

```
psam_h17_subset1.sas x psam_h17_subset1_cluster.sas x Program 1 x Characterize Data x
CODE LOG RESULTS OUTPUT DATA
Line#
1
2 /*20 Cluster run of FASTCLUS*/
3
4 libname census "/folders/myfolders/census";
5
6 proc fastclus data=census.psam_h17_subset1
7 radius=0 replace=full
8 converge=0 maxiter=200
9 maxclusters=15
10 OUTSTAT=census.psam_h17_subset1_20clusters_stat
11 OUTSEED=census.psam_h18_subset1_20clusters_seed
12 OUT=census.psam_h17_subset1_20clusters
13 distance ;
14 id SERIALNO;
15 var VALP HINCP;
16 run;
17
18 proc sgplot;
19 scatter y=HINCP x=VALP / group=cluster;
20 title 'ACS PUMS 2013 1 YR 20-Cluster Analysis';
21 title2 'of Data Containing Property Value and Household Income';
22 run;
23
```

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Line#
18 proc sgplot;
19 scatter y=HINCP x=VALP / group=cluster;
20 title 'ACS PUMS 2013 1 YR 20-Cluster Analysis';
21 title2 'of Data Containing Property Value and Household Income';
22 run;
23
24 /*Join additional variables from psam_h17 table for profiling*/
25
26 proc sql;
27 title '20 Cluster aggregated information for profiling';
28 create table census.psam_h17_subset1_20clusters_agg as
29
30 select a.SERIALNO, a.CLUSTER, a.DISTANCE, a.HINCP, a.VALP, a.TAXP,
31 b.MV, b.SMX, b.WORKSTAT, b.WIF
32 from census.psam_h17_subset1_20clusters as a left join census.psam_h17 as b
33 on a.SERIALNO=b.SERIALNO;
34 run;
35
36 /*Create #20 cluster table for analysis*/
37
38 %macro sqlloop;
39 proc sql;
40 %DO k=1 %TO 20;
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41 create table census.psam_h17_subset1_cluster_agg&k. as
42 select *
43 from census.psam_h17_subset1_20clusters_agg
44 where CLUSTER=&k.;
45 %END;
46 QUIT;
47 %mend;
48 %sqlloop;
49
50 /*Plot TAXP distribution across the clusters*/
51
52 proc freq data=census.psam_h17_subset1_20clusters_agg;

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50 /*Plot TAXP distribution across the clusters*/
51
52 proc freq data=census.psam_h17_subset1_20clusters_agg;
53 tables TAXP*Cluster;
54 run;
55
56 proc freq data=census.psam_h17_subset1_20clusters_agg;
57 tables WIF*Cluster;
58 run;
59
60 proc freq data=census.psam_h17_subset1_20clusters_agg;
61 tables MV*Cluster;
62 run;
63
64 proc freq data=census.psam_h17_subset1_20clusters_agg;
65 tables SMX*Cluster;
66 run;
67
68 proc freq data=census.psam_h17_subset1_20clusters_agg;
69 tables WORKSTAT*Cluster;
70 run;

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