

```

1  /*proc sort*/
2  proc import datafile="/home/u62009820/sasuser.v94/cancer.xlsx"
3  out=cancer
4  dbms=xlsx
5  ;
6
7  proc sort data=cancer out=sort_cancer;
8  by Gender;
9  proc print data=sort_cancer(obs=10);
10
11  /* proc sort OPTIONS(ascending descendin nodupkey)
12  NODUPKEY: This option removes duplicate observations based on the entire sort key (variables specified in the BY sta
13  NODUP: This option removes all duplicate observations based on all variables in the dataset, not just those specific
14  DUPKEY: This option identifies duplicate observations based on the entire sort key. The resulting dataset will conta
15  DUP: This option identifies duplicate observations based on all variables in the dataset. Similar to DUPKEY, the res
16
17  */
18
19  proc sort data=cancer out=sort_desc;
20  by descending level 'Air Pollution';
21  proc print data=sort_desc;
22
23  proc sort data=cancer nodupkey out=noduplicate;
24  by age level;
25  proc print data=noduplicate;
26
27  proc sort data=cancer nodup out=nodup;
28  by level;
29  proc print data=nodup;
30
31  proc sort data=cancer dupout=sorted;
32  by _all_ ;
33
34
35
36
37
38  /*proc Freq*/
39  proc freq data=cancer;
40  table level/nopercent nocum; /* to remove other information than frequency
41
42
43  /*Two Dimention*/
44  /*proc Freq*/
45  proc freq data=cancer;
46  table level*age/nopercent norow nocol; /* to remove other information than frequency*/
47
48
49  /*Conditional Frequency*/
50  proc contents data=cancer noprint out=variable(keep=name);
51  proc print data=variable;
52
53  proc freq data=cancer ;
54  table age/nopercent nocum;
55  where gender=2
56  ;
57
58  /*Transpose*/
59  data birth;
60  set sashelp.birthwgt;
61  proc print data=birth(obs=10);
62
63  proc sort data=birth nodupkey out=sort_birth;
64  by race;
65
66  proc transpose data=sort_birth prefix=trans_;
67  by race;
68  id married;
69  var AgeGroup;
70  run;
71
72
73  data class;
74  set sashelp.class;
75  proc sort data=class nodupkey out=sort_class;
76  by name;
77
78  proc transpose data=sort_class prefix=trans_ suffix=_done;
79  by name; /*fix: should be unique and sorted in ascending order*/

```

```
80 id sex; /*values converted in columns*/
81 var age; /* value varies in columns*/
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