# SAS ASSIGNMENT 15

# ( Summary Reports 2)

/\* Question 1 \*/

libname orion "/courses/d649d56dba27fe300/STA5066";

title "Orion Star Sales Analysis";

title2 "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;

title2 "Internet Sales Only";

footnote;

proc means data=orion.order\_fact;

where Order\_Type=3;

var Total\_Retail\_Price;

run;

title;

footnote;

/\* Question 2 \*/

libname orion "/courses/d649d56dba27fe300/STA5066";

data \_null\_;

call symputx('rundate', put(datetime(), datetime19.), 'g');

run;

title "Sales Report as of &rundate";

proc means data=orion.order\_fact;

var Total\_Retail\_Price;

run;

title;

/\* Question 3 \*/

libname orion "/courses/d649d56dba27fe300/STA5066";

proc print data=orion.customer label;

where Country = 'TR';

title 'Customers from Turkey';

var Customer\_ID Customer\_FirstName Customer\_LastName Birth\_Date;

label

Customer\_ID = 'Customer ID'

Customer\_FirstName = 'First Name'

Customer\_LastName = 'Last Name'

Birth\_Date = 'Birth Year';

format Birth\_Date year4.;

run;

title;

/\* Question 4 \*/

libname orion "/courses/d649d56dba27fe300/STA5066";

proc format;

value $gender

'F' = 'Female'

'M' = 'Male';

value moname

1 = 'January'

2 = 'February'

3 = 'March';

run;

data Q1Birthdays;

set orion.employee\_payroll;

BirthMonth = month(Birth\_Date);

if BirthMonth le 3; /\* Include only January, February, and March \*/

run;

proc freq data=Q1Birthdays;

tables BirthMonth Employee\_Gender;

title 'Employees with Birthdays in Q1';

format BirthMonth moname. Employee\_Gender $gender.;

run;

title;

/\* Question 5 \*/

libname orion "/courses/d649d56dba27fe300/STA5066";

proc format;

value $gender

'F' = 'Female'

'M' = 'Male'

other = 'Invalid code';

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;

title;

/\* Question 6 \*/

libname orion "/courses/d649d56dba27fe300/STA5066";

proc sort data=orion.order\_fact out=sorted\_order\_fact;

by Order\_Type;

run;

proc means data=sorted\_order\_fact;

where Order\_Type in (2, 3);

class Order\_Type;

var Total\_Retail\_Price;

title 'Orion Star Sales Summary';

run;

title;

/\* Question 7 \*/

libname orion "/courses/d649d56dba27fe300/STA5066";

proc sort data=orion.order\_fact out=sorted\_order\_fact;

by Order\_Type descending Order\_Date;

run;

proc print data=sorted\_order\_fact;

where '01JAN2005'd <= Order\_Date <= '30APR2005'd and

Delivery\_Date = Order\_Date + 2;

by Order\_Type;

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

title1 'Orion Star Sales Details';

title2 '2-Day Deliveries from January to April 2005';

run;

title;

/\* Question 8 \*/

libname orion "/courses/d649d56dba27fe300/STA5066";

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))

/ box='Customer Group Name';

run;

title;