%let path=/courses/d649d56dba27fe300/STA5067/SAS Data;  
libname orion "&path/orion";  
/\* 1.a \*/  
%let start=01Jan2007;  
%let stop=31Dec2007;  
proc means data=orion.order\_fact noprint;  
 var Total\_Retail\_Price;  
 output out=stats n=count mean=avg;  
 run;  
data \_null\_;  
 set stats;  
 call symputx('orders',count);  
 call symputx('average',avg);  
run;  
  
proc gchart data=orion.order\_fact;  
 vbar3d Order\_Type   
 / patternid=midpoint cframe=w shape=c discrete  
 sumvar=Total\_Retail\_Price type=mean ref=&average;  
 format Total\_Retail\_Price dollar4.;  
 label Total\_Retail\_Price='Average Order';  
 title1 h=1 "Report from &start to &stop";  
 title2 h=1 f=swiss "Orders this period: " c=b "&orders";  
 footnote1 h=1 f=swiss "Overall Average: " c=b   
 "%sysfunc(putn(&average,dollar4.))";  
run;  
quit;  
%put &orders;  
  
/\* 1.b \*/  
proc sql;  
select count(\*),mean(Total\_Retail\_Price)  
into :ORDERS,:AVERAGE  
from orion.order\_fact  
;  
quit;  
/\* 1.c \*/  
data \_null\_;  
%let ORDERS=%sysfunc(compress(&ORDERS));  
%let AVERAGE=%sysfunc(compress(&AVERAGE));  
%put &ORDERS;  
%put &AVERAGE;  
run;  
/\* 1.d \*/  
proc gchart data=orion.order\_fact;  
 vbar3d Order\_Type   
 / patternid=midpoint cframe=w shape=c discrete  
 sumvar=Total\_Retail\_Price type=mean ref=&average;  
 format Total\_Retail\_Price dollar4.;  
 label Total\_Retail\_Price='Average Order';  
 title1 h=1 "Report from &start to &stop";  
 title2 h=1 f=swiss "Orders this period: " c=b "&ORDERS";  
 footnote1 h=1 f=swiss "Overall Average: " c=b   
 "%sysfunc(putn(&AVERAGE,dollar4.))";  
run;  
quit;  
/\* 1.e \*/  
proc sql;  
select count(\*),mean(Total\_Retail\_Price),mean(Total\_Retail\_Price) format=dollar4.0  
into :ORDERS,:AVERAGE,:FMTAVG  
from orion.order\_fact  
;  
quit;  
%let FMTAVG=%sysfunc(compress(&FMTAVG));  
%put &FMTAVG;  
/\* 1.e \*/  
proc gchart data=orion.order\_fact;  
 hbar3d Order\_Type   
 / patternid=midpoint cframe=g shape=s discrete  
 sumvar=Total\_Retail\_Price type=mean ref=&average;  
 format Total\_Retail\_Price dollar4.;  
 label Total\_Retail\_Price='Average Order';  
 title1 h=1 "Report from &start to &stop";  
 title2 h=1 f=swiss "Orders this period: " c=b "&ORDERS";  
 footnote1 h=1 f=swiss "Overall Average: " c=b   
 "&FMTAVG";  
run;  
quit;  
  
/\* 2 \*/  
proc sql outobs=3;  
 select customer\_id  
 into :top3 separated by ', '  
 from orion.order\_fact  
 group by Customer\_ID  
 order by Total\_Retail\_Price desc;  
quit;  
%put &top3;  
/\* 3 \*/  
proc sql;  
select count(\*) into :nrows  
from orion.customer\_type  
;  
quit;  
proc sql;  
select Customer\_Type\_Id  
into :Ctype1 - :Ctype%trim(&nrows)  
from orion.customer\_type  
;  
quit;  
proc sql;  
 select name, value  
 from dictionary.macros  
 where name like "CTYPE%";  
quit;