# Hw09

# Ting Hu th19d

libname data '/courses/d649d56dba27fe300/STA5066';  
  
/\*1\*/  
data work.increase;  
 set data.staff;  
 Increase=Salary\*0.1;  
 NewSalary=Salary+Increase;  
 keep Employee\_ID Salary Increase NewSalary;  
 format Salary Increase NewSalary comma10.;  
run;  
  
proc print data=work.increase;run;  
  
/\*2\*/  
data work.birthday;  
 set data.customer;  
 Bday2017=mdy(month(Birth\_Date), day(Birth\_Date), 2017);  
 BdayDOW2017=weekday(Bday2017);  
 Age2017=(Bday2017-Birth\_Date)/365.25;  
 keep Customer\_Name Birth\_Date Bday2017 BdayDOW2017 Age2017;  
 format Bday2017 date9. Age2017 2.;  
run;  
  
proc print data=work.birthday(obs=23);run;  
  
/\*3\*/  
data work.region;  
 set data.supplier;  
 length Region $18.;  
  
 if Country in ('CA', 'US') then  
 do;  
 Discount='10%';  
 DiscountType='Required';  
 Region='North America';  
 end;  
 else  
 do;  
 Discount='5%';  
 DiscountType='Optional';  
 Region='Not North America';  
 end;  
 keep Supplier\_Name Country Discount DiscountType Region;  
run;  
  
proc print data=work.region;run;  
  
/\*4\*/  
data work.ordertype;  
 set data.orders;  
 length Type $15.;  
 DayOfWeek=weekday(Order\_Date);  
  
 if Order\_Type=1 then  
 do;  
 Type='Catalog Sale';  
 SaleAds='Mail';  
 end;  
 else if Order\_Type=2 then  
 do;  
 Type='Internet Sale';  
 SaleAds='Email';  
 end;  
 else  
 do;  
 Type='Retail Sale';  
 end;  
 drop Order\_Type Employee\_ID Customer\_ID;  
run;  
  
proc print data=work.ordertype(obs=25);run;  
  
/\*5\*/  
data work.gifts;  
 set data.nonsales;  
 length Gift1 $8. Gift2 $15.;  
  
 select (Gender);  
 when ('F')   
 do;  
 Gift1='Perfume';  
 Gift2='Cookware';  
 end;  
 when ('M')   
 do;  
 Gift1='Cologne';  
 Gift2='Lawn Equipment';  
 end;  
 otherwise   
 do;  
 Gift1='Coffee';  
 Gift2='Lawn Calendar';  
 end;  
 end;  
 keep Employee\_ID First Last Gift1 Gift2;  
run;  
  
proc print data=work.gifts(obs=27);run;  
  
/\*6\*/  
data work.increase;  
 set data.staff;  
 where Emp\_Hire\_Date>='01JUN2006'd;  
 Increase=Salary\*0.1;  
 NewSalary=sum(Salary, Increase);  
  
 if Increase>3000;  
 format Salary Increase NewSalary comma10.;  
 keep Employee\_ID Emp\_Hire\_Date Salary Increase NewSalary;  
run;  
  
proc print data=work.increase;run;  
  
/\*7\*/  
data work.bigdonations;  
 set data.employee\_donations;  
 Total=sum(Qtr1, Qtr2, Qtr3, Qtr4);  
 NoDonation=nmiss(Qtr1, Qtr2, Qtr3, Qtr4);  
  
 if Total<50 or NoDonation^=0 then  
 delete;  
run;  
  
proc print data=work.bigdonations;  
 var Employee\_ID Qtr1 Qtr2 Qtr3 Qtr4 Total NoDonation;  
run;  
  
/\*8\*/  
data work.diabetes(drop=HAD1 HAD3 HAD4);  
 set data.adult(keep=SEQN DMARETHN HSSEX HSAGEIR HAD1 HAD3 HAD4);  
  
 if HAD1^=1 and HAD1^=2 then  
 delete;  
  
 if HAD1=1 then  
 Diabetic=1;  
 else  
 Diabetic=0;  
  
 if hssex=2 and diabetic=1 and had4=2 then  
 diabetic=0;  
run;  
  
proc freq data=work.diabetes;  
 table diabetic;  
run;