```
1           OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
4           OPTIONS LOCALE=en_CN DFLANG=LOCALE;
                         _____
                           14
ERROR 14-12: Invalid option value EN_CN for SAS option LOCALE.


68
69          proc import datafile="/home/u63739330/STA365/zone_entries_BMC_5.csv"
70                      out=entry dbms=csv replace;
71                      getnames=yes;
72
73


NOTE: Unable to open parameter catalog: SASUSER.PARMS.PARMS.SLIST in update mode. Temporary parameter values will be saved to
WORK.PARMS.PARMS.SLIST.
74          proc freq;
75          /****************************************************************
76          *    PRODUCT:   SAS
77          *    VERSION:   9.4
78          *    CREATOR:   External File Interface
79          *    DATE:      03APR24
80          *    DESC:      Generated SAS Datastep Code
81          *    TEMPLATE SOURCE:  (None Specified.)
82          ****************************************************************/
83             data WORK.ENTRY    ;
84             %let _EFIERR_ = 0; /* set the ERROR detection macro variable */
85             infile '/home/u63739330/STA365/zone_entries_BMC_5.csv' delimiter = ',' MISSOVER DSD lrecl=32767 firstobs=2 ;
86                informat Date yymmdd10. ;
87                informat Home_Team $21. ;
88                informat Away_Team $14. ;
89                informat Period best32. ;
90                informat Clock time20.3 ;
91                informat Home_Team_Skaters best32. ;
92                informat Away_Team_Skaters best32. ;
93                informat Home_Team_Goals best32. ;
94                informat Away_Team_Goals best32. ;
95                informat Team $21. ;
96                informat Player $18. ;
97                informat Event $10. ;
98                informat X_Coordinate best32. ;
99                informat Y_Coordinate best32. ;
100               informat Detail_1 $7. ;
101               informat "Detail 2"N $1. ;
102               informat "Detail 3"N $1. ;
103               informat "Detail 4"N $1. ;
104               informat Player_2 $17. ;
105               informat "X Coordinate 2"N $1. ;
106               informat "Y Coordinate 2"N $1. ;
107               informat isin_ozone_for_home_team $5. ;
108               informat isin_ozone_for_away_team $5. ;
109               informat zone_entry_success $5. ;
110               informat Position $1. ;
111               informat is_forward $5. ;
112               informat Entry_Type $7. ;
113               informat Game yymmdd10. ;
114               informat Dumped $5. ;
115               informat Played $5. ;
116               informat Carried $5. ;
117               informat timeline best32. ;
118               informat us_powerplay best32. ;
119               informat canada_powerplay best32. ;
120               informat Y_coordinate_centered best32. ;
121               informat "Blayre Turnbull"N best32. ;
122               informat "Emma Maltais"N best32. ;
123               informat "Savannah Harmon"N best32. ;
124               informat "Abbey Murphy"N best32. ;
125               informat "Jamie Lee Rattray"N best32. ;
126               informat "Ashton Bell"N best32. ;
127               informat "Cayla Barnes"N best32. ;
128               informat "Hilary Knight"N best32. ;
129               informat "Jessie Eldridge"N best32. ;
130               informat "Julia Gosling"N best32. ;
131               informat "Taylor Heise"N best32. ;
132               informat "Jamie Bourbonnais"N best32. ;
133               informat "Rory Guilday"N best32. ;
134               informat "Sarah Nurse"N best32. ;
135               informat "Brianne Jenner"N best32. ;
136               informat "Jessica DiGirolamo"N best32. ;
137               informat "Sarah Fillier"N best32. ;
138               informat "Ella Shelton"N best32. ;
139               informat "Rebecca Gilmore"N best32. ;
140               informat "Grace Zumwinkle"N best32. ;
141               informat "Hayley Scamurra"N best32. ;
142               informat "Renata Fast"N best32. ;
143               informat "Megan Keller"N best32. ;
```

```
144          informat "Jocelyne Larocque"N best32. ;
145          informat "Marie-Philip Poulin"N best32. ;
146          informat "Kelly Pannek"N best32. ;
147          informat "Britta Curl"N best32. ;
148          informat "Lacey Eden"N best32. ;
149          informat "Alex Carpenter"N best32. ;
150          informat "Abby Roque"N best32. ;
151          informat "Tessa Janecke"N best32. ;
152          informat "Hannah Bilka"N best32. ;
153          informat "Laura Stacey"N best32. ;
154          informat "Kristin O'Neill"N best32. ;
155          informat "Haley Winn"N best32. ;
156          informat "Gabbie Hughes"N best32. ;
157          informat "Emily Clark"N best32. ;
158          informat "Erin Ambrose"N best32. ;
159          informat "Natalie Buchbinder"N best32. ;
160          informat "Sophie Jaques"N best32. ;
161          informat "Laila Edwards"N best32. ;
162          informat "Kirsten Simms"N best32. ;
163          informat "Caroline Harvey"N best32. ;
164          informat "Anna Wilgren"N best32. ;
165          informat "Nicole Gosling"N best32. ;
166          informat "Loren Gabel"N best32. ;
167          informat "Danielle Serdachny"N best32. ;
168          informat "Jennifer Gardiner"N best32. ;
169          informat "Anne Cherkowski"N best32. ;
170          informat "Allyson Simpson"N best32. ;
171          informat "Casey O'Brien"N best32. ;
172          informat Factor_1 best32. ;
173          informat Factor_2 best32. ;
174          informat Factor_3 best32. ;
175          informat Factor_4 best32. ;
176          informat Factor_5 best32. ;
177          format Date yymmdd10. ;
178          format Home_Team $21. ;
179          format Away_Team $14. ;
180          format Period best12. ;
181          format Clock time20.3 ;
182          format Home_Team_Skaters best12. ;
183          format Away_Team_Skaters best12. ;
184          format Home_Team_Goals best12. ;
185          format Away_Team_Goals best12. ;
186          format Team $21. ;
187          format Player $18. ;
188          format Event $10. ;
189          format X_Coordinate best12. ;
190          format Y_Coordinate best12. ;
191          format Detail_1 $7. ;
192          format "Detail 2"N $1. ;
193          format "Detail 3"N $1. ;
194          format "Detail 4"N $1. ;
195          format Player_2 $17. ;
196          format "X Coordinate 2"N $1. ;
197          format "Y Coordinate 2"N $1. ;
198          format isin_ozone_for_home_team $5. ;
199          format isin_ozone_for_away_team $5. ;
200          format zone_entry_success $5. ;
201          format Position $1. ;
202          format is_forward $5. ;
203          format Entry_Type $7. ;
204          format Game yymmdd10. ;
205          format Dumped $5. ;
206          format Played $5. ;
207          format Carried $5. ;
208          format timeline best12. ;
209          format us_powerplay best12. ;
210          format canada_powerplay best12. ;
211          format Y_coordinate_centered best12. ;
212          format "Blayre Turnbull"N best12. ;
213          format "Emma Maltais"N best12. ;
214          format "Savannah Harmon"N best12. ;
215          format "Abbey Murphy"N best12. ;
216          format "Jamie Lee Rattray"N best12. ;
217          format "Ashton Bell"N best12. ;
218          format "Cayla Barnes"N best12. ;
219          format "Hilary Knight"N best12. ;
220          format "Jessie Eldridge"N best12. ;
221          format "Julia Gosling"N best12. ;
222          format "Taylor Heise"N best12. ;
223          format "Jamie Bourbonnais"N best12. ;
224          format "Rory Guilday"N best12. ;
225          format "Sarah Nurse"N best12. ;
226          format "Brianne Jenner"N best12. ;
227          format "Jessica DiGirolamo"N best12. ;
228          format "Sarah Fillier"N best12. ;
229          format "Ella Shelton"N best12. ;
230          format "Rebecca Gilmore"N best12. ;
```

```
231            format "Grace Zumwinkle"N best12. ;
232            format "Hayley Scamurra"N best12. ;
233            format "Renata Fast"N best12. ;
234            format "Megan Keller"N best12. ;
235            format "Jocelyne Larocque"N best12. ;
236            format "Marie-Philip Poulin"N best12. ;
237            format "Kelly Pannek"N best12. ;
238            format "Britta Curl"N best12. ;
239            format "Lacey Eden"N best12. ;
240            format "Alex Carpenter"N best12. ;
241            format "Abby Roque"N best12. ;
242            format "Tessa Janecke"N best12. ;
243            format "Hannah Bilka"N best12. ;
244            format "Laura Stacey"N best12. ;
245            format "Kristin O'Neill"N best12. ;
246            format "Haley Winn"N best12. ;
247            format "Gabbie Hughes"N best12. ;
248            format "Emily Clark"N best12. ;
249            format "Erin Ambrose"N best12. ;
250            format "Natalie Buchbinder"N best12. ;
251            format "Sophie Jaques"N best12. ;
252            format "Laila Edwards"N best12. ;
253            format "Kirsten Simms"N best12. ;
254            format "Caroline Harvey"N best12. ;
255            format "Anna Wilgren"N best12. ;
256            format "Nicole Gosling"N best12. ;
257            format "Loren Gabel"N best12. ;
258            format "Danielle Serdachny"N best12. ;
259            format "Jennifer Gardiner"N best12. ;
260            format "Anne Cherkowski"N best12. ;
261            format "Allyson Simpson"N best12. ;
262            format "Casey O'Brien"N best12. ;
263            format Factor_1 best12. ;
264            format Factor_2 best12. ;
265            format Factor_3 best12. ;
266            format Factor_4 best12. ;
267            format Factor_5 best12. ;
268       input
269                Date
270                Home_Team  $
271                Away_Team  $
272                Period
273                Clock
274                Home_Team_Skaters
275                Away_Team_Skaters
276                Home_Team_Goals
277                Away_Team_Goals
278                Team  $
279                Player  $
280                Event  $
281                X_Coordinate
282                Y_Coordinate
283                Detail_1  $
284                "Detail 2"N  $
285                "Detail 3"N  $
286                "Detail 4"N  $
287                Player_2  $
288                "X Coordinate 2"N  $
289                "Y Coordinate 2"N  $
290                isin_ozone_for_home_team  $
291                isin_ozone_for_away_team  $
292                zone_entry_success  $
293                Position  $
294                is_forward  $
295                Entry_Type  $
296                Game
297                Dumped  $
298                Played  $
299                Carried  $
300                timeline
301                us_powerplay
302                canada_powerplay
303                Y_coordinate_centered
304                "Blayre Turnbull"N
305                "Emma Maltais"N
306                "Savannah Harmon"N
307                "Abbey Murphy"N
308                "Jamie Lee Rattray"N
309                "Ashton Bell"N
310                "Cayla Barnes"N
311                "Hilary Knight"N
312                "Jessie Eldridge"N
313                "Julia Gosling"N
314                "Taylor Heise"N
315                "Jamie Bourbonnais"N
316                "Rory Guilday"N
317                "Sarah Nurse"N
```

```
318                          "Brianne Jenner"N
319                          "Jessica DiGirolamo"N
320                          "Sarah Fillier"N
321                          "Ella Shelton"N
322                          "Rebecca Gilmore"N
323                          "Grace Zumwinkle"N
324                          "Hayley Scamurra"N
325                          "Renata Fast"N
326                          "Megan Keller"N
327                          "Jocelyne Larocque"N
328                          "Marie-Philip Poulin"N
329                          "Kelly Pannek"N
330                          "Britta Curl"N
331                          "Lacey Eden"N
332                          "Alex Carpenter"N
333                          "Abby Roque"N
334                          "Tessa Janecke"N
335                          "Hannah Bilka"N
336                          "Laura Stacey"N
337                          "Kristin O'Neill"N
338                          "Haley Winn"N
339                          "Gabbie Hughes"N
340                          "Emily Clark"N
341                          "Erin Ambrose"N
342                          "Natalie Buchbinder"N
343                          "Sophie Jaques"N
344                          "Laila Edwards"N
345                          "Kirsten Simms"N
346                          "Caroline Harvey"N
347                          "Anna Wilgren"N
348                          "Nicole Gosling"N
349                          "Loren Gabel"N
350                          "Danielle Serdachny"N
351                          "Jennifer Gardiner"N
352                          "Anne Cherkowski"N
353                          "Allyson Simpson"N
354                          "Casey O'Brien"N
355                          Factor_1
356                          Factor_2
357                          Factor_3
358                          Factor_4
359                          Factor_5
360               ;
361           if _ERROR_ then call symputx('_EFIERR_',1);  /* set ERROR detection macro variable */
362           run;

NOTE: The infile '/home/u63739330/STA365/zone_entries_BMC_5.csv' is:
      Filename=/home/u63739330/STA365/zone_entries_BMC_5.csv,
      Owner Name=u63739330,Group Name=oda,
      Access Permission=-rw-r--r--,
      Last Modified=01Apr2024:18:02:57,
      File Size (bytes)=198742

NOTE: 527 records were read from the infile '/home/u63739330/STA365/zone_entries_BMC_5.csv'.
      The minimum record length was 363.
      The maximum record length was 386.
NOTE: The data set WORK.ENTRY has 527 observations and 91 variables.
NOTE: DATA statement used (Total process time):
      real time           0.01 seconds
      user cpu time       0.01 seconds
      system cpu time     0.00 seconds
      memory              11897.59k
      OS Memory           31524.00k
      Timestamp           04/03/2024 03:29:37 PM
      Step Count                      24  Switch Count  2
      Page Faults                     0
      Page Reclaims                   415
      Page Swaps                      0
      Voluntary Context Switches      11
      Involuntary Context Switches    0
      Block Input Operations          0
      Block Output Operations         1064


   527 rows created in WORK.ENTRY from /home/u63739330/STA365/zone_entries_BMC_5.csv.



NOTE: WORK.ENTRY data set was successfully created.
NOTE: The data set WORK.ENTRY has 527 observations and 91 variables.
NOTE: PROCEDURE IMPORT used (Total process time):
      real time           0.16 seconds
      user cpu time       0.15 seconds
      system cpu time     0.01 seconds
      memory              11897.59k
      OS Memory           32040.00k
      Timestamp           04/03/2024 03:29:37 PM
```

```
          Step Count                    24  Switch Count  8
          Page Faults                   0
          Page Reclaims                 7245
          Page Swaps                    0
          Voluntary Context Switches    91
          Involuntary Context Switches  0
          Block Input Operations        0
          Block Output Operations       1168


363        tables Y_Coordinate*zone_entry_success/nocol nopercent chisq;
364        tables Entry_Type*zone_entry_success/nocol nopercent chisq plots=freqplot(groupby=row twoway=cluster);
365        tables Period*zone_entry_success/nocol nopercent chisq plots=freqplot(groupby=row twoway=cluster);
366        tables Team*zone_entry_success/nocol nopercent chisq plots=freqplot(groupby=row twoway=cluster);
367        tables us_powerplay*zone_entry_success/nocol nopercent chisq plots=freqplot(groupby=row twoway=cluster);
368        tables canada_powerplay*zone_entry_success/nocol nopercent chisq plots=freqplot(groupby=row twoway=cluster);
369        tables Player*zone_entry_success/nocol nopercent chisq plots=freqplot(groupby=row twoway=cluster);
370        /*In person only include chisq that signifant*/

NOTE: There were 527 observations read from the data set WORK.ENTRY.
NOTE: PROCEDURE FREQ used (Total process time):
          real time              2.83 seconds
          user cpu time          0.54 seconds
          system cpu time        0.03 seconds
          memory                 11475.75k
          OS Memory              34620.00k
          Timestamp              04/03/2024 03:29:39 PM
          Step Count                    25  Switch Count  4
          Page Faults                   0
          Page Reclaims                 4769
          Page Swaps                    0
          Voluntary Context Switches    1634
          Involuntary Context Switches  3
          Block Input Operations        0
          Block Output Operations       2160


371        proc freq order=freq;
372        tables Player*zone_entry_success/nocol nopercent chisq plots=freqplot(groupby=row twoway=stack);
373
374        OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
384
```