```
1          OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
NOTE: ODS statements in the SAS Studio environment may disable some output features.
69
70         /* Start Station Name of Casual Customer */
71         title bold "3g-Casual Customer StartStationName";
72         proc sort data=work.file;
73         by member_casual;
74         run;

NOTE: Input data set is already sorted, no sorting done.
NOTE: PROCEDURE SORT used (Total process time):
      real time            0.00 seconds
      user cpu time        0.00 seconds
      system cpu time      0.00 seconds
      memory               1884.96k
      OS Memory            30116.00k
      Timestamp            05/06/2022 09:05:59 AM
      Step Count                       68  Switch Count  0
      Page Faults                      0
      Page Reclaims                    247
      Page Swaps                       0
      Voluntary Context Switches       0
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0


75
76         proc freq data=work.file order=freq;
77         tables start_station_name / out=Members plots=freqplot(twoway=stacked
78         orient=horizontal);
79         by member_casual;
80         where (member_casual='casual');
81         run;

NOTE: There were 14873 observations read from the data set WORK.FILE.
      WHERE member_casual='casual';
NOTE: The data set WORK.MEMBERS has 78 observations and 4 variables.
NOTE: PROCEDURE FREQ used (Total process time):
      real time            0.19 seconds
      user cpu time        0.12 seconds
      system cpu time      0.02 seconds
      memory               11300.90k
      OS Memory            37428.00k
      Timestamp            05/06/2022 09:05:59 AM
      Step Count                       69  Switch Count  6
      Page Faults                      0
      Page Reclaims                    2388
      Page Swaps                       0
      Voluntary Context Switches       409
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          1152


82
83         /* 3h - end time for members */
84         Data File3hwork;
85         set File;
86
87         if Starttime <'12:00't then
88         Starttimes='Morning';
89         else if Starttime <'18:00't then
90         Starttimes='Afternoon';
91         else
92         Starttimes='Evening';
93
94         if Endtime <'12:00't then
95         EndTimes='Morning';
```

```
96          else if Endtime <'18:00't then
97          EndTimes='Afternoon';
98          else
99          EndTimes='Evening';
100         run;
```

NOTE: There were 47662 observations read from the data set WORK.FILE.
NOTE: The data set WORK.FILE3HWORK has 47662 observations and 18 variables.
NOTE: DATA statement used (Total process time):
      real time   0.01 seconds
      user cpu time   0.01 seconds
      system cpu time   0.01 seconds
      memory   3584.09k
      OS Memory   39080.00k
      Timestamp   05/06/2022 09:05:59 AM
      Step Count   70 Switch Count 3
      Page Faults   0
      Page Reclaims   569
      Page Swaps   0
      Voluntary Context Switches   21
      Involuntary Context Switches 0
      Block Input Operations   0
      Block Output Operations   21000


```
101
102         title bold "3h- End time for members ";
103
104         proc freq data=work.File3hwork order=freq;
105         tables EndTimes / out=MemberETimes;
106         by member_casual;
107         where (member_casual='member');
108         run;
```

NOTE: There were 32789 observations read from the data set WORK.FILE3HWORK.
      WHERE member_casual='member';
NOTE: The data set WORK.MEMBERETIMES has 3 observations and 4 variables.
NOTE: PROCEDURE FREQ used (Total process time):
      real time   0.02 seconds
      user cpu time   0.02 seconds
      system cpu time   0.01 seconds
      memory   2558.46k
      OS Memory   37804.00k
      Timestamp   05/06/2022 09:05:59 AM
      Step Count   71 Switch Count 7
      Page Faults   0
      Page Reclaims   436
      Page Swaps   0
      Voluntary Context Switches   40
      Involuntary Context Switches 0
      Block Input Operations   0
      Block Output Operations   536


```
109
110         proc template;
111         define statgraph SASStudio.Pie;
112         begingraph;
113         entrytitle "Members End Time" / textattrs=(size=14);
114         layout region;
115         piechart category=EndTimes / group=PERCENT groupgap=2% stat=pct start=90
116         categorydirection=clockwise datalabellocation=inside;
117         endlayout;
118         endgraph;
119         end;
```
NOTE: STATGRAPH 'SASStudio.Pie' has been saved to: WORK.TEMPLAT
```
120         run;
```
NOTE: PROCEDURE TEMPLATE used (Total process time):
      real time   0.00 seconds
      user cpu time   0.00 seconds
      system cpu time   0.00 seconds

```
        memory                    396.15k
        OS Memory                 36256.00k
        Timestamp                 05/06/2022 09:05:59 AM
        Step Count                              72  Switch Count   2
        Page Faults                             0
        Page Reclaims                           28
        Page Swaps                              0
        Voluntary Context Switches              10
        Involuntary Context Switches            0
        Block Input Operations                  0
        Block Output Operations                 128


121
122         ods graphics / reset width=6.4in height=4.8in imagemap;
123
124         proc sgrender template=SASStudio.Pie data=WORK.MEMBERETIMES;
125         run;

NOTE: There were 3 observations read from the data set WORK.MEMBERETIMES.
NOTE: PROCEDURE SGRENDER used (Total process time):
        real time               0.19 seconds
        user cpu time           0.04 seconds
        system cpu time         0.01 seconds
        memory                  2382.65k
        OS Memory               37348.00k
        Timestamp               05/06/2022 09:06:00 AM
        Step Count                              73  Switch Count   0
        Page Faults                             0
        Page Reclaims                           372
        Page Swaps                              0
        Voluntary Context Switches              149
        Involuntary Context Switches            0
        Block Input Operations                  0
        Block Output Operations                 464


126
127         ods graphics / reset;
128
129
130         /* Additional analysis */
131         ods graphics / reset width=6.4in height=8in imagemap;
132         title bold "3i-Additional Analysis";
133         proc sgplot data=WORK.FILETIMINGS;
134         title2 height=11pt "End Station ID";
135         hbar start_station_name / group=member_casual groupdisplay=cluster datalabel
136         fillType=gradient stat=percent;
137         xaxis min=0.1 max=0.1 grid;
138         keylegend / location=inside;
139         run;

NOTE: PROCEDURE SGPLOT used (Total process time):
        real time               0.32 seconds
        user cpu time           0.11 seconds
        system cpu time         0.03 seconds
        memory                  5535.93k
        OS Memory               41380.00k
        Timestamp               05/06/2022 09:06:00 AM
        Step Count                              74  Switch Count   5
        Page Faults                             0
        Page Reclaims                           1565
        Page Swaps                              0
        Voluntary Context Switches              1108
        Involuntary Context Switches            0
        Block Input Operations                  0
        Block Output Operations                 816


NOTE: VIEWMAX value (0.1) must be greater than VIEWMIN value (0.1). The defaults for both options will be used.
WARNING: The data labels are suppressed. Use DATALABELFITPOLICY=NONE to force the labels to be displayed.
NOTE: Some of the tick values have been thinned.
```

NOTE: There were 47662 observations read from the data set WORK.FILETIMINGS.

140
141   ods graphics / reset;
142   title;
143
144
145
146
147
148   OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
158

NOTE: There were 47662 observations read from the data set WORK.FILETIMINGS.

140
141   ods graphics / reset;
142   title;