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* PRE-PROCESSING ;
DATA: studybase
idnr sex birthdate entry exit exposed
  1  1  1983.0  2000.0 2008.0  1

DATA: c
idnr disease cancerdate icd7
  1  1  2003.5  2009
  1  2  2005.5  1437

* STRATIFICATION AND AGGREGATION ;
%stratify(data=studybase out=b
  outcomes=c eventdat=closetook
  mode=c eventtype=disease noeventvalue=0
  eventtime=cancerdate subject=idnr
  scale=1 granularity=0.001;
  eventid idnr icd7 cancerdate;
  class sex exposed;
  axis age o=birthdate c=0 to 90 by 5);

DATA: b
sex exposed disease age events pyrs
  1  1  0  20  0  0.501
  1  1  0  15  0  3.000
  1  1  1  20  1  0.000

DATA: closetook
sex exposed idnr cancerdate icd7 disease age
  1  1  1  2003.5  2009  1  20

* POST-PROCESSING ;
data b; set b;
  if disease ne 0 then output;
  if disease=0 then do;
    do disease=1,2; output; end;
  end;
run;

DATA: b
sex exposed disease age events pyrs
  1  1  1  20  0  0.501
  1  1  2  20  0  0.501
  1  1  1  15  0  3.000
  1  1  2  15  0  3.000
  1  1  1  20  1  0.000

proc summary nway;
  class disease sex age exposed;
  var events pyrs;
  output out=comp(drop=_freq_ _type_) sum= ;
run;

DATA: comp
disease sex age exposed events pyrs
  1  1  15  1  0  3.000
  1  1  20  1  1  0.501
  2  1  15  1  0  3.000
  2  1  20  1  0  0.501

data comp; set comp; logpyrs=log(pyrs); run;

* ANALYSIS ;
proc genmod;
  class sex age exposed disease;
  model events=disease disease*sex disease*age
    exposed disease*exposed
    /d=p offset=logpyrs type1;
run;

```