

Homework #3-SOLUTIONS

Part I

1. Creating a SAS Data Set

```
data work.assistant;
  set orion.staff;
  where Job_Title contains 'Assistant' and
        Salary<26000;
  Increase=Salary*.10;
  New_Salary=Salary+Increase;
run;

proc print data=work.assistant;
  id Employee_ID;
  var Job_Title Salary Increase New_Salary;
  format Salary Increase New_Salary dollar10.2;
run;
```

2. Subsetting Observations Based on Three Conditions

```
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;

proc contents data=work.delays;
run;

proc print data=work.delays;
run;
```

Part II

3. Accessing an Excel Worksheet

```
options validvarname=v7;
*libname prod excel "&path\products.xlsx";
*libname prod pcfiles path="&path\products.xlsx";

proc contents data=prod._all_;
run;

data work.golf;
    set prod.'sports$'n;
    where Category='Golf';
```

Part III

Supplemental exercise for STAT 625 and Honors credit

4. Using the SOUNDS-LIKE Operator to Select Observations

```
data work.tony;
    set orion.customer_dim;
    where Customer_FirstName=* 'Tony';
run;

proc print data=work.tony;
    var Customer_FirstName Customer_LastName;
run;
```

5. Using an IF-THEN/DELETE Statement to Subset Observations

```
data work.bigdonations;
    set orion.employee_donations;
    Total=sum(Qtr1,Qtr2,Qtr3,Qtr4);
    NumQtrs=n(Qtr1,Qtr2,Qtr3,Qtr4);
    if Total<50 or NumQtrs<4 then delete;
    label Qtr1='First Quarter'
          Qtr2='Second Quarter'
          Qtr3='Third Quarter'
          Qtr4='Fourth Quarter';
    drop Recipients Paid_By;
run;

proc contents data=work.bigdonations;
run;

proc print data=work.bigdonations label noobs;
run;
```

```
drop Category;
label Name='Golf Products';
run;

libname prod clear;
proc print data=work.golf label;
run;
```

```
/* Alternate solution */

options validvarname=v7;
libname prod xlsx "&path\products.xlsx";

proc contents data=prod._all_;
run;

data work.golf;
    set prod.sports;
    where Category='Golf';
    drop Category;
    label Name='Golf Products';
run;

libname prod clear;

proc print data=work.golf label;
run;
```