

Homework#9 – Solution

```
libname learn 'J:\CLASSES\STAT46';
```

```
*Exercise# 1;
```

```
□ proc sort data=learn.sales out=sales;  
    by region;  
run;
```

```
title ' Sales Figures from the Sales Data Set';
```

```
□ proc print data=sales;  
    by region;  
    id region;  
    var Quantity TotalSales;  
    sumby Region;  
    Format TotalSales Dollar9.;  
run;
```

```
*Exercise# 2;  
title "Statistics from Blood by Gender";
```

```
❏ proc report data=learn.blood;  
    column Gender WBC RBC;  
    define Gender / group;  
    define WBC / analysis mean "Average WBC" format=8.2 ;  
    define RBC/ analysis mean "Average RBC" format = 5.2;  
    rbreak after / summarize;  
run;
```

```
*Exercise# 3;  
  
title 'Subjects of age 45 or older, in a descending order';  
Footnote1 'SBP is for Systolic Blood Pressure';  
Footnote2 'DBP is for Diastolic Blood Pressure';
```

```
❏ proc sort data=learn.bloodpressure out=learn.ageorder;  
    by descending age;  
run;
```

```
❏ proc print data=learn.bloodpressure;  
    var Gender Age SBP DBP;  
    where Age >=45;  
run;
```

```
title 'Subjects in Gender and Age Order';  
Footnote;
```

```
❏ proc report data=learn.ageorder;  
    column Gender Age SBP DBP;  
    define Gender / order width = 6;  
    define Age / order width = 5;  
    define SBP / display 'Systolic Blood Pressure' width = 8;  
    define DBP / display 'Diastolic Blood Pressure' width = 9;  
run;|
```

```

* Exericse# 4;
title ;


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❏ Data _NULL_;
    set learn.insurance;

    File 'J:\CLASSES\STAT46\report.txt' PRINT;

    Put @15 'Insurance Report'
    //@10 'Insurance Policy contract for ' Name ' is of type ' Type;

    Put _page_;
run;

```

Log:

```

❏4 libname learn 'J:\CLASSES\STAT46';
NOTE: Libref LEARN was successfully assigned as follows:
      Engine:          V9
      Physical Name: J:\CLASSES\STAT46
65
66 *Exercise# 1;
67 proc sort data=learn.sales out=sales;
68     by region;
69 run;

NOTE: There were 15 observations read from the data set LEARN.SALES.
NOTE: The data set WORK.SALES has 15 observations and 8 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.02 seconds
      cpu time           0.00 seconds

70
71 title 'Sales Figures from the Sales Data Set';
72 proc print data=sales;
NOTE: Writing HTML Body file: sashtml1.htm
73     by region;
74     id region;
75     var Quantity TotalSales;
76     sumby Region;
77     Format TotalSales Dollar9.;
78 run;

NOTE: There were 15 observations read from the data set WORK.SALES.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.51 seconds
      cpu time           0.23 seconds

79


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```

```

16 *Exercise# 2;
17 title "Statistics from Blood by Gender";
18
19 proc report data=learn.blood;
20     column Gender WBC RBC;
21     define Gender / group;
22     define WBC / analysis mean "Average WBC" format=8.2 ;
23     define RBC / analysis mean "Average RBC" format = 5.2;
24     rbreak after / summarize;
25 run;

```

NOTE: There were 1000 observations read from the data set LEARN.BLOOD.

NOTE: PROCEDURE REPORT used (Total process time):

real time	0.63 seconds
cpu time	0.01 seconds

```

26
27 *Exercise# 3;
28
29 title 'Subjects of age 45 or older, in a descending order';
30 Footnote1 'SBP is for Systolic Blood Pressure';
31 Footnote2 'DBP is for Diastolic Blood Pressure';
32
33 proc sort data=learn.bloodpressure out=learn.ageorder;
34     by descending age;
35 run;

```

NOTE: There were 8 observations read from the data set LEARN.BLOODPRESSURE.

NOTE: The data set LEARN.AGEORDER has 8 observations and 4 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time	0.09 seconds
cpu time	0.01 seconds

```

36
37 proc print data=learn.bloodpressure;
38     var Gender Age SBP DBP;
39     where Age >=45;
40 run;

```

NOTE: There were 5 observations read from the data set LEARN.BLOODPRESSURE.
WHERE Age>=45;

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.02 seconds
cpu time	0.03 seconds

```

52 * Exercise# 4;
53 title ;
54 Data _NULL_;
55     set learn.insurance;
56
57     File 'J:\CLASSES\STAT46\report.txt' PRINT;
58
59     Put @15 'Insurance Report'
60     //@10 'Insurance Policy contract for ' Name ' is of type ' Type;
61
62     Put _page_;
63 run;

```

NOTE: The file 'J:\CLASSES\STAT46\report.txt' is:
 Filename=J:\CLASSES\STAT46\report.txt,
 RECFM=P,LRECL=98,File Size (bytes)=0,
 Last Modified=12Nov2018:13:26:10,
 Create Time=30Oct2018:13:41:49

NOTE: 8 records were written to the file 'J:\CLASSES\STAT46\report.txt'.
 The minimum record length was 30.
 The maximum record length was 60.

NOTE: There were 4 observations read from the data set LEARN.INSURANCE.

NOTE: DATA statement used (Total process time):
 real time 0.24 seconds
 cpu time 0.03 seconds
