\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*QUESTION ONE\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;  
libname prg "/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066"; /\*1a\*/  
  
proc contents data=prg.discount2016; /\*1b\*/  
run;  
proc print data=prg.discount2016(obs=7); /\*1c\*/  
run;  
data extended; /\*1d\*/  
 drop Unit\_Sales\_Price; /\*d(v)\*/  
 set prg.discount2016;  
 where Start\_Date = '01Dec2016'd; /\*d(ii)\*/  
 Promotion = "Holidays Bonus"; /\*d(iii)\*/  
 Season = "Winter"; /\*d(v)\*/  
 output; /\*d(i)\*/  
 Season = "Summer"; /\*d(v)\*/  
 Start\_date = '01Jul2017'd; /\* d(iv)\*/  
 End\_date = '31Jul2017'd;  
 output;  
run;  
proc print data=work.extended;  
title"Holiday Bonus Promotion for July 2017 same as December 2016";  
run;  
   
   
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*QUESTION TWO\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;  
libname lands "/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066"; /\*2a\*/  
proc print data=lands.country; /\*2b\*/  
run;  
data new\_country; /\*2c\*/  
 country = former\_country\_name;  
   
   
run;  
  
  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*QUESTION THREE\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;  
libname nh3 "/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066"; /\*3a\*/  
proc contents data=nh3.adultdemographics;  
run;  
data males females; /\*3b\*/  
 set nh3.adultdemographics;  
 select (sex);  
 when (1) output males;  
 otherwise output females;  
 end;  
 drop sex; /\*3c\*/  
 run;  
proc print data=work.males(obs=3); /\*3d\*/  
title"Observations from males dataset";  
run;  
proc print data=work.females(obs=3);  
title"Observations from females dataset(no sex variable observed in both datasets)";  
run;  
proc contents data=work.males; /\*3e\*/  
run;  
proc contents data=work.females;  
run;  
  
  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*QUESTION FOUR\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;  
libname fact "/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066"; /\*4a\*/  
proc contents data=fact.orders; /\*4b\*/  
run;  
proc print data=fact.orders(obs=10); /\*4c\*/  
run;  
  
data fast slow slowest; /\*4d\*/  
 set fact.orders;  
 ShipDays = Delivery\_Date - Order\_Date; /\*d(i)\*/  
 if ShipDays<3 then output fast; /\*d(ii)\*/  
 else if 5 < ShipDays < 7 then output slow; /\*d(iii)\*/  
 else if ShipDays gt 7 then output slowest; /\*d(iv)\*/  
 drop Employee\_ID; /\*d(vi)\*/  
run;  
proc print data=work.fast; /\*4e\*/  
title "fast orders";  
run;  
proc print data=work.slow;  
title "slow orders";  
run;  
proc print data=work.slowest;  
title "slowest orders";  
run;  
  
  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*QUESTION FIVE\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

libname hr "/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066"; /\*5a\*/  
proc contents data=hr.employee\_organization; /\*5b\*/  
run;  
proc print data=hr.employee\_organization; /\*5c\*/  
run;  
  
data sales(drop=Department) exec(keep=Employee\_ID Job\_Title); /\*5d\*/  
 set hr.employee\_organization;  
 select (department);  
 when ('Sales') output sales;  
 when ('Executives') output exec;  
 otherwise;  
 end;  
run;  
proc print data=work.sales(obs=5); /\*5e\*/  
title"Observations from sales dataset";  
run;  
proc print data=work.exec; /\*5f \*/  
title"Observations from exec dataset";  
run;  
  
  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*QUESTION SIX\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;  
libname comp "/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066"; /\*6a\*/  
proc contents data=comp.orders; /\*6b\*/  
run;  
proc print data=comp.orders(obs=11); /\*6c\*/  
run;  
  
data instore(keep=Order\_ID Customer\_ID Order\_Date)   
 delivery(keep=Order\_ID Customer\_ID Order\_Date ShipDays); /\*6d\*/  
 set comp.orders;  
 ShipDays = Delivery\_Date - Order\_Date;  
 select (ShipDays);  
 when (0) output instore;  
 otherwise output delivery;  
 end;  
   
run;  
proc print data=work.delivery(obs=12); /\*6e\*/  
title"Observations for delivery";  
run;  
proc print data=work.instore(obs=25); /\*6f\*/  
title"Observations for instore";  
run;  
  
  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*QUESTION SEVEN\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;  
libname prg2 "/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066"; /\*7a\*/  
proc freq data=prg2.employee\_organization ; /\*7b\*/  
 tables department;  
run;  
  
data admin stock purchasing; /\*7c\*/  
 set prg2.employee\_organization;  
 \*select (upcase(department));  
 if department = 'administration' then output admin; /\*c(i)\*/  
 if department = "stock & shipping" then output stock; /\*c(ii)\*/  
 if department = 'purchasing' then output purchasing; /\*c(iii)\*/  
 \*otherwise;  
 \*end;  
run;

proc print data=work.admin(obs=3); /\*7e\*/  
title "administration";  
run;  
proc print data=work.stock(obs=3);   
title "stock and shipping";  
run;  
proc print data=work.purchasing(obs=3); ;  
title "purchasing";  
run;