Program Summary - 7hw.sas

Execution Environment

Author: sasdemo

File: /folders/myshortcuts/STAT124/SASUniversityEdition/myfolders/7hw/7hw.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: 9/20/2018, 11:45:40 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/69.0.3497.100 Safari/537.36

Application Server: LOCALHOST.LOCALDOMAIN

Code: 7hw.sas

```
/* Declaring lib */
libname mydata '/folders/myshortcuts/STAT124/SASUniversityEdition/myfolders/7hwData';
/* Diamonds data */
filename diamonds '/folders/myshortcuts/STAT124/SASUniversityEdition/myfolders/7hw/Diamonds.csv';
data mydata.diamonds (drop=Rater);
    infile diamonds delimiter=',' firstobs=2 dsd; /* dsd for commas in rows */
    input ID Weight Color $ Clarity $ Rater $ Price $;
run;
/* Bodyfat data */
filename bodyfat '/folders/myshortcuts/STAT124/SASUniversityEdition/myfolders/7hw/BodyFat.txt';
data mydata.bodyfat;
    infile bodyfat delimiter='09'x firstobs=2;
    input ID Date $
          BodyFat Density Age
          Weight Height
          Neck Chest Abdomen;
run;
/* FTSE data */
filename ftse '/folders/myshortcuts/STAT124/SASUniversityEdition/myfolders/7hw/FTSE.csv';
data mydata.ftse;
    infile ftse delimiter=',' firstobs=2 dsd; /* dsd for commas in rows */
   input Date $date11. Price $ Open $ High $ Low $ Vol $ Change $;
/* I've looked all over and many resources say date11. is the informat to handle DD-MMM-YYYY */
/* I cannot figure out why there are still only 8 characters for the Date column */
/* I've spent many hours trying to figure this out */
run;
/* Employees data */
data mydata.employees;
    input lname $ fname $ Age Job $ Gender $ Group State $;
    datalines;
Smith Al 55 Man M 1 Texas
Jones Ted 38 SR2 M 2 Vermont
Hall Kim 22 SR1 M 2 Vermont
Jones Kim 19 Sec F 1 Maryland
Clark Guy 31 SR1 M 2
```

```
Grant Herbert 51 Jan M 3 Texas
Schmidt Henry 62 Mec M 4 Washington
Allen Joe 45 Man M 1 Vermont
Call Steve 43 SR2 M 2 Maryland
McCall Mac 26 Sec F 1 Texas
Sue Joe 25 Mec F 4
Murphy Cori 21 SR1 F 2 Washington
Love Sue 27 SR2 F 2 Washington
run;
/* All proc steps */
proc print data=mydata.diamonds noobs;
proc print data=mydata.bodyfat noobs;
proc print data=mydata.ftse;
proc print data=mydata.employees label;
    label lname='Last Name';
    label fname='First Name';
run;
```

Log: 7hw.sas

```
Notes (25)
```

```
OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
72
73
           /* Declaring lib */
           libname mydata '/folders/myshortcuts/STAT124/SASUniversityEdition/myfolders/7hwData';
NOTE: Libref MYDATA was successfully assigned as follows:
      Engine:
      Physical Name: /folders/myshortcuts/STAT124/SASUniversityEdition/myfolders/7hwData
75
76
           /* Diamonds data */
           filename diamonds '/folders/myshortcuts/STAT124/SASUniversityEdition/myfolders/7hw/Diamonds.csv';
77
           data mydata.diamonds (drop=Rater);
78
           infile diamonds delimiter=',' firstobs=2 dsd; /* dsd for commas in rows */
79
80
           input ID Weight Color $ Clarity $ Rater $ Price $;
81
           run;
NOTE: The infile DIAMONDS is:
      Filename=/folders/myshortcuts/STAT124/SASUniversityEdition/myfolders/7hw/Diamonds.csv,
      Owner Name=root, Group Name=vboxsf,
      Access Permission=-rwxrwx---,
      Last Modified=20Sep2018:20:14:46,
      File Size (bytes)=2900
NOTE: 99 records were read from the infile DIAMONDS.
      The minimum record length was 16.
      The maximum record length was 29.
NOTE: The data set MYDATA.DIAMONDS has 99 observations and 5 variables.
NOTE: DATA statement used (Total process time):
      real time
                          0.02 seconds
                          0.00 seconds
      cpu time
82
83
           /* Bodyfat data */
           filename bodyfat '/folders/myshortcuts/STAT124/SASUniversityEdition/myfolders/7hw/BodyFat.txt';
84
85
           data mydata.bodyfat;
           infile bodyfat delimiter='09'x firstobs=2;
86
```

```
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                                                       Program Summary - 7hw.sas
  122
  123
             /* All proc steps */
  124
             proc print data=mydata.diamonds noobs;
  NOTE: There were 99 observations read from the data set MYDATA.DIAMONDS.
  NOTE: PROCEDURE PRINT used (Total process time):
                            0.13 seconds
        real time
        cpu time
                            0.12 seconds
  125
             proc print data=mydata.bodyfat noobs;
  NOTE: There were 10 observations read from the data set MYDATA.BODYFAT.
  NOTE: PROCEDURE PRINT used (Total process time):
                            0.04 seconds
        real time
                            0.04 seconds
        cpu time
  126
             proc print data=mydata.ftse;
  NOTE: There were 49 observations read from the data set MYDATA.FTSE.
  NOTE: PROCEDURE PRINT used (Total process time):
        real time
                            0.10 seconds
                            0.09 seconds
        cpu time
             proc print data=mydata.employees label;
  127
  128
             label lname='Last Name';
             label fname='First Name';
  129
  130
             run;
  NOTE: There were 11 observations read from the data set MYDATA.EMPLOYEES.
  NOTE: PROCEDURE PRINT used (Total process time):
                            0.03 seconds
        real time
                            0.03 seconds
        cpu time
  131
  132
  133
  134
  135
  136
             OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
  149
```

Results: 7hw.sas

| ID | Weight | Color | Clarity | Price |
|----|--------|-------|---------|---------|
| 1 | 0.30 | D | VS2 | \$1,302 |
| 2 | 0.30 | E | VS1 | \$1,510 |
| 3 | 0.30 | | VVS1 | \$1,510 |
| 4 | 0.30 | G | VS1 | \$1,260 |
| 5 | 0.31 | D | VS1 | \$1,641 |
| 6 | 0.31 | E | VS1 | \$1,555 |
| 7 | 0.31 | F | VS1 | \$1,427 |
| 9 | 0.31 | Н | VS2 | \$1,126 |
| 10 | 0.31 | 1 | VS1 | \$1,126 |
| 11 | 0.32 | F | VS1 | \$1,468 |
| 12 | 0.32 | G | | \$1,202 |
| 13 | 0.33 | E | VS2 | \$1,327 |
| 14 | 0.33 | 1 | VS2 | \$1,098 |
| 15 | 0.34 | Е | VS1 | \$1,693 |
| 17 | 0.34 | G | VS1 | \$1,410 |
| 18 | 0.34 | G | VS2 | \$1,269 |
| 20 | 0.34 | Н | VS2 | \$1,222 |
| 22 | 0.35 | F | VS1 | \$1,593 |

| | | Prograi | m Sumn | nary - /h |
|------------|--------|---------|-------------|-----------|
| ID | Weight | Color | Clarity | Price |
| 23 | 0.35 | G | VS1 | \$1,447 |
| 27 | 0.37 | F | VS2 | \$1,420 |
| 28 | 0.37 | Н | VS1 | \$1,420 |
| 29 | 0.40 | F | VS1 | \$1,911 |
| 30 | 0.40 | Н | VS1 | \$1,525 |
| 31 | 0.41 | F | VS1 | \$1,956 |
| 32 | 0.43 | Н | VVS2 | \$1,747 |
| 35 | 0.48 | G | VVS2 | \$2,532 |
| 37 | 0.50 | E | VS1 | \$3,501 |
| 38 | 0.50 | F | VVS2 | \$3,501 |
| 39 | 0.50 | F | VS1 | \$3,293 |
| 41 | 0.51 | F | VVS2 | \$3,567 |
| 42 | 0.51 | G | VS1 | \$3,205 |
| 56 | 0.56 | F | VS1 | \$3,667 |
| 57 | 0.56 | I | VVS2 | \$2,892 |
| 60 | 0.60 | F | VS1 | \$4,291 |
| 63 | 0.64 | G | VVS1 | \$4,759 |
| 67 | 0.70 | _ | VVS2 | \$5,122 |
| 69 | 0.71 | F | VVS2 | \$5,881 |
| 73 | 0.72 | F | VS2 | \$5,263 |
| 74 | 0.80 | 1 | VVS2 | \$5,441 |
| 78 | 0.86 | Н | VVS2 | \$6,882 |
| 79 | 0.89 | Н | VS1 | \$6,709 |
| 82 | 0.50 | G | VVS1 | \$3,432 |
| 83 | 0.51 | F | VVS1 | \$3,851 |
| 85 | 0.56 | E | VS1 | \$3,900 |
| 86 | 0.57 | Н | VVS1 | \$3,415 |
| 87 | 0.60 | H | IF VOC | \$4,291 |
| 92 | 0.70 | F | VS2 | \$5,122 |
| 94 | 0.70 | H F | VVS2 | \$5,122 |
| 123 124 | 1.00 | G | VS2 VVS2 | \$9,480 |
| 127 | 1.00 | G | VS2 | \$9,896 |
| 129 | 1.00 | ı | VS1 | \$8,095 |
| 130 | 1.00 | i | VS2 | \$7,818 |
| 133 | 1.01 | E | VS2 | \$9,853 |
| 134 | 1.01 | F | VS1 | \$10,272 |
| 135 | 1.01 | F | VS2 | \$9,573 |
| 152 | 0.18 | F | VVS1 | \$823 |
| 153 | 0.18 | | VVS2 | \$765 |
| 154 | 0.18 | G | IF | \$803 |
| 176 | 0.23 | F | IF | \$1,147 |
| 177 | 0.23 | G | IF | \$995 |
| 178 | 0.24 | Н | IF | \$1,108 |
| 198 | 0.31 | F | VVS1 | \$1,628 |
| 200 | 0.32 | Н | IF | \$1,462 |
| 201 | 0.33 | Н | IF | \$1,503 |
| 202 | 0.34 | F | VVS1 | \$1,773 |
| 204 | 0.35 | F | VVS1 | \$1,821 |
| 205 | 0.35 | | VVS2 | \$1,540 |
| 208 | 0.41 | 1 | VVS2 | \$1,506 |
| 209 | 0.47 | F | VVS2 | \$2,651 |
| 210 | 0.48 | F | VS1 | \$2,383 |
| 213 | 0.51 | F | VVS1 | \$3,722 |
| 217 | 0.56 | G | VVS2 | \$3,470 |
| 219 | 0.58 | F | VVS1 | \$4,209 |
| 220 | 0.58 | G | VVS1 | \$3,821 |
| 222 | 0.70 | G | VVS2 | \$5,326 |
| 225 | 0.78 | G | VVS2 | \$5,937 |
| 227 | 1.01 | G | VS1 | \$9,713 |
| 228 | 1.01 | Н | VS2 | \$8,873 |
| 230 | 0.50 | F | VVS1 | \$3,778 |
| 232 | 0.51 | F | VVS1 | \$3,851 |
| | | | | |

| ID | Weight | Color | Clarity | Price |
|-----|--------|-------|---------|---------|
| 244 | 0.60 | G | VS2 | \$3,421 |
| 245 | 0.60 | Н | VVS1 | \$3,925 |
| 246 | 0.61 | Н | VVS2 | \$3,616 |
| 247 | 0.62 | 1 | VVS2 | \$3,615 |
| 249 | 0.65 | 1 | VVS2 | \$3,643 |
| 251 | 0.70 | Е | VVS1 | \$6,867 |
| 253 | 0.70 | G | VVS1 | \$5,800 |
| 255 | 0.70 | Н | VS2 | \$4,346 |
| 257 | 0.71 | Н | | \$5,193 |
| 260 | 0.73 | G | VVS1 | \$6,041 |
| 262 | 0.80 | F | IF | \$8,611 |
| 263 | 0.80 | F | VS1 | \$6,905 |
| 265 | 0.80 | Н | VVS2 | \$6,416 |
| 269 | 0.81 | F | VS1 | \$6,988 |
| 270 | 0.81 | G | VS1 | \$6,495 |
| 288 | 1.00 | Н | VS1 | \$9,065 |
| 290 | 1.00 | I | VVS1 | \$8,788 |
| 293 | 1.00 | I | VS2 | \$7,818 |

| ID | Date | BodyFat | Density | Age | Weight | Height | Neck | Chest | Abdomen |
|----|----------|---------|---------|-----|--------|--------|------|-------|---------|
| 1 | 1/3/2005 | 12.6 | 1.0708 | 23 | 154.25 | 67.75 | 36.2 | 93.1 | 85.2 |
| 2 | 1/3/2005 | 6.9 | 1.0853 | 22 | 173.25 | 72.25 | 38.5 | 93.6 | 83.0 |
| 3 | 1/5/2005 | 24.6 | 1.0414 | 22 | 154.00 | 66.25 | 34.0 | 95.8 | 87.9 |
| 4 | 1/5/2005 | 10.9 | 1.0751 | 26 | 184.75 | 72.25 | 37.4 | 101.8 | 86.4 |
| 5 | 1/7/2005 | 27.8 | 1.0340 | 24 | 184.25 | 71.25 | 34.4 | 97.3 | 100.0 |
| 6 | 1/7/2005 | 20.6 | 1.0502 | 24 | 210.25 | 74.75 | 39.0 | 104.5 | 94.4 |
| 7 | 1/11/200 | 19.0 | 1.0549 | 26 | 181.00 | 69.75 | 36.4 | 105.1 | 90.7 |
| 8 | 1/13/200 | 12.8 | 1.0704 | 25 | 176.00 | 72.50 | 37.8 | 99.6 | 88.5 |
| 9 | 1/13/200 | 5.1 | 1.0900 | 25 | 191.00 | 74.00 | 38.1 | 100.9 | 82.5 |
| 10 | 1/15/200 | 12.0 | 1.0722 | 23 | 198.25 | 73.50 | 42.1 | 99.6 | 88.6 |

| Obs | Date | Price | Open | High | Low | Vol | Change |
|-----|----------|-----------|----------|----------|----------|---------|--------|
| 1 | 15-Sep-2 | \$7,215.4 | 7,295.39 | 7,295.39 | 7,196.58 | 1.46B | -1.10% |
| 2 | 14-Sep-2 | \$7,295.3 | 7,379.70 | 7,390.70 | 7,287.73 | 1.26B | -1.14% |
| 3 | 13-Sep-2 | \$7,379.7 | 7,400.69 | 7,401.30 | 7,336.23 | 870.09M | -0.28% |
| 4 | 12-Sep-2 | \$7,400.6 | 7,413.59 | 7,435.84 | 7,386.98 | 768.76M | -0.17% |
| 5 | 11-Sep-2 | \$7,413.5 | 7,377.60 | 7,434.07 | 7,377.60 | 633.81M | 0.49% |
| 6 | 08-Sep-2 | \$7,377.6 | 7,396.98 | 7,396.98 | 7,358.42 | 619.11M | -0.26% |
| 7 | 07-Sep-2 | \$7,396.9 | 7,354.13 | 7,412.68 | 7,348.38 | 663.67M | 0.58% |
| 8 | 06-Sep-2 | \$7,354.1 | 7,372.92 | 7,372.92 | 7,322.42 | 697.15M | -0.25% |
| 9 | 05-Sep-2 | \$7,372.9 | 7,411.47 | 7,437.51 | 7,369.58 | 558.08M | -0.52% |
| 10 | 04-Sep-2 | \$7,411.4 | 7,438.50 | 7,438.50 | 7,404.05 | 398.67M | -0.36% |
| 11 | 01-Sep-2 | \$7,438.5 | 7,430.62 | 7,460.52 | 7,430.06 | 552.91M | 0.11% |
| 12 | 31-Aug-2 | \$7,430.6 | 7,365.26 | 7,443.68 | 7,365.01 | 784.89M | 0.89% |
| 13 | 30-Aug-2 | \$7,365.2 | 7,337.43 | 7,381.33 | 7,337.43 | 686.61M | 0.38% |
| 14 | 29-Aug-2 | \$7,337.4 | 7,401.46 | 7,401.62 | 7,289.20 | 757.21M | -0.87% |
| 15 | 25-Aug-2 | \$7,401.4 | 7,407.06 | 7,439.53 | 7,401.46 | 513.07M | -0.08% |
| 16 | 24-Aug-2 | \$7,407.0 | 7,382.65 | 7,437.87 | 7,382.16 | 756.85M | 0.33% |
| 17 | 23-Aug-2 | \$7,382.6 | 7,381.74 | 7,394.52 | 7,360.33 | 611.96M | 0.01% |
| 18 | 22-Aug-2 | \$7,381.7 | 7,318.88 | 7,387.55 | 7,318.88 | 676.38M | 0.86% |
| 19 | 21-Aug-2 | \$7,318.8 | 7,323.98 | 7,331.95 | 7,296.80 | 552.91M | -0.07% |
| 20 | 18-Aug-2 | \$7,323.9 | 7,387.87 | 7,387.87 | 7,302.47 | 741.56M | -0.86% |
| 21 | 17-Aug-2 | \$7,387.8 | 7,433.03 | 7,433.74 | 7,382.16 | 593.94M | -0.61% |
| 22 | 16-Aug-2 | \$7,433.0 | 7,383.85 | 7,444.98 | 7,383.85 | 586.26M | 0.67% |
| 23 | 15-Aug-2 | \$7,383.8 | 7,353.89 | 7,399.35 | 7,353.89 | 510.54M | 0.41% |
| 24 | 14-Aug-2 | \$7,353.8 | 7,309.96 | 7,377.66 | 7,309.96 | 553.29M | 0.60% |
| 25 | 11-Aug-2 | \$7,309.9 | 7,389.94 | 7,389.96 | 7,296.49 | 767.62M | -1.08% |
| 26 | 10-Aug-2 | \$7,389.9 | 7,498.06 | 7,498.06 | 7,376.66 | 735.23M | -1.44% |
| 27 | 09-Aug-2 | \$7,498.0 | 7,542.73 | 7,542.73 | 7,475.83 | 803.93M | -0.59% |

Program Summary - 7hw.sas

| Oha | Data | Duine | 0000 | Llimb | Law | Val | Change |
|-----|----------|-----------|----------|----------|----------|---------|--------|
| Obs | Date | Price | Open | High | Low | Vol | Change |
| 28 | 08-Aug-2 | \$7,542.7 | 7,531.94 | 7,551.85 | 7,518.45 | 615.74M | 0.14% |
| 29 | 07-Aug-2 | \$7,531.9 | 7,511.71 | 7,533.74 | 7,511.71 | 632.19M | 0.27% |
| 30 | 04-Aug-2 | \$7,511.7 | 7,474.77 | 7,519.06 | 7,465.12 | 776.41M | 0.49% |
| 31 | 03-Aug-2 | \$7,474.7 | 7,411.43 | 7,484.53 | 7,384.22 | 819.30M | 0.85% |
| 32 | 02-Aug-2 | \$7,411.4 | 7,423.66 | 7,434.71 | 7,388.91 | 731.35M | -0.16% |
| 33 | 01-Aug-2 | \$7,423.6 | 7,372.00 | 7,440.14 | 7,372.00 | 740.61M | 0.70% |
| 34 | 31-Jul-2 | \$7,372.0 | 7,368.37 | 7,425.52 | 7,367.86 | 927.04M | 0.05% |
| 35 | 28-Jul-2 | \$7,368.3 | 7,443.01 | 7,443.01 | 7,339.44 | 822.65M | -1.00% |
| 36 | 27-Jul-2 | \$7,443.0 | 7,452.32 | 7,461.85 | 7,410.85 | 1.01B | -0.12% |
| 37 | 26-Jul-2 | \$7,452.3 | 7,434.82 | 7,487.05 | 7,434.68 | 774.93M | 0.24% |
| 38 | 25-Jul-2 | \$7,434.8 | 7,377.73 | 7,453.74 | 7,377.73 | 798.83M | 0.77% |
| 39 | 24-Jul-2 | \$7,377.7 | 7,452.91 | 7,453.22 | 7,357.50 | 1.11B | -1.01% |
| 40 | 21-Jul-2 | \$7,452.9 | 7,487.87 | 7,515.12 | 7,433.89 | 722.77M | -0.47% |
| 41 | 20-Jul-2 | \$7,487.8 | 7,430.91 | 7,502.73 | 7,430.91 | 728.09M | 0.77% |
| 42 | 19-Jul-2 | \$7,430.9 | 7,390.22 | 7,442.84 | 7,379.33 | 660.42M | 0.55% |
| 43 | 18-Jul-2 | \$7,390.2 | 7,404.13 | 7,418.53 | 7,357.77 | 634.51M | -0.19% |
| 44 | 17-Jul-2 | \$7,404.1 | 7,378.39 | 7,426.37 | 7,378.30 | 613.97M | 0.35% |
| 45 | 14-Jul-2 | \$7,378.3 | 7,413.44 | 7,419.81 | 7,363.77 | 852.44M | -0.47% |
| 46 | 13-Jul-2 | \$7,413.4 | 7,416.93 | 7,428.24 | 7,403.75 | 970.71M | -0.05% |
| 47 | 12-Jul-2 | \$7,416.9 | 7,329.76 | 7,439.08 | 7,329.76 | 821.52M | 1.19% |
| 48 | 11-Jul-2 | \$7,329.7 | 7,370.03 | 7,386.88 | 7,304.77 | 683.49M | -0.55% |
| 49 | 10-Jul-2 | \$7,370.0 | 7,350.92 | 7,388.02 | 7,344.31 | 615.60M | 0.26% |

| | | I | | | | _ | |
|-----|-----------|------------|-----|-----|--------|-------|----------|
| Obs | Last Name | First Name | Age | Job | Gender | Group | State |
| 1 | Smith | Al | 55 | Man | M | 1 | Texas |
| 2 | Jones | Ted | 38 | SR2 | M | 2 | Vermont |
| 3 | Hall | Kim | 22 | SR1 | M | 2 | Vermont |
| 4 | Jones | Kim | 19 | Sec | F | 1 | Maryland |
| 5 | Clark | Guy | 31 | SR1 | М | 2 | Grant |
| 6 | Schmidt | Henry | 62 | Mec | М | 4 | Washingt |
| 7 | Allen | Joe | 45 | Man | М | 1 | Vermont |
| 8 | Call | Steve | 43 | SR2 | М | 2 | Maryland |
| 9 | McCall | Mac | 26 | Sec | F | 1 | Texas |
| 10 | Sue | Joe | 25 | Mec | F | 4 | Murphy |
| 11 | Love | Sue | 27 | SR2 | F | 2 | Washingt |