



The Dataset Diet - Transforming Fat to Thin

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Subjid	Ae1	Adverse1	Related1	Severity1	Ae2	Adverse2	Related2	Severity2
0001	1	cough	yes	mild	1	flu	no	severe

Adverse Events

THIN

Simple Do Loop

```
%macro adverse;
  data adverse (keep = subjid
    adverse related severity);
    set rawdata.adverse;
    %do a = 1 %to 2;
      if ae&a = 1 then do;
        adverse = adverse&a;
        related = related&a;
        severity = severity&a;
        output;
      end;
    %end;
  run;
%mend adverse;
%adverse;
```

Array

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

FAT

Subjid	Init	DOB	Sex	Drugname	Adverse1	Related1	Severity1	Adverse2	Related2	Severity2	SBP	DBP	Pulse	Height	Weight	Complete	Conmed1	Dose1
0001	ABC	10Feb1963	Male	Testdrug	Cough	yes	mild	flu	no	severe	120	80	75	175	80	Yes	Aspirin	100mg

FAT

Complex Do Loop

```
%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;

  data scrfddata.vitals (keep = subjid test result);
    set rawdata.rawdata;
    %do loop=1 %to &totnames;
      test = "&name&loop";
      result = &name&loop;
      output;
    %end;
  run;
%mend efficacy;
%efficacy;
```

Array

```
data vitals;
  set rawdata.rawdata;
  array vital{5} sbp--pulse;

  do i = 1 to 5;
    test = "array{i}";
    result = array{i};
    output;
  end;
run;
```

Proc Transpose

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

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

Vital Signs

THIN

Subjid	SBP	DBP	Pulse	Height	Weight
0001	120	80	75	175	80