The Dataset Diet - Transforming Fat to Thin
By Kathryn Wright
Senior SAS Programmer

<table>
<thead>
<tr>
<th>Subjid</th>
<th>Ae1</th>
<th>Adverse1</th>
<th>Related1</th>
<th>Severity1</th>
<th>Ae2</th>
<th>Adverse2</th>
<th>Related2</th>
<th>Severity2</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>1</td>
<td>cough</td>
<td>yes</td>
<td>mild</td>
<td>t</td>
<td>flu</td>
<td>no</td>
<td>severe</td>
</tr>
</tbody>
</table>

Adverse Events

THIN

Array

FAT

Simple Do Loop

Complex Do Loop

Macro efficacy:
%macro adverse;
   data adverse (keep = subjid adverse related severity);
   set rawdata.adverse;
   %do a = 1 %to 2;
     if aea &= 1 then do;
       adverse = adversea;
       related = relateda;
       severity = severitya;
     end;
   %end;
   run;
%mend adverse;

%macro efficacy;
   proc contents data=rawdata.rawdata noprint out=conts
   (keep=name
     where =(upcase(name) in 'SBP', 'DBP', 'WEIGHT', 'HEIGHT', 'PULSE'));
   run;
   proc sql noprint;
     select count (distinct name) into: totnames
     from conts;
     select distinct name into: name1 - : name&totnames
     from conts;
   quit;
%mend efficacy;

%efficacy;

%efficacy;

data adverse;
   set rawdata.rawdata;
   array adverse[i] adverse1 - adverse2;
   array related[i] related1 - related2;
   array severity[i] severity1 - severity2;
   %do i = 1 to 2;
     adverse = adverse[i];
     related = related[i];
     severity = severity[i];
     output;
   %end;
run;

%macro efficacy;
   proc contents data=rawdata.rawdata
   out = vitals
   (keep = subjid
     col1);
   var sbp dbp height weight pulse;
   by subjid;
   run;
%mend efficacy;

%efficacy;

data vitals;
   set rawdata.rawdata;
   array vitals[i] sbp - pulse;
   %do i = 1 to 5;
     test = "array[i];"
     result = array[i];
     output;
   %end;
run;

Proc Transpose

Array

FAT

Vital Signs

THIN

Proc transpose data=rawdata.rawdata
out = vitals
(keep = subjid name_col1);
var sbp dbp height weight pulse;
by subjid;
run;

Proc transpose data=rawdata.rawdata
out = vitals
(keep = subjid name_col1);
var sbp -- pulse;
by subjid;
run;