libname orion "/home/u62109636/my\_shared\_file\_links/jhshows0/STA5066";

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

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

title1 "Orion Star Sales Analysis"; /\*a\*/

title2 "Catalog Sales Only"; /\*b\*/

footnote "Based on the previous day's posted data"; /\*c\*/

where Order\_Type=**2**;

var Total\_Retail\_Price;

**run**;

footnote; /\*e\*/

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

title2"Internet Sales Only"; /\*d\*/

where Order\_Type=**3**;

var Total\_Retail\_Price;

**run**; /\*f\*/

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

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

var Total\_Retail\_Price;

title "Sales Report as of %sysfunc(time(),timeampm.)

on %sysfunc(today(),worddate.)"; /\*a\*/

**run**; /\*b\*/

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

**proc** **print** data=orion.customer label split="\*";

where Country='TR';

title 'Customers from Turkey';

var Customer\_ID Customer\_FirstName Customer\_LastName

Birth\_Date;

format Birth\_Date year4.; /\*a\*/

label Customer\_ID='Customer ID' /\*b\*/

Customer\_FirstName='First \* Name'

Customer\_LastName='Last \* Name'

Birth\_Date='Birth Year';

**run**; /\*c\*/

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

**proc** **format**; /\*a\*/

value $ gender "F" = "Female"

"M" = "Male";

value moname **1** = "January" /\*b\*/

**2** = "February"

**3** = "March";

**run**;

**data** Q1Birthdays;

set orion.employee\_payroll;

BirthMonth=month(Birth\_Date);

if BirthMonth le **3**;

**run**;

**proc** **freq** data=Q1Birthdays;

tables BirthMonth Employee\_Gender;

title 'Employees with Birthdays in Q1';

format Employee\_Gender $gender. BirthMonth moname.; /\*c\*/

**run**; /\*d\*/

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

**proc** **format**;

value $gender "F" = "Female" /\*a\*/

"M" = "Male"

other = "Invalid code";

value salrange **20000**-<**100000** = "Below $100,000" /\*b\*/

**100000**-**500000** = "$100,000 or more"

. = "Missing salary"

other = "Invalid Salary";

**run**;

**proc** **print** data=orion.nonsales (obs=**10**);

var Employee\_ID Job\_Title Salary Gender;

title1 'Distribution of Salary and Gender Values';

title2 'for Non-Sales Employees';

format Salary salrange. Gender $gender.; /\*c\*/

**run**; /\*d\*/

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

**proc** **sort** data=orion.order\_fact out=work.sorted; /\*a\*/

by Order\_Type;

**run**;

**proc** **means** data=work.sorted;

var Total\_Retail\_Price;

title 'Orion Star Sales Summary';

by Order\_Type; /\*c\*/

where Order\_Type ge **2**; /\*b\*/

**run**; /\*e\*/

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

**proc** **sort** data=orion.order\_fact out=work.sort; /\*a\*/

by Order\_Type descending Order\_Date;

**run**;

**proc** **print** data=work.sort;

var Order\_Type Order\_ID Order\_Date Delivery\_Date ;

title1 'Orion Star Sales Details';

by Order\_Type; /\*b\*/

where Order\_Date between**'01jan2005'd** and **'30apr2005'd** /\*c(1)\*/

and Delivery\_Date = intnx('Day', Order\_Date, **2**); /\*c(2)\*/

title2 '2-Day Deliveries from January to April 2005'; /\*d\*/

**run**;

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

**proc** **tabulate** data=orion.customer\_dim;

title 'Ages of Customers by Group and Gender';

class Customer\_Group Customer\_Gender; /\*a\*/

var Customer\_Age; /\*b\*/

table Customer\_Group\*Customer\_Gender all, /\*c(i)\*/

Customer\_Age \* (n mean); /\*c(ii)\*/

**run**;