**MBAN 6120 Assignment 1**

**Chapter 3 Level I and II Exercises**

1 a) b)

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

/\* This program uses an INFILE statement to read a raw data file. \*/

/\* The INFILE statement includes a full path for Microsoft Windows. \*/

/\* \*/

/\* For UNIX or SAS onDemand: \*/

/\* Replace the INFILE statement with the following statement: \*/

/\* infile "&path/donation.dat"; \*/

/\* \*/

/\* For z/OS: \*/

/\* Replace the INFILE statement with the following statement: \*/

/\* infile "&path..rawdata(donation)"; \*/

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

**data** work.donations;

infile "&path\donation.dat";

input Employee\_ID Qtr1 Qtr2 Qtr3 Qtr4;

Total=sum(Qtr1,Qtr2,Qtr3,Qtr4);

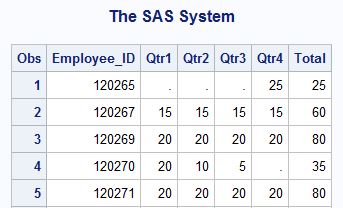
**run**;

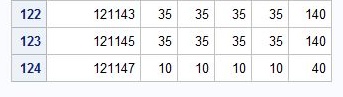
**proc** **contents** data=work.donations;

**run**;

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

**run**;





2 a) b)

**data** work.newpacks;

input Supplier\_Name $ **1**-**20** Supplier\_Country $ **23**-**24**

Product\_Name $ **28**-**70**;

datalines;

Top Sports DK Black/Black

Top Sports DK X-Large Bottlegreen/Black

Top Sports DK Comanche Women's 6000 Q Backpack. Bark

Miller Trading Inc US Expedition Camp Duffle Medium Backpack

Toto Outdoor Gear AU Feelgood 55-75 Litre Black Women's Backpack

Toto Outdoor Gear AU Jaguar 50-75 Liter Blue Women's Backpack

Top Sports DK Medium Black/Bark Backpack

Top Sports DK Medium Gold Black/Gold Backpack

Top Sports DK Medium Olive Olive/Black Backpack

Toto Outdoor Gear AU Trekker 65 Royal Men's Backpack

Top Sports DK Victor Grey/Olive Women's Backpack

Luna sastreria S.A. ES Hammock Sports Bag

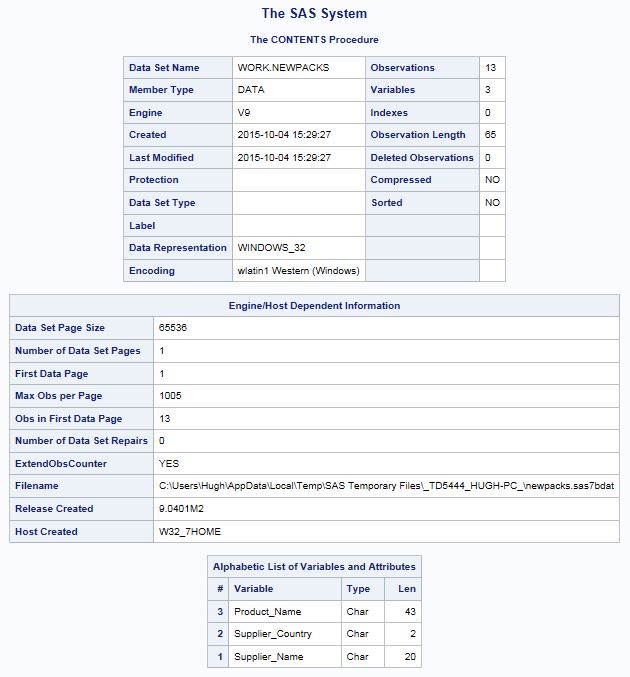
Miller Trading Inc US Sioux Men's Backpack 26 Litre.

;

**run**;

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

**run**;

2 c) 

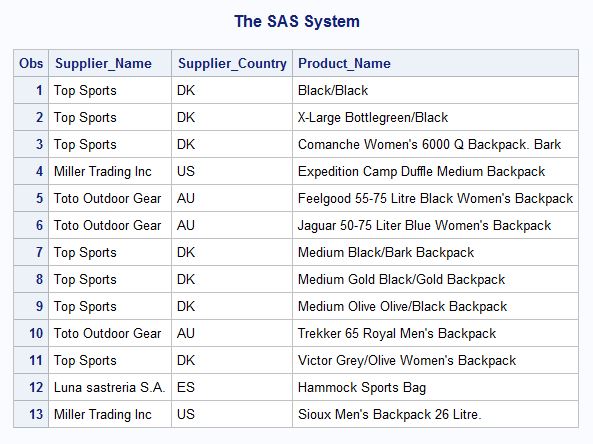
There are 13 observations in the data set.

There are 3 variables in the data set.

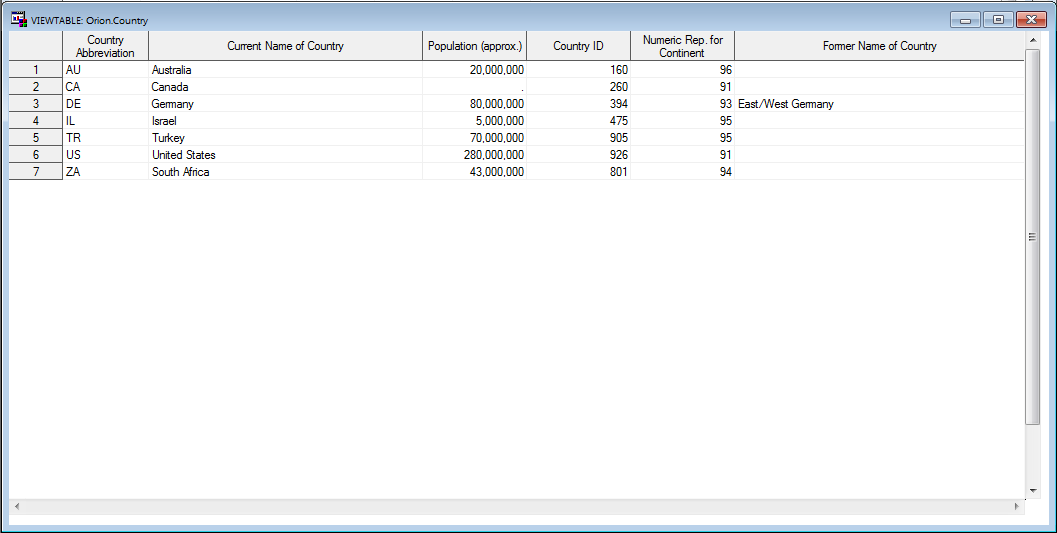
The length of the variable Product\_Name is 43 bytes

2 d) **proc** **print** data=work.newpacks;

**run**;



4 a)



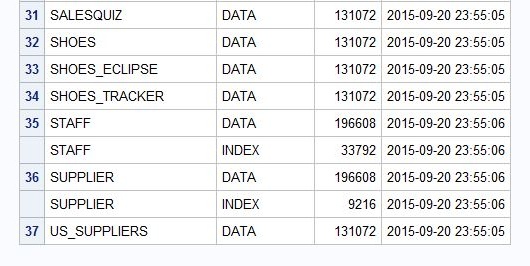
There are 7 observations in the **orion.country** data set

There are 6 variables in the **orion.country** data set

The name of the last country in the data set is **South Africa**

4 b) **proc** **contents** data=orion.\_all\_ nods;

**run**;



The name of the last member listed is **US\_SUPPLIERS**

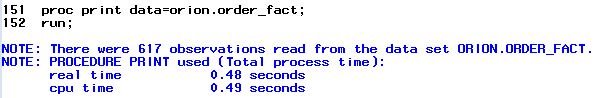
5 a) **proc** **contents** data=orion.staff;

**run**;

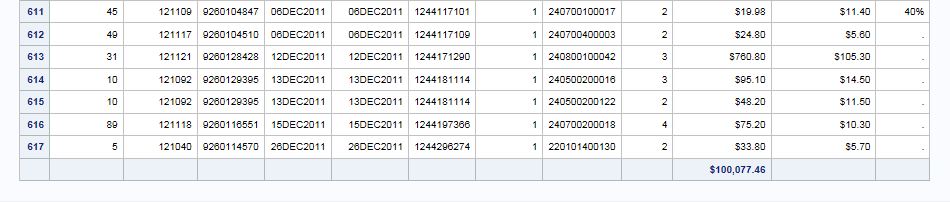
The information from the contents procedure tells us the following information:

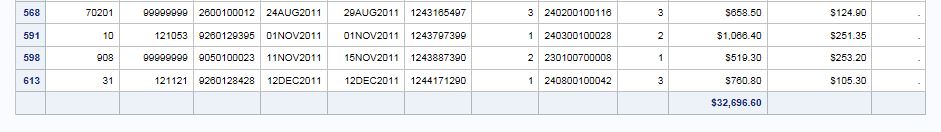
* The data set has 424 observations, 10 variables, 2 indices and 1 integrity constraint
* The data set was created and last modified on Sept 20, 2015
* The primary key \_PK0001\_, which has variables Employee\_ID and Start\_Date, is the integrity constraint
* The Indices are Employee\_ID and \_PK0001\_

**Chapter 4 Level I and II Exercises**

1 a) 

b)



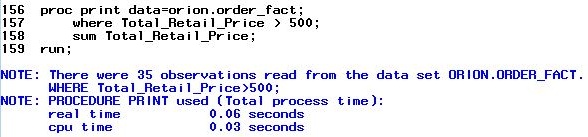
c) 

Note that the numbers are not sequential. The original observation numbers are displayed.

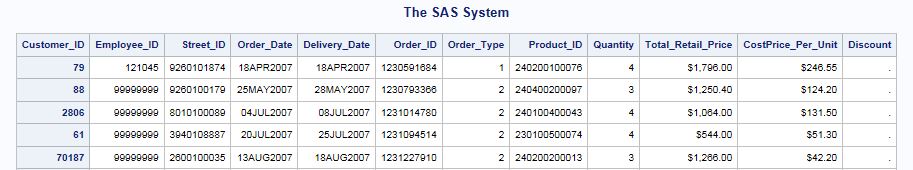
The sum of **Total\_Retail\_Price** changed to reflect only the subset

d) To verify thenumber of observations in the results with the Obs column suppressed,

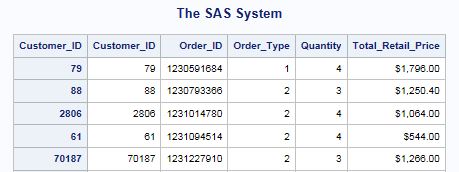
simply check the log.



1 e) When the ID statement is added, Customer\_ID becomes the leftmost column and is displayed on each line of the observation.



f) When the VAR statement is added there are two Customer\_ID columns. The first column is the ID field, and the second one is included because Customer\_ID is listed in the VAR statement.



g)

**proc** **print** data=orion.order\_fact noobs;

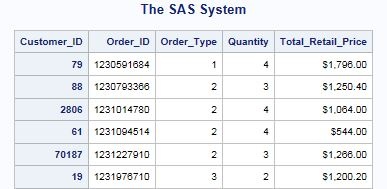
where Total\_Retail\_Price > **500**;

id Customer\_ID;

var Order\_ID Order\_Type Quantity Total\_Retail\_Price;

sum Total\_Retail\_Price;

**run**;



2 a)

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

**run**;

b)

**proc** **print** data=orion.customer\_dim noobs;

where Customer\_Age between **30** and **40**;

**run**;

c)

**proc** **print** data=orion.customer\_dim noobs;

where Customer\_Age between **30** and **40**;

id Customer\_ID;

**run**;

d)

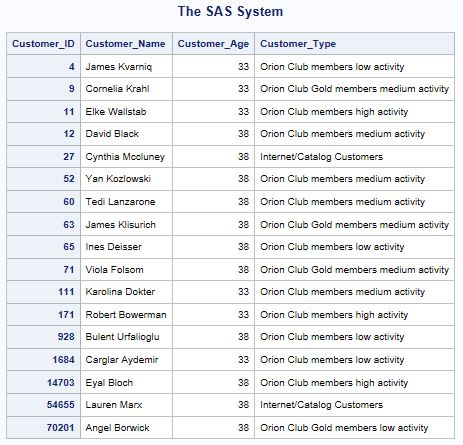
**proc** **print** data=orion.customer\_dim noobs;

where Customer\_Age between **30** and **40**;

id Customer\_ID;

var Customer\_Name Customer\_Age Customer\_Type;

**run**;



5 a) b)

**proc** **sort** data=orion.employee\_payroll out=work.sort\_salary;

by salary;

**run**;

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

**run**;





6 a) b)

**proc** **sort** data=orion.employee\_payroll out=work.sort\_salary2;

by Employee\_Gender descending Salary;

**run**;

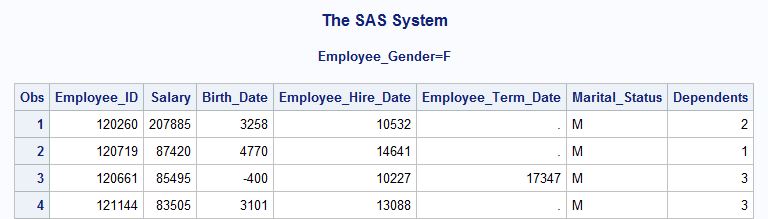
**proc** **print** data=work.sort\_salary2;

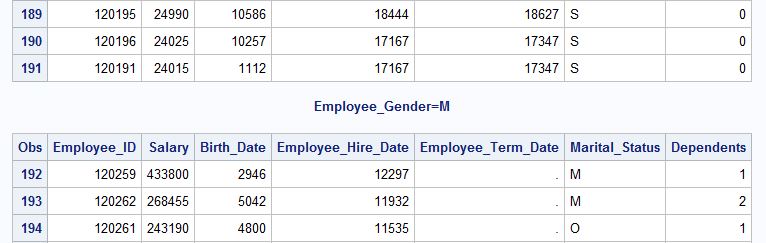
by Employee\_Gender;

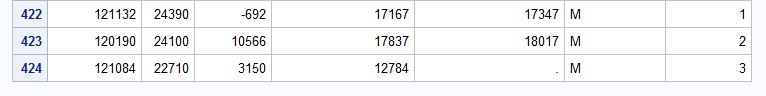
**run**;

**quit**;

6 b)







7 a)

**proc** **sort** data=orion.employee\_payroll out=work.sort\_sal;

by Employee\_Gender descending Salary;

**run**;

b)

**proc** **print** data=work.sort\_sal noobs;

by Employee\_Gender;

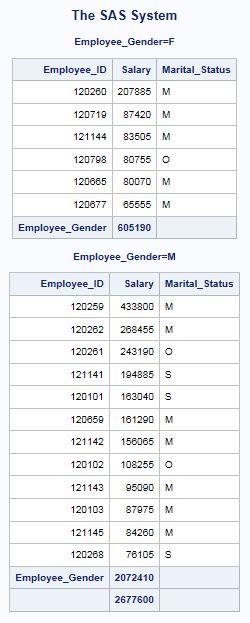
sum Salary;

where Employee\_Term\_Date is missing and Salary > **65000**;

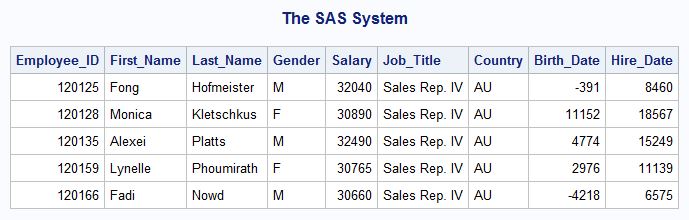
var Employee\_ID Salary Marital\_Status;

**run**;

7 b)



9 a)



9 b) c) d) e)

title1 'Australian Sales Employees';

title2 'Senior Sales Representatives';

footnote1 'Job\_Title: Sales Rep. IV';

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

where Country='AU' and Job\_Title contains 'Rep. IV';

var Employee\_ID First\_Name Last\_Name Gender Salary;

**run**;

title;

footnote;



10 a)

title 'Entry-level Sales Representatives';

footnote 'Job\_Title: Sales Rep. I';

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

where Country='US' and Job\_Title='Sales Rep. I';

var Employee\_ID First\_Name Last\_Name Gender Salary;

label Employee\_ID = "Employee ID"

First\_Name = "First Name"

Last\_Name = "Last Name"

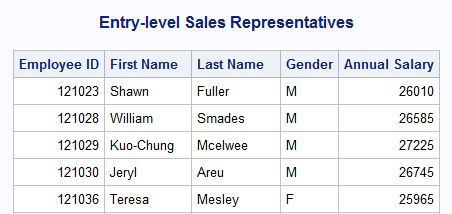
Salary = "Annual Salary";

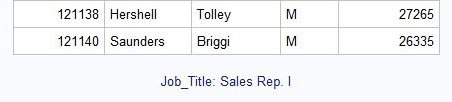
**run**;

title;

footnote;

10 a)





b)

title 'Entry-level Sales Representatives';

footnote 'Job\_Title: Sales Rep. I';

**proc** **print** data=orion.sales noobs split=' ';

where Country='US' and Job\_Title='Sales Rep. I';

var Employee\_ID First\_Name Last\_Name Gender Salary;

label Employee\_ID = "Employee ID"

First\_Name = "First Name"

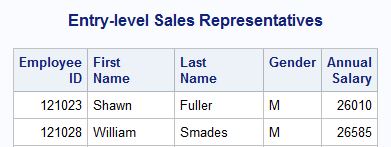
Last\_Name = "Last Name"

Salary = "Annual Salary";

**run**;

title;

footnote;



11 a)

**proc** **sort** data=orion.employee\_addresses out=work.address;

where Country='US';

by State City Employee\_Name;

**run**;

title 'US Employees by State';

**proc** **print** data=work.address noobs split=' ';

var Employee\_ID Employee\_Name City Postal\_Code;

label Employee\_ID = "Employee ID"

Employee\_Name = "Name"

Postal\_Code = "Zip Code";

by State;

**run**;

title;

