Program Summary - HW9.sas

Execution Environment

Author: sasdemo

File: /folders/myfolders/Homework/HW9/HW9.sas SAS Platform: Linux LIN X64 2.6.32-696.20.1.el6.x86 64

SAS Host: LOCALHOST

SAS Version: 9.04.01M5P09132017

SAS Locale: en_US

Submission Time: 11/19/2018, 9:08:24 PM

Browser Host: 10.0.2.2

User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)

Chrome/70.0.3538.102 Safari/537.36

Application Server: LOCALHOST.LOCALDOMAIN

Code: HW9.sas

```
/* HW 9 - Jonathan Wilson */
ods pdf file="/folders/myfolders/Homework/HW9/summary.pdf";
%let path=/folders/myfolders/Homework/HW9;
libname mydata "&path";
title1 'HW 9';
data employees_sales;
   input lname $ fname $ month $ sales;
   datalines;
Jones Ted Jan 28500
Jones Ted Feb 31200
Jones Ted Mar 14500
Jones Ted Apr 23000
Jones Ted May 42670
Jones Ted Jun 52000
Jones Ted Jul 1200
Jones Ted Aug 13000
Jones Ted Sep 19500
Jones Ted Oct 18430
Jones Ted Nov 19230
Jones Ted Dec 68201
Hall Kim Jan 12500
Hall Kim Feb 13400
Hall Kim Mar 17800
Hall Kim Apr 21200
Hall Kim May 23900
Hall Kim Jun 24100
Hall Kim Jul 25200
Hall Kim Aug 23950
Hall Kim Sep 22200
Hall Kim Oct 21090
Hall Kim Nov 18040
Hall Kim Dec 14210
Clark Guy Jan 32101
Clark Guv Feb 43001
Clark Guy Mar 29050
```

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11/19/2018
 Clark Guy Apr 25010
 Clark Guy May 22999
 Clark Guy Jun 20500
 Clark Guy Jul 21100
 Clark Guy Aug 23400
 Clark Guy Sep 27890
 Clark Guy Oct 31090
 Clark Guy Nov 52300
 Clark Guy Dec 41230
 Call Steve Jan 12090
 Call Steve Feb 10901
 Call Steve Mar 9080
 Call Steve Apr 8541
 Call Steve May 7521
 Call Steve Jun 5300
 Call Steve Jul 2510
 Murphy Cori Jul 5700
 Murphy Cori Aug 6900
 Murphy Cori Sep 10200
 Murphy Cori Oct 12050
 Murphy Cori Nov 26800
 Murphy Cori Dec 25963
 Love Sue Jun 4800
 Love Sue Jul 6900
 Love Sue Aug 9500
 Love Sue Sep 13420
 Love Sue Oct 17890
 Love Sue Nov 21090
 Love Sue Dec 22500
 /*********Employees1 Dataset********/
 data mydata.employees9;
     set mydata.employees1;
     s="nos";
     b1= UPCASE(CAT(TRIM(boss),s));
     b2=tranwrd(b1, "NOS", "SON");
 run;
 proc sort data=mydata.employees9;
    by lname;
 run;
 proc print data=mydata.employees9 label noobs;
     label lname="Last Name" fname="First Name";
     format state $12.;
     var lname fname age job gender group state boss local s b1 b2;
     title2 'Employees1 Dataset';
 run;
 /*******Employee Infomation and Sales Merged********/
 proc sort data=mydata.employees9;
    by lname;
 run;
 proc sort data=employees_sales;
    by lname;
 run;
```

```
data salesmerged;
   merge mydata.employees9 employees sales;
   by lname;
run;
proc print data=salesmerged noobs;
    var lname fname age job gender group state boss local s b1 b2 month sales;
    title2 'Employee Infomation and Sales Merged';
run;
/*******Total Annual Sales for each Sales Rep********/
proc means data=salesmerged sum nonobs nway noprint;
   var sales:
   class lname fname;
   ID job;
   format sales dollar10.;
   where job in ('SR2','SR1');
   output out=salessum sum=SalesSum;
run;
proc print data=salessum label noobs;
    var lname fname job SalesSum;
    label lname="Last Name" fname="First Name" job="Position" SalesSum="Total Sales";
    title2 'Total Annual Sales for each Sales Rep';
run;
ods pdf close;
Log: HW9.sas
Notes (31)
           OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
 NOTE: ODS statements in the SAS Studio environment may disable some output features.
 73
           /* HW 9 - Jonathan Wilson */
 74
           ods pdf file="/folders/myfolders/Homework/HW9/summary.pdf";
 75
 NOTE: Writing ODS PDF output to DISK destination "/folders/myfolders/Homework/HW9/summary.pdf", printer "PDF".
 76
 77
           %let path=/folders/myfolders/Homework/HW9;
 78
           libname mydata "&path";
 NOTE: Libref MYDATA was successfully assigned as follows:
                    V9
      Physical Name: /folders/myfolders/Homework/HW9
 79
           title1 'HW 9';
 80
 81
 82
           data employees_sales;
              input lname $ fname $ month $ sales;
 83
 84
              datalines;
 NOTE: The data set WORK.EMPLOYEES SALES has 56 observations and 4 variables.
 NOTE: DATA statement used (Total process time):
      real time
                         0.00 seconds
                         0.01 seconds
      cpu time
 141
           ;
 142
           /*********Employees1 Dataset********/
 143
```

171172 data salesmerged;

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                                                     Program Summary - HW9.sas
  173
                merge mydata.employees9 employees sales;
  174
                by lname;
  175
             run;
  NOTE: MERGE statement has more than one data set with repeats of BY values.
  NOTE: There were 13 observations read from the data set MYDATA.EMPLOYEES9.
  NOTE: There were 56 observations read from the data set WORK.EMPLOYEES SALES.
  NOTE: The data set WORK.SALESMERGED has 62 observations and 14 variables.
  NOTE: DATA statement used (Total process time):
        real time
                            0.01 seconds
                            0.01 seconds
        cpu time
  176
  177
             proc print data=salesmerged noobs;
  178
             var lname fname age job gender group state boss local s b1 b2 month sales;
  179
             title2 'Employee Infomation and Sales Merged';
  180
             run;
  NOTE: There were 62 observations read from the data set WORK.SALESMERGED.
  NOTE: PROCEDURE PRINT used (Total process time):
        real time
                            0.51 seconds
        cpu time
                            0.52 seconds
  181
             /********Total Annual Sales for each Sales Rep********/
  182
  183
  184
             proc means data=salesmerged sum nonobs nway noprint;
  185
                var sales;
  186
                class lname fname;
  187
                ID job;
  188
                format sales dollar10.;
  189
                where job in ('SR2', 'SR1');
  190
                output out=salessum sum=SalesSum;
  191
             run;
  NOTE: There were 45 observations read from the data set WORK.SALESMERGED.
        WHERE job in ('SR1', 'SR2');
  NOTE: The data set WORK.SALESSUM has 6 observations and 6 variables.
  NOTE: PROCEDURE MEANS used (Total process time):
        real time
                            0.01 seconds
        cpu time
                            0.01 seconds
  192
  193
             proc print data=salessum label noobs;
  194
             var lname fname job SalesSum;
             label lname="Last Name" fname="First Name" job="Position" SalesSum="Total Sales";
  195
  196
             title2 'Total Annual Sales for each Sales Rep';
  197
             run;
  NOTE: There were 6 observations read from the data set WORK.SALESSUM.
  NOTE: PROCEDURE PRINT used (Total process time):
        real time
                            0.07 seconds
        cpu time
                            0.07 seconds
  198
  199
             ods pdf close;
  NOTE: ODS PDF printed 4 pages to /folders/myfolders/Homework/HW9/summary.pdf.
  200
             OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
  201
  214
```

Results: HW9.sas

HW 9 Employees1 Dataset

Last Name	First Name	age	job	gender	group	state	boss	local	s	b1	b2
Allen	Joe	45	Man	М	1	Vermont	john	22	nos	JOHNNOS	JOHNSON
Call	Steve	43	SR2	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON
Grant	Herbert	51	Jan	М	3	Texas	harold	11	nos	HAROLDNOS	HAROLDSON
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON
Jones	Ted	38	SR2	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON
Jones	Kim	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON
Love	Sue	27	SR2	F	2	Washington	carl	33	nos	CARLNOS	CARLSON
McCall	Mac	26	Sec	F	1	Texas	john	11	nos	JOHNNOS	JOHNSON
Murphy	Cori	21	SR1	F	2	Washington	carl	33	nos	CARLNOS	CARLSON
Schmidt	Henry	62	Mec	М	4	Washington	jacob	33	nos	JACOBNOS	JACOBSON
Smith	Al	55	Man	М	1	Texas	john	11	nos	JOHNNOS	JOHNSON
Sue	Joe	25	Mec	F	4	Texas	jacob	11	nos	JACOBNOS	JACOBSON

HW 9 Employee Infomation and Sales Merged

Iname	fname	age	job	gender	group	state	boss	local	s	b1	b2	month	sales
Allen	Joe	45	Man	М	1	Vermont	john	22	nos	JOHNNOS	JOHNSON		
Call	Steve	43	SR2	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Jan	12090
Call	Steve	43	SR2	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Feb	10901
Call	Steve	43	SR2	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Mar	9080
Call	Steve	43	SR2	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Apr	8541
Call	Steve	43	SR2	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	May	7521
Call	Steve	43	SR2	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Jun	5300
Call	Steve	43	SR2	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Jul	2510
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Jan	32101
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Feb	43001
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Mar	29050
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Apr	25010
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	May	22999
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Jun	20500
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Jul	21100
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Aug	23400
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Sep	27890
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Oct	31090
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Nov	52300
Clark	Guy	31	SR1	М	2	Maryland	carl	44	nos	CARLNOS	CARLSON	Dec	41230
Grant	Herbert	51	Jan	М	3	Texas	harold	11	nos	HAROLDNOS	HAROLDSON		
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Jan	12500
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Feb	13400
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Mar	17800
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Apr	21200
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	May	23900
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Jun	24100
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Jul	25200
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Aug	23950
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Sep	22200
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Oct	21090
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Nov	18040
Hall	Kim	22	SR1	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Dec	14210
Jones	Ted	38	SR2	М	2	Vermont	carl	22	nos	CARLNOS	CARLSON	Jan	28500
Jones	Ted	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	Feb	31200
Jones	Ted	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	Mar	14500
Jones	Ted	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	Apr	23000
Jones	Ted	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	May	42670
Jones	Ted	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	Jun	52000
Jones	Ted	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	Jul	1200

Program Summary - HW9.sas

Jones	Ted				group	state	boss	local	S	b1	b2	month	sales
		19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	Aug	13000
Jones	Ted	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	Sep	19500
Jones	Ted	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	Oct	18430
Jones	Ted	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	Nov	19230
Jones	Ted	19	Sec	F	1	Maryland	john	44	nos	JOHNNOS	JOHNSON	Dec	68201
Love	Sue	27	SR2	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Jun	4800
Love	Sue	27	SR2	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Jul	6900
Love	Sue	27	SR2	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Aug	9500
Love	Sue	27	SR2	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Sep	13420
Love	Sue	27	SR2	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Oct	17890
Love	Sue	27	SR2	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Nov	21090
Love	Sue	27	SR2	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Dec	22500
McCall	Mac	26	Sec	F	1	Texas	john	11	nos	JOHNNOS	JOHNSON		
Murphy	Cori	21	SR1	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Jul	5700
Murphy	Cori	21	SR1	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Aug	6900
Murphy	Cori	21	SR1	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Sep	10200
Murphy	Cori	21	SR1	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Oct	12050
Murphy	Cori	21	SR1	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Nov	26800
Murphy	Cori	21	SR1	F	2	Washington	carl	33	nos	CARLNOS	CARLSON	Dec	25963
Schmidt	Henry	62	Mec	М	4	Washington	jacob	33	nos	JACOBNOS	JACOBSON		
Smith	Al	55	Man	М	1	Texas	john	11	nos	JOHNNOS	JOHNSON		
Sue	Joe	25	Mec	F	4	Texas	jacob	11	nos	JACOBNOS	JACOBSON		

HW 9 Total Annual Sales for each Sales Rep

Last Name	First Name	Position	Total Sales
Call	Steve	SR2	\$55,943
Clark	Guy	SR1	\$369,671
Hall	Kim	SR1	\$237,590
Jones	Ted	SR2	\$28,500
Love	Sue	SR2	\$96,100
Murphy	Cori	SR1	\$87,613