## Hw15

Ting Hu th19d

libname orion '/courses/d649d56dba27fe300/STA5066';  
  
/\* 1 \*/  
title "Orion Star Sales Analysis";  
title3 "Catalog Sales Only";  
footnote "Based on the previous day's posted data";  
  
proc means data=orion.order\_fact;  
 where Order\_Type=2;  
 var Total\_Retail\_Price;  
run;  
  
title;  
footnote;  
  
title "Orion Star Sales Analysis";  
title3 "internet Sales Only";  
proc means data=orion.order\_fact;  
 where Order\_Type=3;  
 var Total\_Retail\_Price;  
run;  
title;  
  
/\* 2 \*/  
%let currentdate=%sysfunc(today(), weekdate.);  
%let currenttime=%sysfunc(time(), timeampm8.);  
  
proc means data=orion.order\_fact;  
 var Total\_Retail\_Price;  
 title "Sales Report as of &currenttime on &currentdate";  
run;  
  
/\* 3 \*/  
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. Customer\_FirstName $1. Customer\_ID z6.;  
 label Customer\_ID="Customer ID" Customer\_FirstName="First\*Initial"   
 Customer\_LastName="Last\*Name" Birth\_Date="Birth Year";  
run;  
  
/\* 4 \*/  
data Q1Birthdays;  
 set orion.employee\_payroll;  
 BirthMonth=month(Birth\_Date);  
  
 if BirthMonth le 3;  
run;  
  
proc format;  
 value $gender 'F'='Female' 'M'='Male';  
run;  
  
proc format;  
 value moname 1='January' 2='February' 3='March';  
run;  
  
proc freq data=Q1Birthdays;  
 tables BirthMonth Employee\_Gender;  
 title 'Employees with Birthdays in Q1';  
 format Employee\_Gender $gender. BirthMonth moname.;  
run;  
  
/\* 5 \*/  
proc format;  
 value $gender 'F'='Female' 'M'='Male' other='Invalid code';  
run;  
  
proc format;  
 value salrange 20000-<100000='Below $100,000' 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 Gender $gender. Salary salrange.;  
run;  
  
/\* 6 \*/  
proc sort data=orion.order\_fact out=sortdata;  
 by Order\_Type;  
run;  
  
proc means data=sortdata;  
 var Total\_Retail\_Price;  
 title 'Orion Star Sales Summary';  
 where Order\_Type=2 or Order\_Type=3;  
 by Order\_Type;  
run;  
  
/\* 7 \*/  
proc sort data=orion.order\_fact out=datasort;  
 by Order\_Type descending Order\_Date;  
run;  
  
proc print data=datasort;  
 var Order\_ID Order\_Date Delivery\_Date;  
 title1 'Orion Star Sales Details';  
 title2 '2-Day Deliveries from January to April 2005';  
 by Order\_Type;  
 where Order\_Date>='01JAN2005'd and Order\_Date<='30APR2005'd and   
 Delivery\_Date-Order\_Date=2;  
run;  
  
/\* 8 \*/  
proc tabulate data=orion.customer\_dim;  
 title 'Ages of Customers by Group and Gender';  
 class Customer\_Group Customer\_Gender;  
 var Customer\_Age;  
 table Customer\_Group all, Customer\_Gender\*Customer\_Age\*(n mean);  
run;