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### Homework #2-SOLUTIONS

# Part I:

1. Displaying orion.customer\_dim with the PRINT Procedure

```
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;
```

2. Sorting orion.employee\_payroll and Displaying a Subset of the New Data Set

```
proc sort data=orion.employee_payroll out=work.sort_sal;
  by Employee_Gender descending Salary;
run;

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;
```

3. Writing an Enhanced Detail Report

```
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;
```

## Part II:

1. Displaying Formatted Values in a Detail Report

2. Defining Ranges in User-Defined Formats

```
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;
```

# Supplemental exercise for STAT 625 and Honors credit

1. Producing a Default Listing Report of orion.order\_fact (SAS Windowing Environment)

```
options ls=max;
proc print data=orion.order_fact;
```

```
run;
options ls=96;
proc print data=orion.order_fact headings=v;
run;
```

- a. Submit a simple PROC PRINT step to produce a default listing report.
- b. What are the minimum and maximum values for the LINESIZE= option? The minimum value for LINESIZE= is 64 and the maximum size is MAX.

When you are finished, use the following statement to reset the line size to 96: options ls=96;

c. How do you specify vertical headings? **HEADINGS=V** forces all column headings to be displayed vertically.

How do you specify horizontal headings? **HEADINGS=H forces all column headings to be displayed horizontally.** 

### 2. Retaining the First Observation of Each BY Group

### 3. Exploring Formats by Category

```
proc print data=orion.sales noobs;
  var Employee_ID First_Name Last_Name Job_Title;
  format First_Name Last_Name $upcase. Job_Title $quote.;
run;
```

## 4. Exploring Format Storage Options

What option enables you to store the formats in a permanent library? LIBRARY=

What option causes SAS to look for formats in permanent libraries? FMTSEARCH=