# Hw12

# Ting Hu th19d

libname data "/courses/d649d56dba27fe300/STA5066";  
  
/\* 1 \*/  
proc print data=data.au\_salesforce;run;  
  
data work.codes;  
 set data.au\_salesforce;  
 FCode1=lowcase(substr(First\_Name, 1, 1));  
 FCode2=lowcase(substr(First\_Name, length(First\_Name), 1));  
 LCode=lowcase(substr(Last\_Name, 1, 4));  
 User\_ID=compress(FCode1||FCode2||LCode);  
run;  
  
proc print data=work.codes;  
 var First\_Name FCode1 FCode2 Last\_Name LCode User\_ID;  
run;

/\* 2 \*/  
proc print data=data.newcompetitors;run;  
  
data work.smallstores;  
 set data.newcompetitors;  
 City=propcase(City);  
 Size=substr(left(substr(ID, 3)), 1, 1);  
 if Size=1;  
run;  
  
proc print data=work.smallstores;run;

/\* 3 \*/  
proc contents data=data.contacts;run;  
  
proc print data=data.contacts;run;  
  
data states;  
 set data.contacts;  
 Location=propcase(zipname(scan(Address2, -1)));  
 keep ID Name Location;  
run;  
  
proc print data=states;run;

/\* 4 \*/  
proc contents data=data.customers\_ex5;run;  
  
proc print data=data.customers\_ex5(obs=15);run;  
  
data work.names;  
 set data.customers\_ex5;  
 keep New\_Name Name Gender;  
  
 if Gender="M" then  
 Gender1="Mr.";  
 else  
 Gender1="Ms.";  
 New\_Name=propcase(compbl(Gender1||scan(Name, 2, ",")||scan(Name, 1, ",")));  
run;  
  
proc print data=work.names;run;

/\* 5 \*/  
proc print data=data.customers\_ex5;run;  
  
data work.silver work.gold work.platinum;  
 set data.customers\_ex5;  
 Customer\_ID=tranwrd(Customer\_ID, "-00-", "-15-");  
 Type=scan(Customer\_ID, 1, "-");  
 if Type="Silver000" then  
 output work.silver;  
 else if Type="Gold000" then  
 output work.gold;  
 else if Type="platinum000" then  
 output work.platinum;  
 keep Customer\_ID Name Country;  
run;  
  
proc print data=work.silver;run;  
  
proc print data=work.gold;run;  
  
proc print data=work.platinum;run;

/\* 6 \*/  
proc print data=data.employee\_donations;run;  
  
data work.split;  
 set data.employee\_donations;  
 PctLoc=find(Recipients, "%");  
  
 if PctLoc=0 then  
 do;  
 Charity=Recipients;  
 output;  
 end;  
 else  
 do;  
 Charity=substr(Recipients, 1, PctLoc);  
 output;  
 Charity=substr(Recipients, PctLoc+2);  
 output;  
 end;  
run;  
  
proc print data=work.split;run;

/\* 7 \*/  
proc print data=data.orders\_midyear;run;  
  
data work.sale\_stats;  
 set data.orders\_midyear;  
 MonthAvg=round(mean(of Mon:));  
 MonthMax=max(of Month1-Month6);  
 MonthSum=sum(of Month1-Month6);  
run;  
  
proc print data=work.sale\_stats;  
 var Customer\_ID MonthAvg MonthMax MonthSum;  
run;

/\* 8 \*/  
proc print data=data.orders\_midyear;run;  
  
data work.freqcustomers;  
 set data.orders\_midyear;  
 Median\_Order=median(of Mon:);  
 Top1\_Order=max(of Mon:);  
 Top2\_Order=largest(2, of Mon:);  
  
 if N(of Mon:) >=5;  
run;  
  
proc print data=work.freqcustomers;run;

/\* 9 \*/  
proc contents data=data.shipped;run;  
  
proc print data=data.shipped;run;  
  
data shipping\_notes;  
 set data.shipped;  
 length Comment $ 21.;  
 Comment=cat('Shipped on ', put(Ship\_Date, date9.));  
 Total=Quantity \* input(Price, dollar7.2);  
run;  
  
proc print data=shipping\_notes noobs;  
 format Total dollar7.2;  
run;

/\* 10 \*/

proc contents data=data.US\_newhire;run;

proc print data=data.US\_newhire;run;

data work.US\_converted(drop=ID\_converted Tel Bir);

set data.US\_newhire(rename=(ID=ID\_converted Telephone=Tel Birthday=Bir));

ID=input(compress(ID\_converted, "-"), 15.);

Telephone=catx("-", substr(put(Tel, 8.), 2, 3), substr(put(Tel, 8.), 5, 4));

Birthday=input(Bir, date9.);

run;

proc contents data=work.US\_converted;run;

proc print data=work.US\_converted;run;