```
options pagesize=50 linesize=80;
options formchar='|----|+|---+=|-/\<>*';
title1 "SYC Data Preprocessing";
footnote "SYC Data Preprocessing";
/* creating dataset */
data SYC;
    infile "/home/u63744989/dataset/syc.txt" missover firstobs = 2 delimiter = ',';
    /* before read in the data, we manually delete the instructions on the top of the txt file */
    input stratum psu psusize initwt finalwt randgrp age race ethnicty educ
    sex livewith famtime crimtype everviol numarr probtn corrinst evertime
    prviol prprop prdrug prpub prjuv agefirst usewepn alcuse everdrug;
    /* creating labels */
    label age = "age";
    label race = "race";
    label sex = 'gender';
    label stratum = "stratum";
    label numarr = "number of prior arrest";
    label prviol = "previously arrested for violent crime";
    label everdrug = "ever used illegal drugs";
    label finalwt = "final sampling weight";
    /* Change the missing values to . for those variables whose missing values is 9*/
    array missing_ls_1 race sex numarr prviol everdrug;
    do over missing_ls_1;
       if (missing ls 1 = 9) then missing ls 1 = .;
    end:
    /st Change the missing values to . for those variables whose missing values is 99*/
    array missing_ls_2 age;
    do over missing_ls_2;
        if (missing_ls_2 = 99) then missing ls 2 = .;
    /* Keep only the necessary columns, i.e. the 8 variables mentioned */
    keep stratum numarr age race sex prviol everdrug finalwt;
run:
/* sort the dataset by stratum in an ascending order*/
proc sort data=SYC;
   by stratum;
run:
/* output dataset to a csv file saved as the syc for sas processing*/
proc export data=SYC
    outfile='/home/u63744989/dataset/syc sas.csv'
    dbms=csv
    replace;
run;
data SYC;
    set SYC;
    keep stratum finalwt;
run;
proc export data=SYC
    outfile = '/home/u63744989/dataset/syc_r.csv'
    dbms = csv
    replace;
run:
/* View overview of the stratum variable */
proc freq data=SYC;
  tables stratum / nocol;
  title "Overview of Stratum Variable";
run:
ods pdf file='/home/u63744989/figures/output_1.pdf';
ods _all_ close;
```

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