (if supp=Y)
 - Comments dataset (if com=Y)
- Produces PROC COMPARE results showing:
 - Variable differences

- Value differences
- Attribute differences
- Observation differences
- Log messages indicating:
 - Missing parameters
 - Dataset existence
 - Comparison results

Processing Details

1. Parameter validation:

- Checks required parameters
- Verifies parameter values
- Validates dataset existence

2. Main dataset comparison:

- Executes PROC CONTENTS
- Performs PROC COMPARE
- Uses specified ID variables
- Applies comparison criteria

3. Supplemental qualifier comparison (if supp=Y):

- Checks for SUPP-- datasets
- Verifies observation counts
- Compares using standard SUPP keys
- Processes only if data exists

4. Comments dataset comparison (if com=Y):

- Checks for _comm datasets
- Verifies observation counts
- Compares using standard keys
- Processes only if data exists

Examples

```
/* Basic comparison of LB domain */
%kqucomp(base=LB, prod_lib=sdtm, supp=Y, com=Y);

/* Custom comparison with specific criteria */
%kqucomp(base=ADSL,
         qc=validation,
         id=studyid usubjid,
         prod_lib=adam,
         qc_lib=valid,
         crit=0.00001);
```

```
/* Compare only main dataset with default settings */  
%kqucomp(base=VS,  
         prod_lib=sdm);
```

Common Issues and Solutions

1. Missing Parameters

- Error: "[parameter] is required parameter and should not be NULL"
- Solution: Provide all required parameters

2. Empty Datasets

- Issue: No comparison results for SUPP/comments
- Solution: Verify datasets contain observations

3. ID Variables

- Issue: Unexpected comparison results
- Solution: Verify correct ID variables specified

Notes and Limitations

1. Dataset handling:

- Automatic SUPP-- dataset detection
- Standard SDTM/ADaM naming conventions
- Empty dataset handling
- Library-specific processing

2. Comparison features:

- Full dataset comparison
- Supplemental qualifier support
- Comments dataset support
- Flexible ID variable specification

3. Performance considerations:

- Processes only non-empty datasets
- Separate comparisons for each component
- Standard PROC COMPARE output

See Also

- [%kqtlfcomp](#): TLF dataset comparison
- [%xusupp](#): Supplemental qualifier creation
- Other validation macros

Change Log

Version 1.0 (20AUG2021)

- Initial release
- Basic comparison functionality
- SUPP-- dataset support
- Comments dataset support