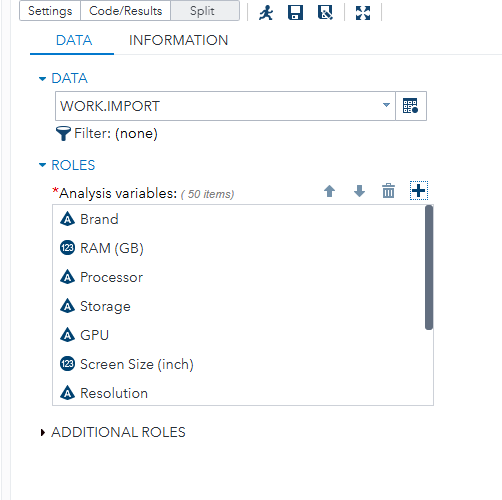
**BA EXPERIMENT 3**

**DESCRIBE MISSING DATA:**



CODE:

ods noproctitle;

proc format;

value \_nmissprint low-high="Non-missing";

value $\_cmissprint " "=" " other="Non-missing";

run;

proc freq data=WORK.IMPORT;

title3 "Missing Data Frequencies";

title4 h=2 "Legend: ., A, B, etc = Missing";

format 'RAM (GB)'n 'Screen Size (inch)'n 'Battery Life (hours)'n

'Weight (kg)'n 'Price ($)'n \_nmissprint.;

format Brand Processor Storage GPU Resolution

'Operating System'n $\_cmissprint.;

tables Brand 'RAM (GB)'n Processor Storage GPU 'Screen Size (inch)'n

Resolution 'Battery Life (hours)'n 'Operating System'n 'Weight (kg)'n

'Price ($)'n / missing nocum;

run;

proc freq data=WORK.IMPORT noprint;

table Brand \* 'RAM (GB)'n \* Processor \* Storage \* GPU \* 'Screen Size (inch)'n

\* Resolution \* 'Battery Life (hours)'n \* 'Operating System'n \* 'Weight (kg)'n

\* 'Price ($)'n / missing out=Work.\_MissingData\_;

format 'RAM (GB)'n 'Screen Size (inch)'n 'Battery Life (hours)'n

'Weight (kg)'n 'Price ($)'n \_nmissprint.;

format Brand Processor Storage GPU Resolution

'Operating System'n $\_cmissprint.;

run;

proc print data=Work.\_MissingData\_ noobs label;

title3 "Missing Data Patterns across Variables";

title4 h=2 "Legend: ., A, B, etc = Missing";

format 'RAM (GB)'n 'Screen Size (inch)'n 'Battery Life (hours)'n

'Weight (kg)'n 'Price ($)'n \_nmissprint.;

format Brand Processor Storage GPU Resolution

'Operating System'n $\_cmissprint.;

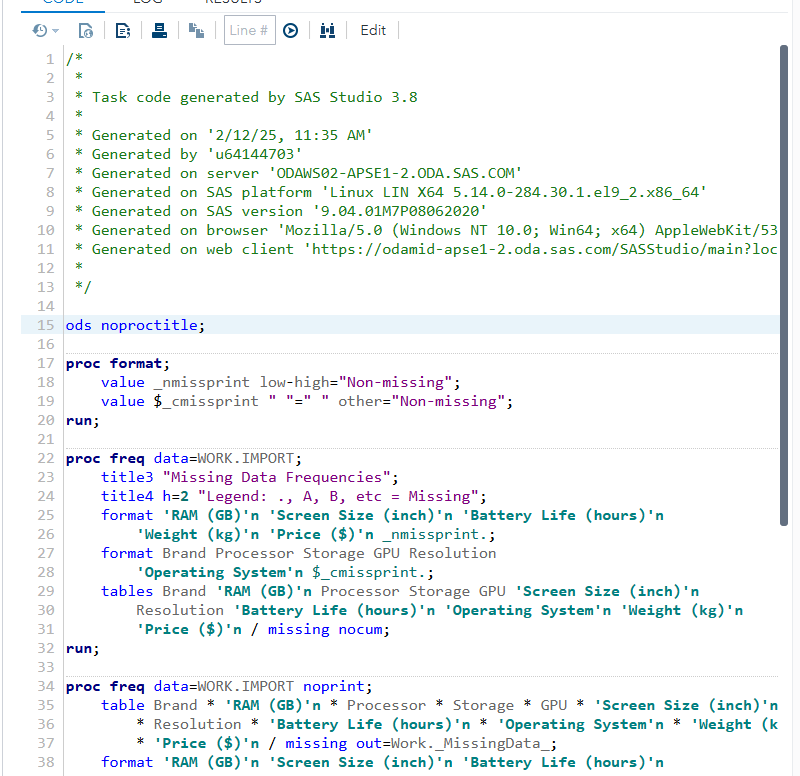
label count="Frequency" percent="Percent";

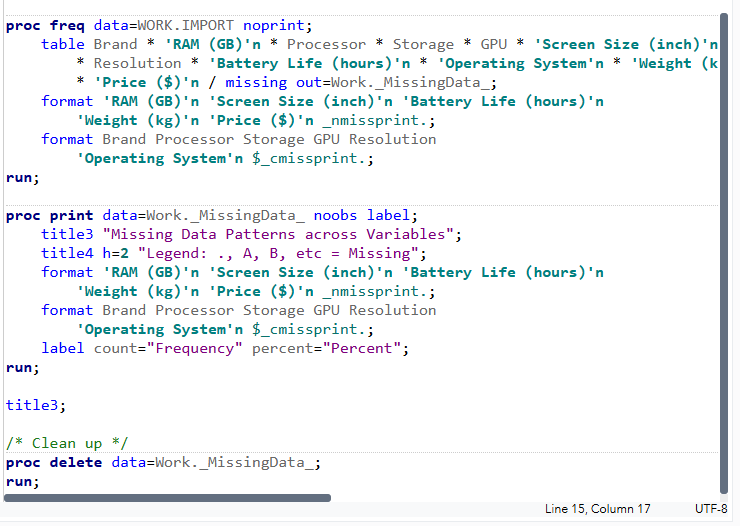
run;

title3;

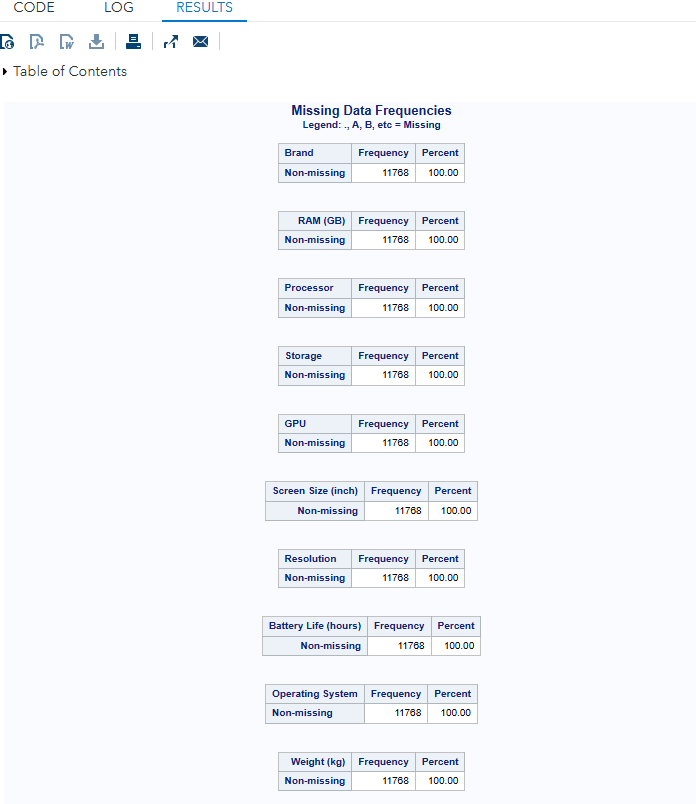
proc delete data=Work.\_MissingData\_;

run;



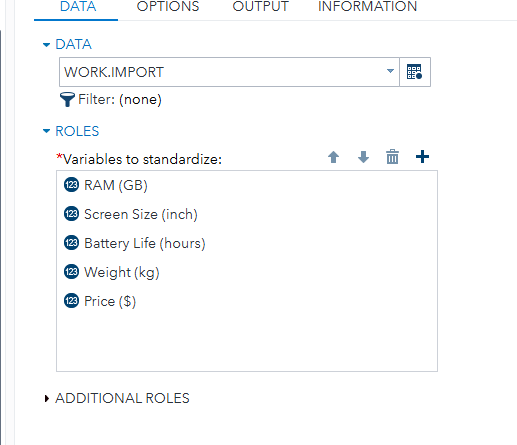


RESULTS:





**STANDARIZE DATA:**

****

CODE:

ods noproctitle;

proc stdize data=WORK.IMPORT method=std nomiss out=work.Stdize oprefix

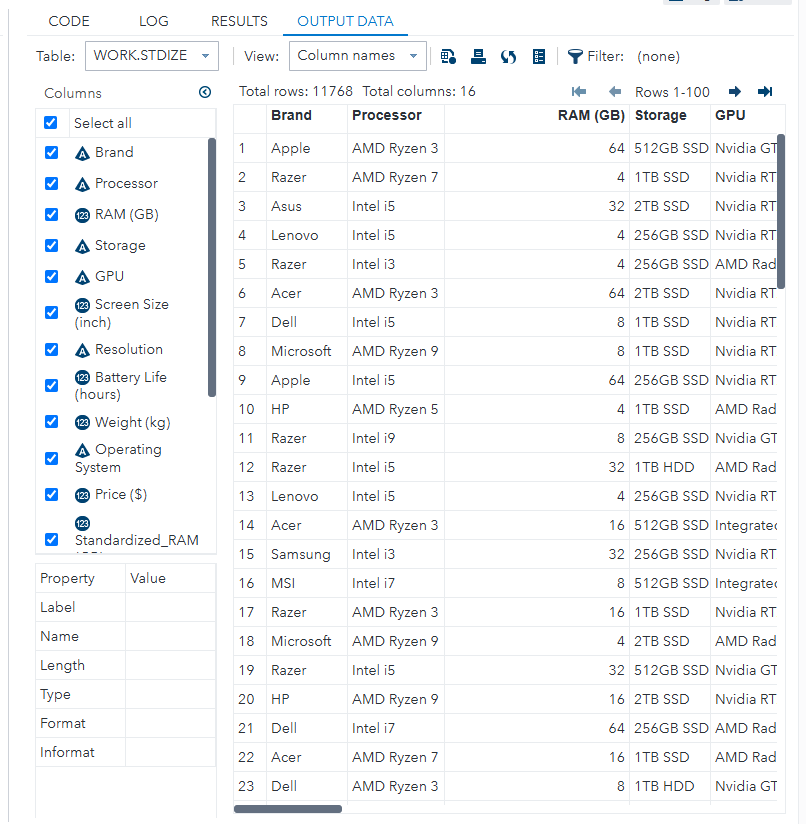
sprefix=Standardized\_;

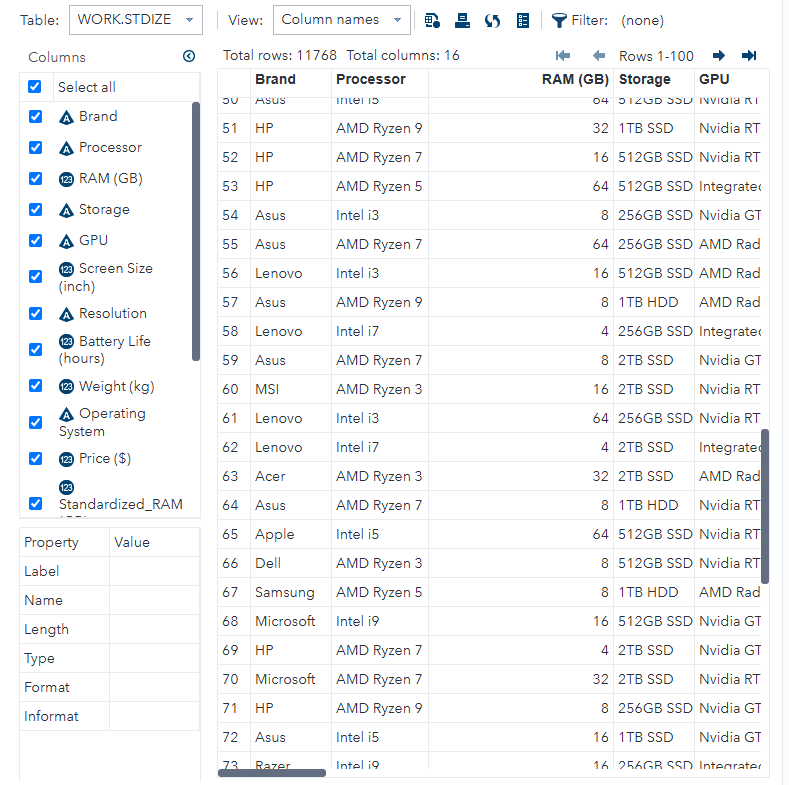
var 'RAM (GB)'n 'Screen Size (inch)'n 'Battery Life (hours)'n 'Weight (kg)'n

'Price ($)'n;

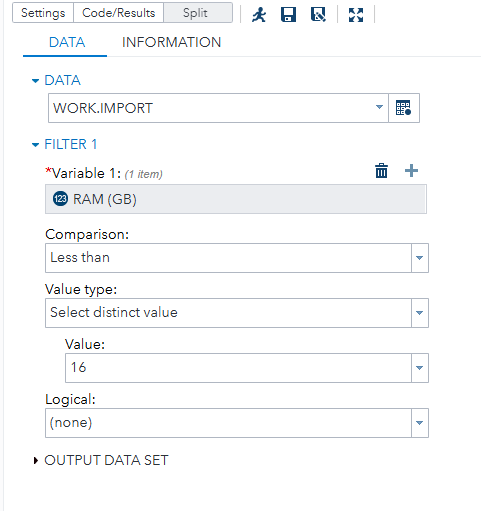
run;

OUTPUT DATA:





**FILTER DATA:**

****

INPUT:

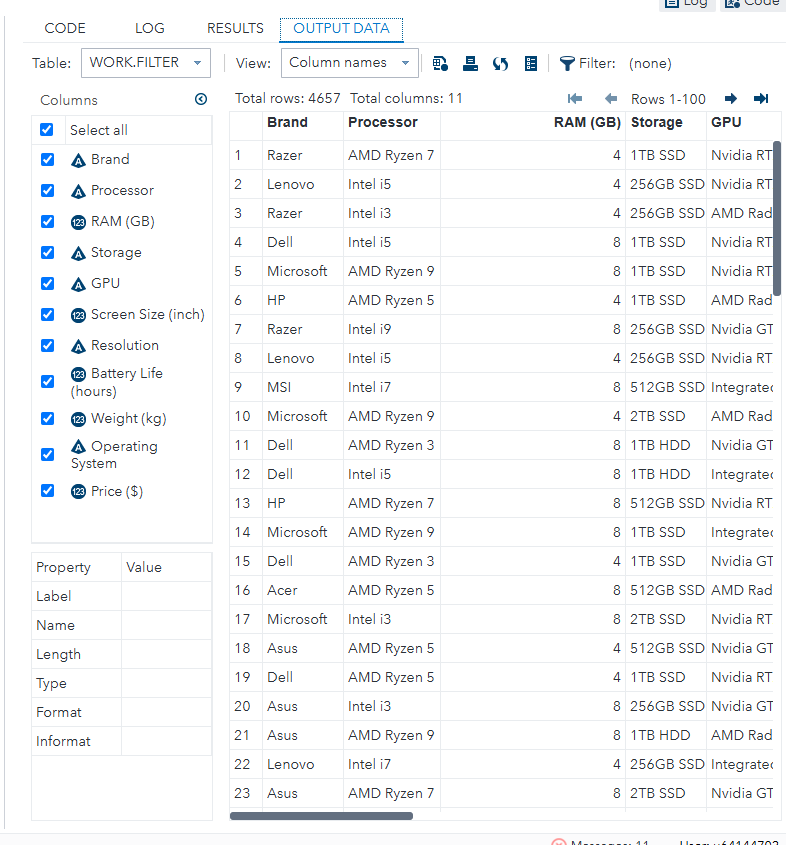
proc sql noprint;

create table work.filter as select \* from WORK.IMPORT where('RAM (GB)'n LT

input('16', BEST12.) );

quit;

OUTPUT DATA:



**GRAPH:**

INPUT:

ods graphics / reset width=6.4in height=4.8in imagemap;

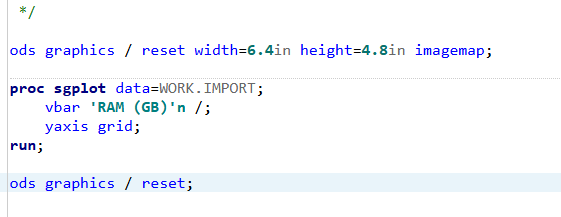
proc sgplot data=WORK.IMPORT;

vbar 'RAM (GB)'n /;

yaxis grid;

run;

ods graphics / reset;



RESULTS:

