

```

1      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
70
71      /* STAT 382 WORKSHEET 6 */
72
73
74      /* IMPORT DATASET */
75      TITLE 'IMPORT DATASET';
76
77      %web_drop_table(WORK.IMPORT);
78
79
80      FILENAME REFFILE '/home/u61397358/sasuser.v94/stocks_nyse2.csv';
81
82      PROC IMPORT DATAFILE=REFFILE
83      DBMS=CSV
84      OUT=NYSE2;
85      GETNAMES=YES;
86      RUN;

```

NOTE: Import cancelled. Output dataset WORK.NYSE2 already exists. Specify REPLACE option to overwrite it.

NOTE: The SAS System stopped processing this step because of errors.

NOTE: PROCEDURE IMPORT used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	193.25k
OS Memory	34984.00k
Timestamp	05/02/2022 04:52:27 AM
Step Count	76 Switch Count 0
Page Faults	0
Page Reclaims	14
Page Swaps	0
Voluntary Context Switches	0
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	0

87

```

88      PROC CONTENTS DATA=NYSE2; RUN;

```

NOTE: PROCEDURE CONTENTS used (Total process time):

real time	0.06 seconds
user cpu time	0.06 seconds
system cpu time	0.01 seconds
memory	3005.09k
OS Memory	35760.00k
Timestamp	05/02/2022 04:52:27 AM
Step Count	77 Switch Count 0
Page Faults	0
Page Reclaims	162
Page Swaps	0
Voluntary Context Switches	2
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	24

89

90

```

91      %web_open_table(WORK.IMPORT);
92
93

```

```

94      /* Task 1: Create a frequency table for the variable Sector */
95      TITLE 'TASK 1: Frequency Table for Sector';
96
97      PROC FREQ DATA=NYSE2;
98      TABLES Sector /
99      PLOTS=(freqplot);
100
101
102

```

```

103      /* Task 2: Create a bar chart for the Sector showing how many companies
104      are in each sector with labels. */
105      TITLE 'TASK 2: Bar Chart for Sector';
106

```

NOTE: There were 359 observations read from the data set WORK.NYSE2.

NOTE: PROCEDURE FREQ used (Total process time):

```

real time          0.19 seconds
user cpu time      0.10 seconds
system cpu time    0.01 seconds
memory             14156.84k
OS Memory          46768.00k
Timestamp          05/02/2022 04:52:27 AM
Step Count         78  Switch Count  3
Page Faults        0
Page Reclaims      3326
Page Swaps         0
Voluntary Context Switches 263
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 1112

```

```

107      PROC SGPLOTDATA=NYSE2;
108      VBAR Sector;
109      RUN;

```

NOTE: PROCEDURE SGPLOT used (Total process time):

```

real time          0.11 seconds
user cpu time      0.05 seconds
system cpu time    0.01 seconds
memory             1625.96k
OS Memory          48180.00k
Timestamp          05/02/2022 04:52:27 AM
Step Count         79  Switch Count  2
Page Faults        0
Page Reclaims      564
Page Swaps         0
Voluntary Context Switches 223
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 448

```

NOTE: There were 359 observations read from the data set WORK.NYSE2.

```

110
111
112      /* Task 3: Compute the mean and median DividendYield by sector
113      using one procedure statement. */
114      TITLE 'TASK 3: Mean and Median DividendYield by Sector';
115
116      PROC SGPLOTDATA=NYSE2;
117      VBAR Sector /
118      stat=mean /

```

```

      _
      22
      200

```

ERROR 22-322: Syntax error, expecting one of the following: ;, ALPHA, ATTRID, BARWIDTH, BASELINE, BASELINEATTRS, CATEGORYORDER, CLUSTERWIDTH, COLORMODEL, COLORRESPONSE, COLORSTAT, DATALABEL, DATALABELATTRS, DATALABELFITPOLICY, DATALABELPOS, DATASKIN, DISCRETEOFFSET, DISPLAYBASELINE, FILL, FILLATTRS, FILLENDCOLOR, FILLPATTERN, FILLPATTERNATTRS, FILLTYPE, FREQ, GROUP, GROUPDISPLAY, GROUPORDER, LEGENDLABEL, LIMITATTRS, LIMITCAPSCALE, LIMITS, LIMITSTAT, MISSING, NAME, NOFILL, NOOUTLINE, NOSTATLABEL, NOZEROBARS, NUMSTD, OUTLINE, OUTLINEATTRS, RATTRID, RESPONSE, SEGLABEL, SEGLABELATTRS, SEGLABELFITPOLICY, SEGLABELFORMAT, SPLITCHAR, SPLITCHARNODROP, STAT, STATLABEL, TIP, TIPFORMAT, TIPLABEL, TRANSPARENCY, URL, WEIGHT, X2AXIS, Y2AXIS.

ERROR 200-322: The symbol is not recognized and will be ignored.

```

119      stat=median;
120      RUN;

```

NOTE: The SAS System stopped processing this step because of errors.

NOTE: PROCEDURE SGPLOT used (Total process time):

```

real time          0.00 seconds
user cpu time      0.00 seconds
system cpu time    0.00 seconds
memory             500.25k
OS Memory          47276.00k
Timestamp          05/02/2022 04:52:27 AM
Step Count         80  Switch Count  0
Page Faults        0
Page Reclaims      51
Page Swaps         0
Voluntary Context Switches 0
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 8

```

```

121
122
123
124      /* Task 4: Create a histogram for Price with labels. */

```

```

125     TITLE 'TASK 4: Histogram for Price';
126

```

```

127     PROC SGPLOT DATA=NYSE2;
128     HISTOGRAM Price;
129     RUN;

```

NOTE: PROCEDURE SGPLOT used (Total process time):

```

real time      0.11 seconds
user cpu time   0.04 seconds
system cpu time 0.01 seconds
memory         2395.34k
OS Memory      48180.00k
Timestamp      05/02/2022 04:52:27 AM
Step Count      81  Switch Count  1
Page Faults     0
Page Reclaims   342
Page Swaps      0
Voluntary Context Switches 187
Involuntary Context Switches 3
Block Input Operations 0
Block Output Operations 456

```

NOTE: There were 359 observations read from the data set WORK.NYSE2.

```

130
131
132
133     /* Task 5: Create a boxplot for Price with labels. */
134     TITLE 'TASK 5: Boxplot for Price';
135
136     PROC SGPLOT DATA=NYSE2;
137     HBOX Price;
138     RUN;

```

NOTE: PROCEDURE SGPLOT used (Total process time):

```

real time      0.11 seconds
user cpu time   0.05 seconds
system cpu time 0.00 seconds
memory         2418.31k
OS Memory      48180.00k
Timestamp      05/02/2022 04:52:28 AM
Step Count      82  Switch Count  1
Page Faults     0
Page Reclaims   304
Page Swaps      0
Voluntary Context Switches 284
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 472

```

NOTE: There were 359 observations read from the data set WORK.NYSE2.

```

139
140
141     /* Task 6: Compute a 92% Confidence Interval for EarningsperShare */
142     TITLE 'TASK 6: 92% CI for Earnings Per Share';
143
144     PROC UNIVARIATE DATA = NYSE2
145     CIBASIC (ALPHA = 0.08 TYPE = TWOSIDED);
146     VAR EarningsperShare;
147     RUN;

```

NOTE: PROCEDURE UNIVARIATE used (Total process time):

```

real time      0.06 seconds
user cpu time   0.07 seconds
system cpu time 0.00 seconds
memory         1069.50k
OS Memory      47276.00k
Timestamp      05/02/2022 04:52:28 AM
Step Count      83  Switch Count  0
Page Faults     0
Page Reclaims   75
Page Swaps      0
Voluntary Context Switches 0
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 24

```

```

148     /* The 92% CI is: (3.31449,4.35894) */

```

```
149
150
151
152      /* Task 7: Test the claim that the mean DividendYield is
153      greater than 2 at a 3.5% significance level. */
154      TITLE 'TASK 7: DividendYield HT';
155
156      /* Hypotheses:
157      H0: mu = 2
158      H1: mu > 2
159      */
160
161
162      * Code;
163      proc ttest data=NYSE2 h0=2 sides=u plots;
164      var DividendYield;
165      run;
```

## NOTE: PROCEDURE TTEST used (Total process time):

real time	0.45 seconds
user cpu time	0.18 seconds
system cpu time	0.04 seconds
memory	11134.31k
OS Memory	55764.00k
Timestamp	05/02/2022 04:52:28 AM
Step Count	84
Switch Count	24
Page Faults	0
Page Reclaims	13891
Page Swaps	0
Voluntary Context Switches	767
Involuntary Context Switches	1
Block Input Operations	0
Block Output Operations	1408

```
166
167
168      /*
169      P-value = 0.0125
170      Decision: Reject H0
171      Conclusion: There is enough evidence to suggest that the mean Dividend Yield is greater than 2.
172      */
173
174      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
185
```