

Generation and maintenance of the data specification document



Main issues

- Time



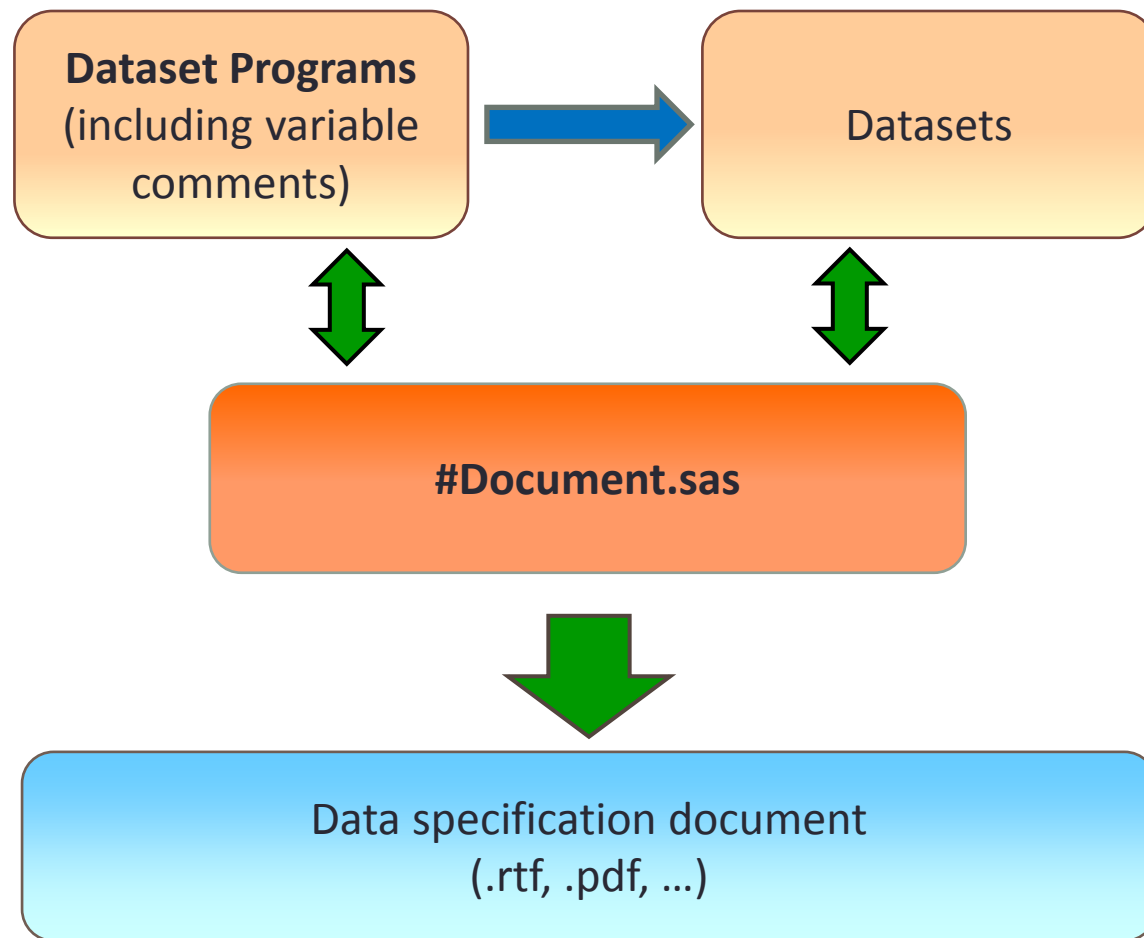
- Update difficulties



- Margin for errors



Solution



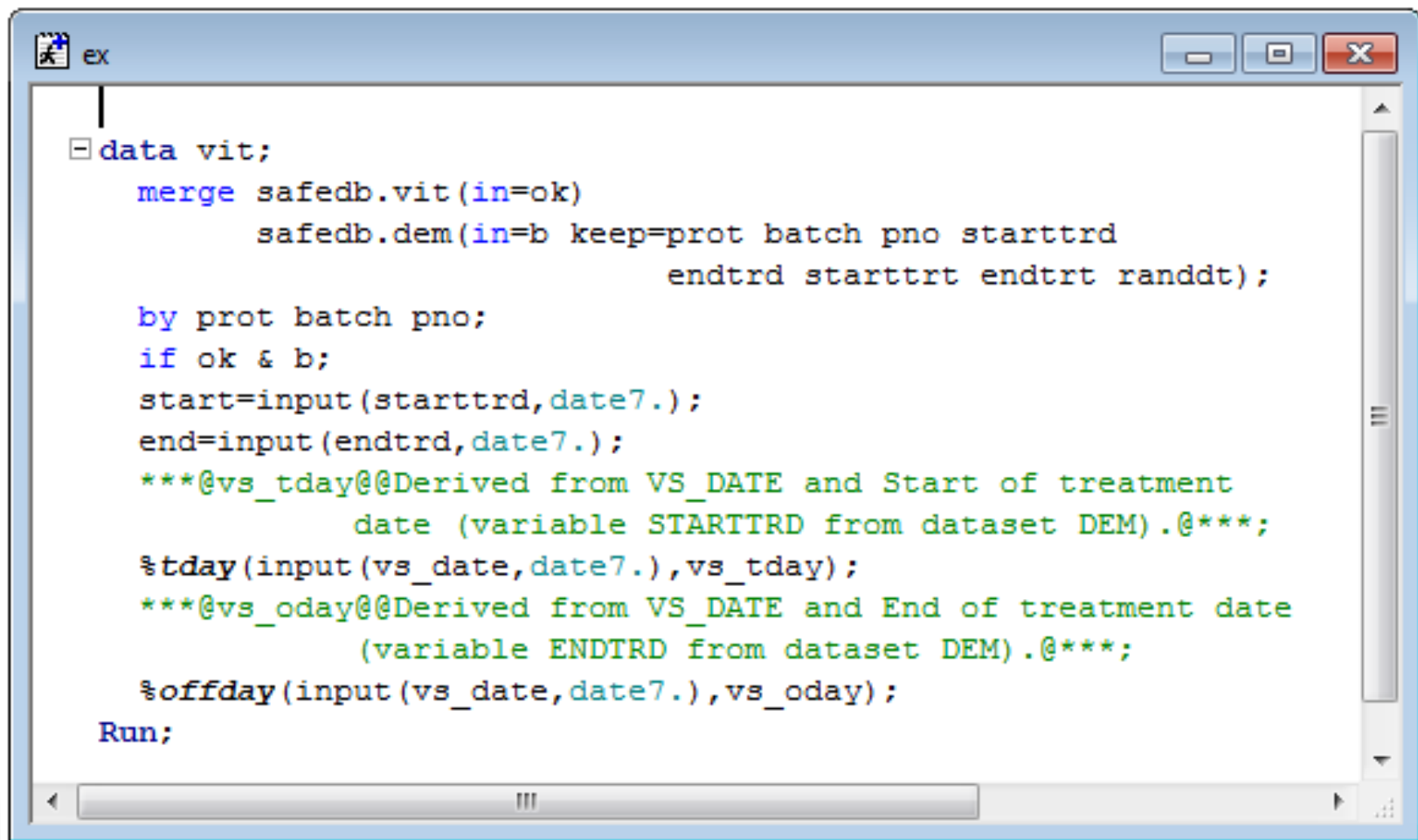
Variable comments

```
***@variable-name@@comments@***;
```

Or

```
/**@variable-name@@comments@**/
```

Example: standard variables



```
data vit;
  merge safedb.vit(in=ok)
        safedb.dem(in=b keep=prot batch pno starttrd
                    endtrd starttrt endtrt randdt);

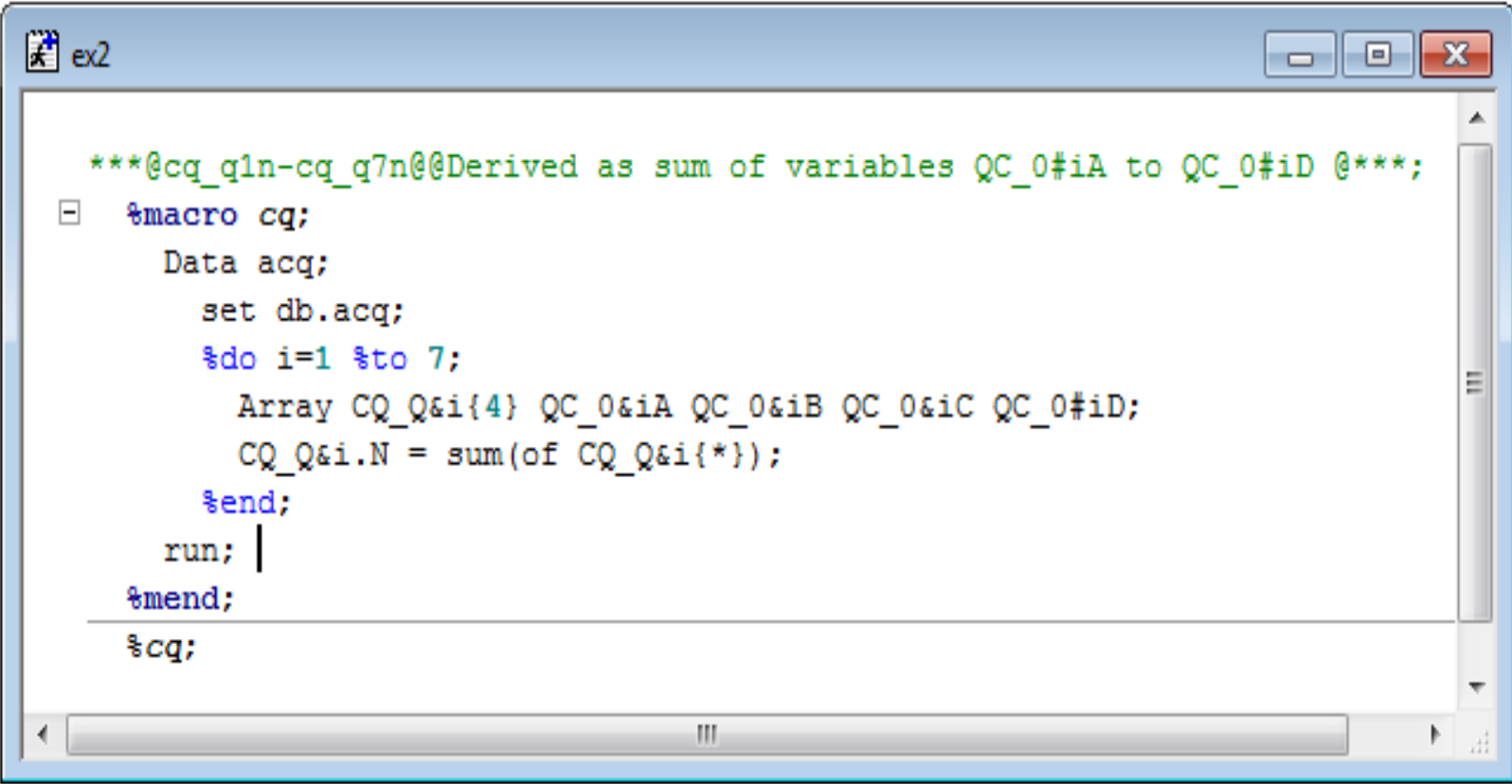
  by prot batch pno;
  if ok & b;
  start=input(starttrd,date7.);
  end=input(endtrd,date7.);
  ***@vs_tday@@Derived from VS_DATE and Start of treatment
      date (variable STARTTRD from dataset DEM).@***;
  %tday(input(vs_date,date7.),vs_tday);
  ***@vs_oday@@Derived from VS_DATE and End of treatment date
      (variable ENDTRD from dataset DEM).@***;
  %offday(input(vs_date,date7.),vs_oday);
Run;
```

Example: output

***** *VIT : Vital signs* *****

variable	label	type	length	comment
BATCH	SITE CODE	num	4	
PNO	PATIENT CODE	num	4	
PROT	PROTOCOL CODE	char	15	
VS_DATE	VITAL SIGN DATE OF MEASUREMENT	char	7	
VS_VIS	VISIT NUMBER	num	8	
VS_VISD	VISIT DESCRIPTION	char	40	
VS_TDAY	VITAL SIGN STUDY T. DAY	num	8	Derived from VS_DDATE and Start of treatment date (variable STARTTRD from dataset DEM).
VS_ODAY	VITAL SIGN OFF STUDY T. DAY	num	8	Derived from VS_DDATE and End of treatment date (variable ENDTRD from dataset DEM).
VS_SBP	SYSTOLIC BLOOD PRESSURE	char	6	
VS_DBP	DIASTOLIC BLOOD PRESSURE	char	6	
VS_WGHT	WEIGHT	char	6	
VS_WGHTU	WEIGHT UNIT	char	4	
VS_SBP_N	SYSTOLIC BLOOD PRESSURE (Derived)	num	8	Numeric value of VS_SBP
VS_DBP_N	DIASTOLIC BLOOD PRESSURE (Derived)	num	8	Numeric value of VS_DBP
VS_WGHT_N	WEIGHT (Derived)	num	8	Weight in Kg. Derived from VS_WGHT and VS_WGHTU variable.
VS_SBPB	SYSTOLIC BLOOD PRESSURE BASELINE	num	8	Derived from VS_SBP_N. Last chronological value prior or on treatment day. See SAP section 6.2.3.2
VS_DBPB	DIASTOLIC BLOOD PRESSURE BASELINE	num	8	Derived from VS_DBP_N. Last chronological value prior or on treatment day. See SAP section 6.2.3.2
VS_WGHTB	WEIGHT BASELINE	num	8	Derived from VS_WGHT_N. Last chronological value prior or on treatment day. See SAP section 6.2.3.2
VSSBPCH	SYSTOLIC BLOOD PRESSURE CHANGE FROM BASELINE	num	8	If baseline and value non missing then equal VS_SBP_N - VS_SBPB
VSDBPCH	DIASTOLIC BLOOD PRESSURE CHANGE FROM BASELINE	num	8	If baseline and value non missing then equal VS_DBP_N - VS_DBPB
VS_WGHTCH	WEIGHT CHANGE FROM BASELINE	num	8	If baseline and value non missing then equal VS_WGHT_N - VS_WGHTB

Example: iterative variable



```
***@cq_q1n-cq_q7n@@Derived as sum of variables QC_0#iA to QC_0#iD @***;  
%macro cq;  
  Data acq;  
    set db.acq;  
    %do i=1 %to 7;  
      Array CQ_Q&i{4} QC_0&iA QC_0&iB QC_0&iC QC_0#iD;  
      CQ_Q&i.N = sum(of CQ_Q&i{*});  
    %end;  
  run;  
%mend;  
%cq;
```

Advantages

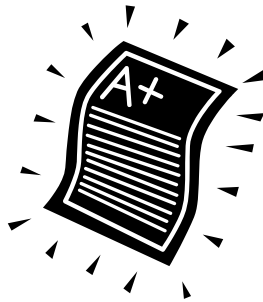
- Substantial reduction of time



- Easy updates



- Lower chance of errors



Questions



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