# SAS ASSIGNMENT

# (Controlling Input and Output)

/\* Question 1 \*/

libname prg '/courses/d649d56dba27fe300/STA5066';

proc contents data=prg.discount2016;

run;

proc print data=prg.discount2016(obs=7);

run;

data work.extended;

set prg.discount2016;

where Start\_Date = '01DEC2016'd;

Promotion = 'Holidays Bonus';

if Start\_Date = '01DEC2016'd then do;

Season = 'Winter';

Output;

Start\_Date = '01JUL2017'd;

End\_Date = '31JUL2017'd;

Season = 'Summer';

Output;

end;

else Season = 'Winter';

drop Unit\_Sales\_Price;

run;

proc print data=work.extended;

run;

/\* Question 2 \*/

libname lands '/courses/d649d56dba27fe300/STA5066';

proc print data=lands.country;

run;

data work.new\_country;

set lands.country;

output;

if not missing(Former\_Country\_Name) then do;

country\_name = Former\_Country\_Name;

Outdated = 'Y';

output;

end;

run;

proc print data=work.new\_country;

run;

/\* Question 3 \*/

libname nh3 '/courses/d649d56dba27fe300/STA5066';

data work.males work.females;

set nh3.adultdemographics;

if SEX = 1 then output work.males;

else if SEX = 2 then output work.females;

drop SEX;

run;

proc print data=work.males(obs=3);

run;

proc print data=work.females(obs=3);

run;

proc contents data=work.males;

run;

proc contents data=work.females;

run;

/\* Question 4 \*/

libname fact '/courses/d649d56dba27fe300/STA5066';

proc contents data=fact.orders;

run;

proc print data=fact.orders(obs=10);

run;

data work.fast work.slow work.slowest;

set fact.orders;

ShipDays = Ship\_Date - Order\_Date;

drop Employee\_ID;

if ShipDays < 3 then output work.fast;

else if 5 <= ShipDays <= 7 then output work.slow;

else if ShipDays > 7 then output work.slowest;

run;

proc print data=work.fast;

title "Fast Deliveries";

run;

proc print data=work.slow;

title "Slow Deliveries";

run;

proc print data=work.slowest;

title "Slowest Deliveries";

run;

/\* Question 5 \*/

libname hr '/courses/d649d56dba27fe300/STA5066';

proc contents data=hr.employee\_organization;

run;

proc print data=hr.employee\_organization(obs=5);

run;

data work.sales (keep=Employee\_ID Job\_Title Manager\_ID)

work.exec (keep=Employee\_ID Job\_Title);

set hr.employee\_organization;

if Department = 'Sales' then output work.sales;

if Department = 'Executive' then do;

output work.exec;

if \_N\_ = 4 then stop;

end;

run;

proc print data=work.sales(obs=5);

title "First Five Sales Department Records";

run;

proc print data=work.exec;

title "All Executive Department Records";

run;

/\* Question 6 \*/

libname comp '/courses/d649d56dba27fe300/STA5066';

proc contents data=comp.orders;

run;

proc print data=comp.orders(obs=11);

run;

data work.instore (drop=ShipDays)

work.delivery (keep=Order\_ID Customer\_ID Order\_Date ShipDays);

set comp.orders;

ShipDays = Delivery\_Date - Order\_Date; /\* Calculate shipping days \*/

if ShipDays = 0 then output work.instore;

else if ShipDays > 0 then output work.delivery;

run;

proc print data=work.delivery(obs=12);

title "First 12 Records from Delivery Orders";

run;

proc print data=work.instore(obs=25);

title "First 25 Records from In-Store Orders";

run;

/\* Question 7 \*/

libname prg2 '/courses/d649d56dba27fe300/STA5066';

proc freq data=prg2.employee\_organization;

tables department;

run;

data work.admin work.stock work.purchasing;

set prg2.employee\_organization;

if department = "Administration" then output work.admin;

else if department = "Stock & Shipping" then output work.stock;

else if department = "Purchasing" then output work.purchasing;

run;

proc print data=work.admin(obs=3);

title "First 3 Observations in Admin Department";

run;

proc print data=work.stock(obs=3);

title "First 3 Observations in Stock & Shipping Department";

run;

proc print data=work.purchasing(obs=3);

title "First 3 Observations in Purchasing Department";

run;