\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Question One\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

libname STAFF '/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066'; /\*1\*/

**data** increase;

set STAFF.staff;

Increase = **0.1** \* Salary; /\*1a\*/

NewSalary = Increase + Salary;

keep Employee\_ID Salary Increase NewSalary; /\*1b\*/

format Salary DOLLAR10. Increase DOLLAR10. NewSalary DOLLAR10.; /\*1c\*/

**run**;

**proc** **print** data=work.increase; /\*1d\*/

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Question Two\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

libname cust '/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066'; /\*2\*/

**data** birthday;

set cust.customer;

\*month = month(Birth\_Date);

\*day = day(Birth\_Date);

Bday2017 = mdy(month(Birth\_Date),day(Birth\_Date),**2017**); /\*a(i)\*/

BdayDOW2017 = weekday(Bday2017); /\*a(ii)\*/

Age2017 = ((Bday2017 - Birth\_Date) / **365.25**); /\*a(iii)\*/

keep Customer\_Name Birth\_Date Bday2017 BdayDOW2017 Age2017; /\*2b\*/

format Bday2017 date9. Age2017 **2.**; /\*2cd\*/

**run**;

**proc** **print** data=work.birthday(obs=**23**); /\*2e\*/

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Question Three\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

libname sup '/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066'; /\*3\*/

**data** region;

set sup.supplier;

\*Discount

DiscountType

Region;

length Region $**25**;

if Country in ('CA', 'US') then do; /\*3b\*/

Discount = **0.1**;

DiscountType = "Required";

Region = "North America";

end;

else do; /\*3c\*/

Discount = **0.05**;

DiscountType = "Optional";

Region = "Not North America";

end;

keep Supplier\_Name Country Discount DiscountType Region; /\*3d\*/

**run**;

**proc** **print** data=work.region; /\*3e\*/

format Discount percent10.;

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Question Four\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

libname order '/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066'; \*4\*/

**data** ordertype;

set order.ORDERS;

DayOfWeek = weekday(Order\_Date); /\*4a\*/

if Order\_Type = **1** then /\*4b\*/

Type = "Catalog Sale";

Type = "Catalog Sale";

else if Order\_Type = **2** then

Type = "Internet Sale";

else

Type = "Retail Sale";

length SalesAd $ **5**;

if Order\_Type = **1** then /\*4c\*/

SalesAd = "Mail";

else if Order\_Type = **2** then

SalesAd = "Email";

drop Order\_Type Employee\_ID Customer\_ID; /\*4d\*/

/\*if Order\_Type =1 then do; checking that this method works

Type ="Catalog Sale";

SalesAds = "Mail";

end;

else if Order\_Type = 2 then do;

Type = "Retail Sale";

SalesAds = "Email";

end;

else do;

Type = "Retail Sale";

end;\*/

**run**;

**proc** **print** data=ordertype(obs=**25**);

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Question Five\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

libname ns '/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066'; /\*5\*/

**data** gifts;

set ns.NONSALES;

select(Gender);/\*5a\*/

when ("F") do; /\*5b\*/

Gift1 = "Perfume";

length Gift2 $**14**;

Gift2 = "Cookware";

end;

when ("M") do; /\*5c\*/

Gift1 = "Cologne";

Gift2 = "Lawn Equipment";

end;

otherwise do; /\*5d\*/

Gift1 = "Coffee";

Gift2 = "Lawn Calendar";

end;

end;

keep Employee\_ID First Last Gift1 Gift2; /\*5e\*/

**run**;

**proc** **print** data=gifts(obs=**27**); /\*5f\*/

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Question Six\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

libname st '/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066'; /\*6\*/

**data** increase;

set st.STAFF;

where Emp\_Hire\_Date ge mdy(**07**,**01**,**2006**);\*"01July2006"d; /\*6a\*/

Increase = **0.1** \* Salary; /\*6b\*/

NewSalary = sum(Salary, Increase); /\*6c\*/

if Increase gt **3000**; /\*6d\*/

format Salary Increase NewSalary comma10.; /\*6e\*/

keep Employee\_ID Emp\_Hire\_Date Salary Increase NewSalary; /\*6f\*/

**run**;

**proc** **print** data=increase; /\*6g\*/

**run**;

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Question Seven\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

libname emp\_dons '/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066'; /\*7\*/

**data** bigdonations;

set emp\_dons.employee\_donations;

Total = sum(Qtr1, Qtr2, Qtr3, Qtr4); /\*7a\*/

NoDonation = nmiss(of Qtr1--Qtr4); /\*7b\*/

if Total lt **50** then delete; /\*7c\*/

if NoDonation ne **0** then delete;

**run**;

**proc** **print** data=bigdonations; /\*7d\*/

var Employee\_ID Qtr1 Qtr2 Qtr3 Qtr4 Total NoDonation;

title "Data portion of work.bigdonations";

**run**;

title;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Question Eight\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

\*Cannot figure out how to get 'diabetic' recognized as a variable;

libname ad '/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066'; /\*8\*/

**data** diabetes;

set ad.adult(keep=SEQN DMARETHN HSSEX

HSAGEIR HAD1 HAD3 HAD4); /\*8a\*/

\*length diabetic 5;

drop HAD1 HAD3 HAD4; /\*8b\*/

if HAD1 ne **1** or **2** then delete; /\*8c\*/

diabetic = **1**;

if HAD1 eq **1**; /\*8d\*/

if HAD1 EQ **2**;

diabetic =**0**;

else

diabetic = **0** ;

if diabetic = **1** /\*8e\*/

if hssex=**2** and had4=**2** then

diabetic = **0**;

**run**;

**proc** **print** ;

**run**;

**PROC** **FREQ** DATA=diabetes;

TABLES diabetic;

**RUN**;