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1      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
68
69      ***PROJECT 4***;
70      libname Week4 '/home/u63559709/sasuser.v94/Week 4';
NOTE: Libref WEEK4 refers to the same physical library as _TEMP1.
NOTE: Libref WEEK4 was successfully assigned as follows:
Engine:      V9
Physical Name: /home/u63559709/sasuser.v94/Week 4
71
72      /*PROBLEM 1*/;
73      *Order cities by high temperature converted to Celsius*;
74      PROC SQL OUTOBS=20;
75      TITLE "World Temps";
76      SELECT City, (AvgHigh - 32) * 5/9 AS HighTempC format=4.1
77      FROM Week4.worldtemps
78      ORDER BY HighTempC DESC;
NOTE: Data file WEEK4.WORLDTemps.DATA is in a format that is native to another host, or the file encoding does not match the
session encoding. Cross Environment Data Access will be used, which might require additional CPU resources and might reduce
performance.
WARNING: Statement terminated early due to OUTOBS=20 option.
79      QUIT;
NOTE: PROCEDURE SQL used (Total process time):
real time      0.02 seconds
user cpu time   0.02 seconds
system cpu time 0.01 seconds
memory         6541.82k
OS Memory      26796.00k
Timestamp      09/20/2023 01:49:53 AM
Step Count     24  Switch Count  1
Page Faults    0
Page Reclaims 1064
Page Swaps     0
Voluntary Context Switches 31
Involuntary Context Switches 0
Block Input Operations 160
Block Output Operations 0

80
81      /*PROBLEM 2*/;
82      *Create table with new labeling columns*;
83      PROC SQL;
84      TITLE "Postal Codes";
85      SELECT "In United States", "Postal code for", "of", Name, "is", Code
86      FROM Week4.postalcodes
87      WHERE Name = 'Illinois' OR Name = 'Ohio' OR Name = 'North Carolina';
NOTE: Data file WEEK4.POSTALCODES.DATA is in a format that is native to another host, or the file encoding does not match the
session encoding. Cross Environment Data Access will be used, which might require additional CPU resources and might reduce
performance.
88      QUIT;
NOTE: PROCEDURE SQL used (Total process time):
real time      0.01 seconds
user cpu time   0.01 seconds
system cpu time 0.00 seconds
memory         5746.37k
OS Memory      28580.00k
Timestamp      09/20/2023 01:49:53 AM
Step Count     25  Switch Count  1
Page Faults    0
Page Reclaims 108
Page Swaps     0
Voluntary Context Switches 14
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 8

89
90      /*PROBLEM 3*/;
91      *Cities with selected temperature ranges*;
92      PROC SQL;
93      TITLE "Selected Cities Temperatures";
94      SELECT City, (AvgHigh - 32) * 5/9 AS AvgH, (AvgLow - 32) * 5/9 AS AvgL, ((AvgHigh - 32) * 5/9) - ((AvgLow - 32) * 5/9)
94      ! AS RangeC
95      FROM Week4.worldtemps
96      WHERE 40 GE ((AvgHigh - 32) * 5/9) - ((AvgLow - 32) * 5/9) GE 38;
NOTE: Data file WEEK4.WORLDTemps.DATA is in a format that is native to another host, or the file encoding does not match the
session encoding. Cross Environment Data Access will be used, which might require additional CPU resources and might reduce
performance.
96      !
97      QUIT;

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NOTE: PROCEDURE SQL used (Total process time):

real time	0.01 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	5790.06k
OS Memory	28580.00k
Timestamp	09/20/2023 01:49:53 AM
Step Count	26 Switch Count 1
Page Faults	0
Page Reclaims	70
Page Swaps	0
Voluntary Context Switches	11
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	0

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98
99      /*Problem 4*/
100     *Setting Climate Zones and applying them to cities*;
101     PROC SQL;
102     TITLE "Climate Zones";
103     SELECT City, Country, Latitude,
104            case
105                when Latitude gt 67 then 'North Frigid'
106                when 67 ge Latitude ge 23 then 'North Temperate'
107                when 23 gt Latitude gt -23 then 'Torrid'
108                when -23 ge Latitude ge -67 then 'South Temperate'
109                else 'South Frigid'
110            end as ClimateZone
111     FROM Week4.worldcitycoords
112     WHERE City = 'Santiago' OR City = 'Beijing' OR City = 'Havana'
113            OR City = 'Oslo' OR City = 'Montevideo' OR City = 'Ottawa';

```

NOTE: Data file WEEK4.WORLDCITYCOORDS.DATA is in a format that is native to another host, or the file encoding does not match the session encoding. Cross Environment Data Access will be used, which might require additional CPU resources and might reduce performance.

114 QUIT;

NOTE: PROCEDURE SQL used (Total process time):

real time	0.01 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	5762.40k
OS Memory	28580.00k
Timestamp	09/20/2023 01:49:53 AM
Step Count	27 Switch Count 1
Page Faults	0
Page Reclaims	53
Page Swaps	0
Voluntary Context Switches	17
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	0

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115
116     OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
126

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