libname sasDset '/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066';

\*\*\*\*\*\*\*\*\*\*\*\*Exercise One\*\*\*\*\*\*\*\*\*\*\*;

**proc** **freq** data=sasdset.orders nlevels; /\*1\*/

where Order\_Type=**1**; /\*1a\*/

title "Unique Customers and

Salespersons for Retail Sales"; /\*1b\*/

tables Customer\_ID Employee\_ID/noprint; /\*1c\*/

**run**;

**proc** **freq** data=sasdset.orders nlevels; /\*2\*/

where Order\_Type ne **1**; /\*2a\*/

title"Unique Customers for Catalog and Internet"; /\*2b\*/

tables Customer\_ID / noprint; /\*2c\*/

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*Exercise Two\*\*\*\*\*\*\*\*\*\*\*;

**proc** **format**; /\*1\*/

value ordertypes **1**=’Retail’ **2**=’Catalog’ **3**=’Internet’;

**run**;

**proc** **freq** data=sasdset.orders; /\*2a\*/

tables Order\_Date;

format Order\_Date YEAR4.;

**run**;

**proc** **freq** data=sasdset.orders; /\*2b\*/

table order\_Type/nocum nopercent;

format Order\_Type ordertypes.;

**run**;

**proc** **freq** data=sasdset.orders;

tables Order\_Date\*Order\_Type /nocol norow nocum nopercent;

format Order\_Date YEAR4. Order\_Type ordertypes.;

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*Exercise Three\*\*\*\*\*\*\*\*\*\*\*;

**proc** **freq** data=sasdset.order\_fact; /\*1\*/

table Product\_ID / nocum nopercent norow

out =freqcount ;

**run**;

**data** frqpro\_lst; /\*2\*/

merge freqcount sasdset.product\_list;

**run**;

**proc** **sort** data=frqpro\_lst; /\*3\*/

by descending count;

**run**;

**proc** **print** data=frqpro\_lst (obs=**10**); /\*4\*/

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*Exercise Four\*\*\*\*\*\*\*\*\*\*\*;

**proc** **format**;

value ordertypes **1**=’Retail’ **2**=’Catalog’ **3**=’Internet’;

**run**;

**proc** **means** data=sasdset.order\_fact sum; /\*2\*/

var Total\_Retail\_Price;

**run**;

**proc** **means** data=sasdset.order\_fact;

title "Revenue (in U.S. Dollars) Earned from All Orders"; /\*1\*/

var Order\_Date; /\*3\*/

class Order\_Type;

format Order\_Type ordertypes. Order\_Date YEAR4.; /\*4,5\*/

**run**;

**proc** **print** data=sasdset.product\_list;

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*Exercise Five\*\*\*\*\*\*\*\*\*\*\*;

**proc** **means** data=sasdset.staff n nmiss nonobs /\*2\*/;

var Birth\_Date Emp\_Hire\_Date Emp\_Term\_Date;

class Gender; /\*1\*/

title "Number of Missing and Non-Missing Date Values"; /\*3\*/

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*Exercise Six\*\*\*\*\*\*\*\*\*\*\*;

**proc** **means** data=sasdset.order\_fact sum noprint; /\*1\*/

var Total\_Retail\_Price;

class Product\_ID;

output out=work.trp sum=sum;

**proc** **sort** data=sasdset.product\_list out=pl;

by Product\_ID;

**run**;

**proc** **sort** data=work.trp out=trp;

by Product\_ID;

**run**;

**data** product; /\*2\*/

merge pl trp;

**run**;

**proc** **sort** data=product; /\*3\*/

by descending sum;

**run**;

**proc** **print** data=product (obs=**10**); /\*4\*/

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*Exercise Seven\*\*\*\*\*\*\*\*\*\*\*;

**data** work.AnalysisTmp; /\*1\*/

set sasdset.Analysis;

keep seqn dmaracer dmarethn dmaethnr hssex hsageir;

**run**;

**proc** **freq** data=work.AnalysisTmp; /\*2\*/

tables dmaracer dmarethn hssex / nocum nopercent;

**run**;

**proc** **freq** data=work.AnalysisTmp; /\*3\*/

tables dmaracer dmarethn hssex / nocum nopercent;

where hssex=**2** and hsageir < **50**;

**run**;

**proc** **format**; /\*4\*/

value agef low-<**45**=”<**45**” **45**-**59**=”**45**-**59**” **60**-high=”**60**+”;

**run**;

**proc** **freq** data=work.AnalysisTmp; /\*5\*/

tables (dmaracer dmarethn hssex)\*hsageir / nocol norow nocum nopercent;

format hsageir agef.;

**run**;

\*\*\*\*\*\*\*\*\*\*\*\*Exercise Eight\*\*\*\*\*\*\*\*\*\*\*;

**proc** **print** data=sashelp.heart; **run**;

**proc** **univariate** data=sashelp.heart;

var Cholesterol;

histogram Cholesterol/normal; /\*1\*/

inset mean(**6.1**) std(**5.1**) n /position=ne;

qqplot Cholesterol/normal ; /\*2\*/

inset mean(**6.1**) std(**5.1**) n /position=n;

**run**;