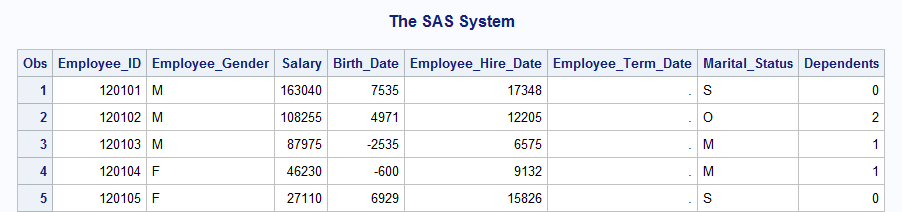
**MBAN 6120 Assignment 2**

**Chapter 5 Level I and II Exercises**

1 a)

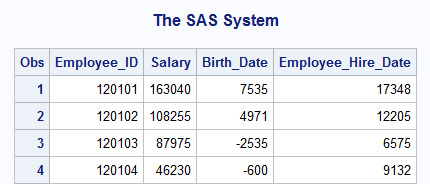


b)

**proc** **print** data=orion.employee\_payroll;

var Employee\_ID Salary Birth\_Date Employee\_Hire\_Date;

**run**;



c)

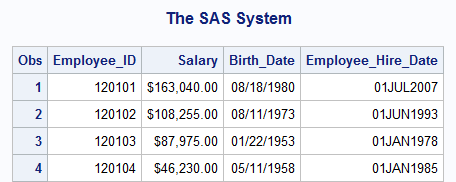
**proc** **print** data=orion.employee\_payroll;

var Employee\_ID Salary Birth\_Date Employee\_Hire\_Date;

format Salary dollar11.2 Birth\_Date mmddyy10.

Employee\_Hire\_Date date9.;

**run**;



2

title1 'US Sales Employees';

title2 'Earning Under $26,000';

**proc** **print** data=orion.sales label noobs;

where Country='US' and Salary < **26000**;

var Employee\_ID First\_Name Last\_Name Job\_Title Salary Hire\_Date;

label First\_Name='First Name' Last\_Name='Last Name'

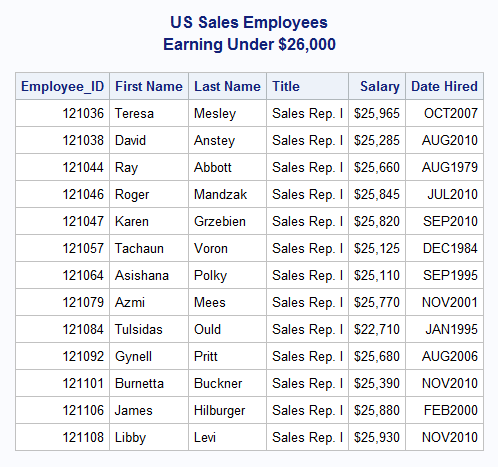
Job\_Title='Title'

Hire\_Date='Date Hired';

format Salary dollar10. Hire\_Date monyy7.;

**run**;

title;



4 b)

**proc** **format**;

value $gender 'F' = 'Female'

'M' = 'Male';

**run**;

4 c)

**proc** **format**;

value mname **1** = 'January'

**2** = 'February'

**3** = 'March';

**run**;

d)

title 'Employees with Birthdays in Q1';

**proc** **print** data = Q1Birthdays;

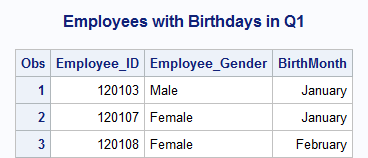
var Employee\_ID Employee\_Gender BirthMonth;

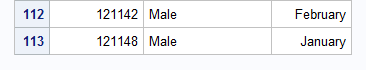
format Employee\_Gender $gender. BirthMonth mname.;

**run**;

title;

e)





5 b)

**proc** **format**;

value $gender 'F' = 'Female'

'M' = 'Male'

Other = 'Invalid code';

**run**;

5 c)

**proc** **format**;

value salrange **.** = 'Missing salary'

**20000** -< **100000** = 'Below $100,000'

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

Other = 'Invalid salary';

**run**;

d)

**proc** **format**;

value $gender 'F' = 'Female'

'M' = 'Male'

other = 'Invalid code';

value salrange **.** = 'Missing salary'

**20000** -< **100000** = 'Below $100,000'

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

other = 'Invalid salary';

**run**;

title1 'Salary and Gender Values';

title2 'for Non-Sales Employees';

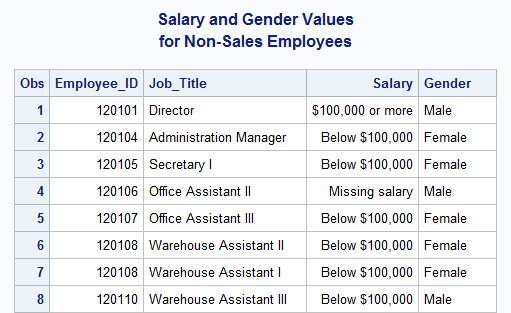
**proc** **print** data = orion.nonsales;

var Employee\_ID Job\_Title Salary Gender;

format Salary salrange. Gender $gender.;

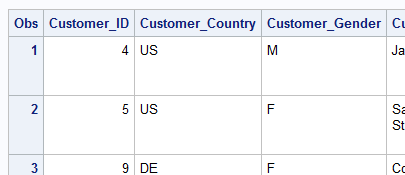
**run**;

title;



**Chapter 6 Level I and II Exercises**

1 a)



The name of variable that contains gender values is **Customer\_Gender**

The two observed gender values are **M** and **F**

b)

**data** work.youngadult;

set orion.customer\_dim;

where Customer\_Gender = 'F';

**run**;

NOTE: There were 30 observations read from the data set ORION.CUSTOMER\_DIM.

WHERE Customer\_Gender='F';

NOTE: The data set WORK.YOUNGADULT has 30 observations and 11 variables.

NOTE: DATA statement used (Total process time):

real time 0.18 seconds

cpu time 0.04 seconds

c)

**data** work.youngadult;

set orion.customer\_dim;

where Customer\_Gender = 'F' and

Customer\_Age between **18** and **36**;

**run**;

NOTE: There were 15 observations read from the data set ORION.CUSTOMER\_DIM.

WHERE (Customer\_Gender='F') and (Customer\_Age>=18 and

Customer\_Age<=36);

NOTE: The data set WORK.YOUNGADULT has 15 observations and 11 variables.

NOTE: DATA statement used (Total process time):

real time 0.03 seconds

cpu time 0.03 seconds

1 d)

**data** work.youngadult;

set orion.customer\_dim;

where Customer\_Gender = 'F' and

Customer\_Age between **18** and **36** and

Customer\_Group contains 'Gold';

**run**;

NOTE: There were 5 observations read from the data set ORION.CUSTOMER\_DIM.

WHERE (Customer\_Gender='F') and (Customer\_Age>=18 and

Customer\_Age<=36) and Customer\_Group contains 'Gold';

NOTE: The data set WORK.YOUNGADULT has 5 observations and 11 variables.

NOTE: DATA statement used (Total process time):

real time 0.03 seconds

cpu time 0.03 seconds

e)

**data** work.youngadult;

set orion.customer\_dim;

where Customer\_Gender = 'F' and

Customer\_Age between **18** and **36** and

Customer\_Group contains 'Gold';

Discount = **.25**;

**run**;

f)

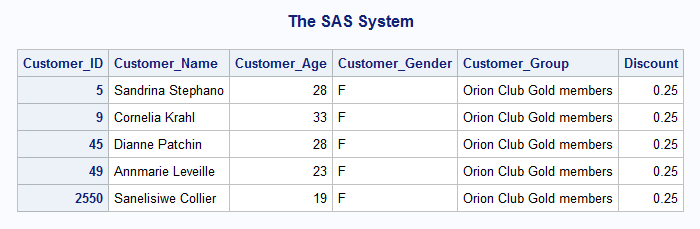
**proc** **print** data = work.youngadult;

var Customer\_Name Customer\_Age

Customer\_Gender Customer\_Group Discount;

id Customer\_ID;

**run**;



2 a)

**data** work.assistant;

set orion.staff;

**run**;

b)

**data** work.assistant;

set orion.staff;

where Job\_Title contains 'Assistant' and Salary < **26000**;

**run**;

c)

**data** work.assistant;

set orion.staff;

where Job\_Title contains 'Assistant' and Salary < **26000**;

Increase = Salary\***.10**;

New\_Salary = Salary + Increase;

**run**;

d)

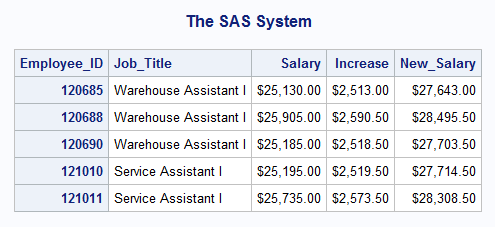
**proc** **print** data = work.assistant;

id Employee\_ID;

var Job\_Title Salary Increase New\_Salary;

format Salary Increase New\_Salary dollar10.2;

**run**;



4 b)

**data** work.increase;

set orion.staff;

where Emp\_Hire\_Date >= **'01JUL2010'd**;

Increase = Salary \* **0.10**;

NewSalary = Salary + Increase;

**run**;

NOTE: There were 72 observations read from the data set ORION.STAFF.

WHERE Emp\_Hire\_Date>='01JUL2010'D;

NOTE: The data set WORK.INCREASE has 72 observations and 12 variables.

NOTE: DATA statement used (Total process time):

real time 0.01 seconds

cpu time 0.00 seconds

c)

**data** work.increase;

set orion.staff;

where Emp\_Hire\_Date >= **'01JUL2010'd**;

Increase = Salary \* **0.10**;

if Increase > **3000**;

NewSalary = Salary + Increase;

**run**;

d)

**data** work.increase;

set orion.staff;

where Emp\_Hire\_Date >= **'01JUL2010'd**;

Increase = Salary \* **0.10**;

if Increase > **3000**;

NewSalary = Salary + Increase;

keep Employee\_ID Emp\_Hire\_Date Salary Increase NewSalary;

**run**;

e)

**data** work.increase;

set orion.staff;

where Emp\_Hire\_Date >= **'01JUL2010'd**;

Increase = Salary \* **0.10**;

if Increase > **3000**;

NewSalary = Salary + Increase;

label Employee\_ID = 'Employee ID'

Emp\_Hire\_Date = 'Hire Date'

NewSalary = 'New Annual Salary';

keep Employee\_ID Emp\_Hire\_Date Salary Increase NewSalary;

**run**;

f)

**data** work.increase;

set orion.staff;

where Emp\_Hire\_Date >= **'01JUL2010'd**;

Increase = Salary \* **0.10**;

if Increase > **3000**;

NewSalary = Salary + Increase;

label Employee\_ID = 'Employee ID'

Emp\_Hire\_Date = 'Hire Date'

NewSalary = 'New Annual Salary';

format Salary NewSalary dollar10.2 Increase comma5.;

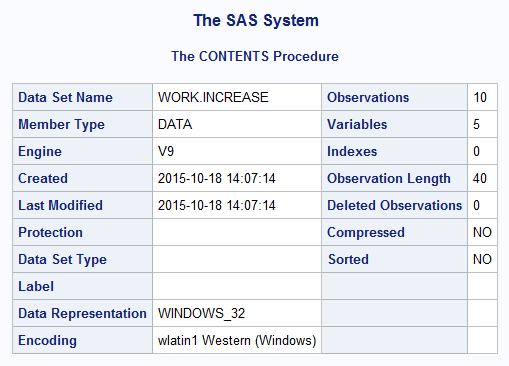
keep Employee\_ID Emp\_Hire\_Date Salary Increase NewSalary;

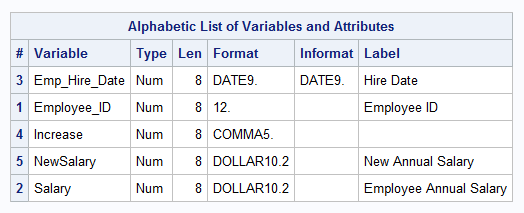
**run**;

g)

**proc** **contents** data = work.increase;

**run**;





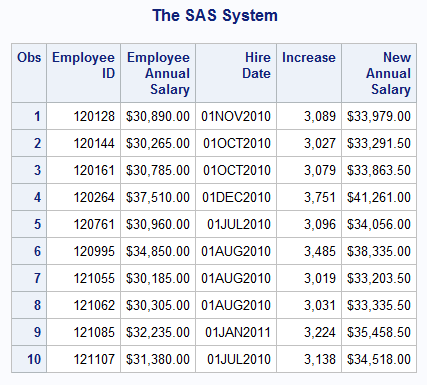
h)

These labels and formats were inherited from the input data set.

i)

**proc** **print** data=work.increase split=' ';

**run**;

  
  
5 a)

**data** work.delays;

set orion.orders;

**run**;

b)

**data** work.delays;

set orion.orders;

Order\_Month = month(Order\_Date);

**run**;

c)

**data** work.delays;

set orion.orders;

where Order\_Date + **4** < Delivery\_Date

and Employee\_ID = **99999999**;

Order\_Month = month(Order\_Date);

if Order\_Month = **8**;

**run**;

d)

**data** work.delays;

set orion.orders;

where Order\_Date + **4** < Delivery\_Date

and Employee\_ID = **99999999**;

Order\_Month = month(Order\_Date);

if Order\_Month = **8**;

keep Employee\_ID Customer\_ID Order\_Date Delivery\_Date Order\_Month;

**run**;

e)

**data** work.delays;

set orion.orders;

where Order\_Date + **4** < Delivery\_Date

and Employee\_ID = **99999999**;

Order\_Month = month(Order\_Date);

if Order\_Month = **8**;

label Order\_Date='Date Ordered'

Delivery\_Date='Date Delivered'

Order\_Month='Month Ordered';

keep Employee\_ID Customer\_ID Order\_Date Delivery\_Date Order\_Month;

**run**;

f)

**data** work.delays;

set orion.orders;

where Order\_Date + **4** < Delivery\_Date

and Employee\_ID = **99999999**;

Order\_Month = month(Order\_Date);

if Order\_Month = **8**;

label Order\_Date='Date Ordered'

Delivery\_Date='Date Delivered'

Order\_Month='Month Ordered';

format Order\_Date Delivery\_Date mmddyy10.;

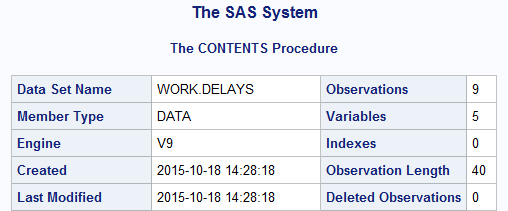
keep Employee\_ID Customer\_ID Order\_Date Delivery\_Date Order\_Month;

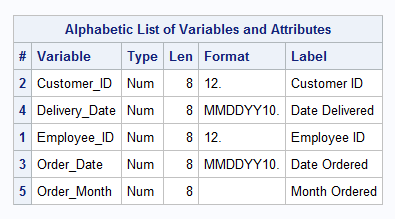
**run**;

5 g)

**proc** **contents** data = work.delays;

**run**;





h)

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

**run**;

