

Macro to Conduct Consistency Checks

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Introduction

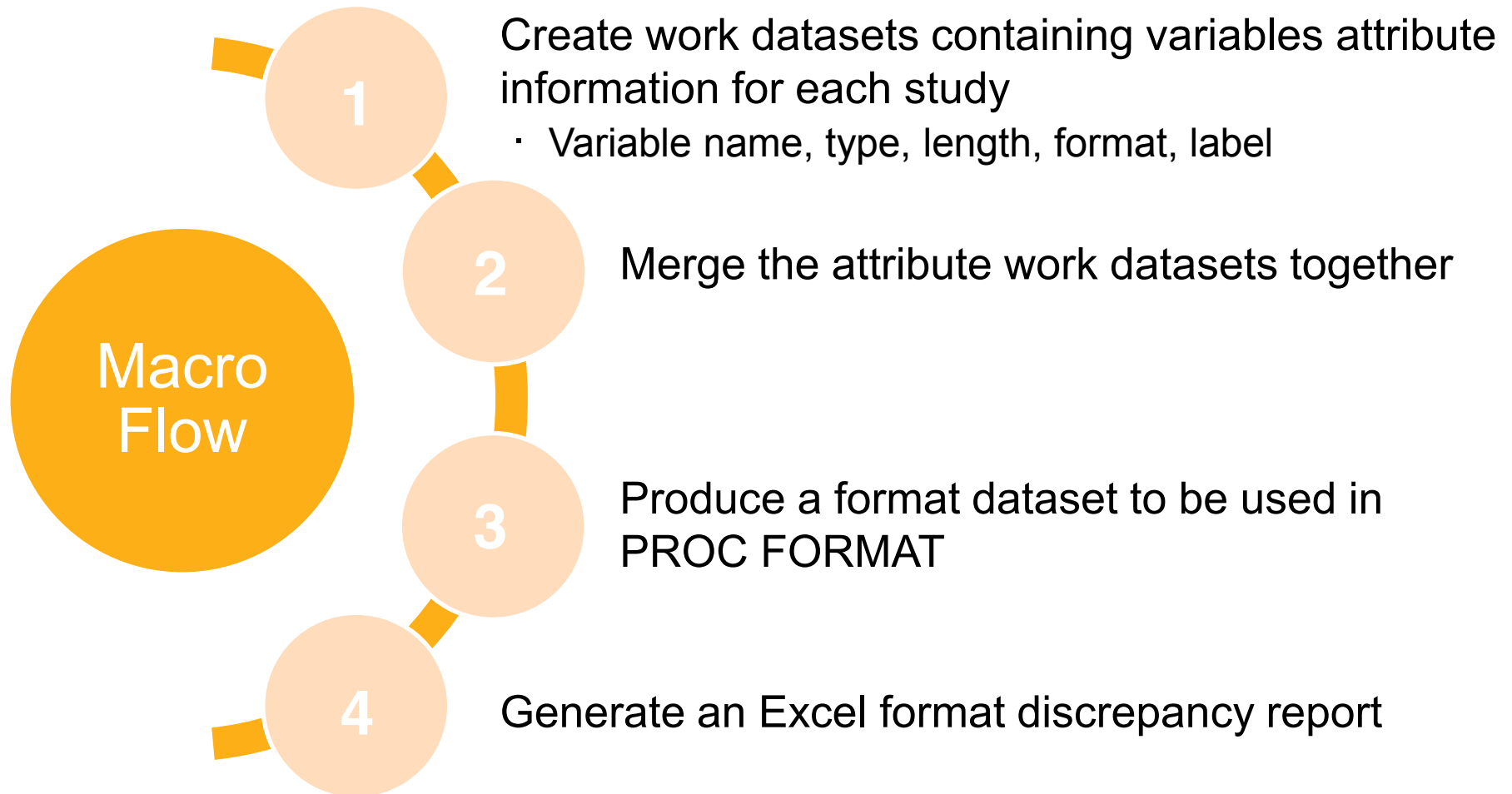
- New Data Standards
- Inconsistent Implementation



The Paper “Macro to Conduct Consistency Checks”

- Macro parameter validation
- Dataset attributes
- Identify discrepancies
- Dynamic format
- Discrepancy report

Macro Flow



Outcome

Attribute Consistency Checks for Studies (Sty1, Sty2, Sty3, Sty4)

Member ▾	Variable ▾	Type ▾	Length ▾	Label ▾	Format ▾	Members Contributing Attributes ▾
ADSL	AGE	num	8	Age		Sty1 Sty2 Sty3 Sty4
ADSL	AGEU	char	20	Age Units	\$AGEU.	Sty1
ADSL	ARM	char	80	Description of Planned Arm		Sty1 Sty2 Sty3 Sty4
ADSL	COMPLFL	char	20	Completers Population Flag		Sty1 Sty2 Sty3 Sty4
ADSL	ENRFL	char	20	Enrolled Population Flag		Sty1 Sty2 Sty3 Sty4
ADSL	FASFL	char	20	Full Analysis Set Population Flag		Sty1 Sty2 Sty3 Sty4
ADSL	ITT	char	20	Intent-To-Treat Population Flag		Sty1
ADSL	ITTFL	char	20	Intent-To-Treat Population Flag		Sty1
ADSL	PPROTFL	char	20	Per-Protocol Population Flag		Sty1 Sty2 Sty3 Sty4
ADSL	RACE	char	20	Race		Sty2 Sty4
ADSL	RACE	char	20	Race	\$RACE.	Sty1 Sty3
ADSL	RACEGR1	char	80	Pooled Race Group 1		Sty1 Sty2 Sty3 Sty4
ADSL	RACEGR1N	num	8	Pooled Race group 1 (N)		Sty1 Sty2 Sty3 Sty4
ADSL	RANFL	char	20	Randomized Population Flag		Sty1 Sty2 Sty3 Sty4
ADSL	SAFFL	char	20	Safety Population Flag		Sty1 Sty2 Sty3 Sty4
ADSL	SEX	char	20	Sex	\$SEX.	Sty1 Sty2 Sty3 Sty4
ADSL	SITEGR1	char	40	Pooled Site Group 1		Sty1 Sty2 Sty3 Sty4
ADSL	SITEGR1N	num	8	Pooled Site Group 1 (N)		Sty1 Sty2 Sty3 Sty4
ADSL	SITEID	char	20	Study Site Identifier		Sty1 Sty2 Sty3 Sty4
ADSL	STUDYID	char	40	Study Identifier		Sty1 Sty2 Sty3 Sty4
ADSL	SUBJID	char	40	Subject Identifier for the Study		Sty1 Sty2 Sty3 Sty4
ADSL	TPT1	char	80	Planned Treatment for Period 2		Sty3
ADSL	TRT01P	char	80	Planned Treatment for Period 1		Sty1 Sty2 Sty3 Sty4
ADSL	TRT01PN	num	8	Planned Treatment for Period 1 (N)		Sty1 Sty2 Sty3 Sty4
ADSL	TRT02P	char	80	Planned Treatment for Period 2		Sty1
ADSL	TRT02PN	num	8	Planned Treatment for Period 2 (N)		Sty1
ADSL	TRT1PN	num	8	Planned Treatment for Period 2 (N)		Sty3
ADSL	USUBJID	char	40			Sty2
ADSL	USUBJID	char	40	Unique Subject Identifier		Sty1 Sty3 Sty4

Legend:



Complete match



Partial match



No match

The Paper “Macro to Conduct Consistency Checks”

- Macro parameter validation
- Dataset attributes
- Identify discrepancies
- Dynamic format
- Discrepancy report

Identify discrepancies - Example

		Sty1	Sty2	Sty3	Sty4	DIS_FLG
ARRAY	TARG	2^0	2^1	2^2	2^3	
SEX		2^0 ✓	+ 2^1 ✓	+ 2^2 ✓	+ 2^3 ✓	= 15
ADSL	RACE	2^0 ✓	+ ✗	2^2 ✓	 ✗	= 5

Legend: ✓ : *IN=* Data Set Option in MERGE statement returns 1

✗ : *IN=* Data Set Option in MERGE statement returns 0

Identify discrepancies - Code

CODE

```
array targ [&num] _temporary_  
  ( %do i=0 %to %eval(&num-1);  
    %eval(2**&i)  
  %end ; ) ;
```

```
if in&k then dis_flg = dis_flg + targ(&k) ;
```

```
gtot=sum(%do J=1 %to %eval(&num - 1);  
  targ[&j],  
  %end;  
  targ[%eval(&num)]);
```

RESULT

```
array targ [4] _temporary_  
(20 21 22 23);
```

DIS_FLG=15 ($2^0+2^1+2^2+2^3=15$)

DIS_FLG=5 ($2^0+2^2=5$)

GTOT=15 ($2^0+2^1+2^2+2^3=15$)

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ADSL	TRT02PN	num	8	Planned Treatment for Period 2 (N)		Sty1
ADSL	TRT1PN	num	8	Planned Treatment for Period 2 (N)		Sty3
ADSL	USUBJID	char	40			Sty2
ADSL	USUBJID	char	40	Unique Subject Identifier		Sty1 Sty3 Sty4

Legend: Complete match Partial match No match

THANKS FOR YOUR ATTENTION!

QUESTIONS & ANSWERS

