

SAS Final Project

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CODE:

```
proc format;
value pop2000_
-100000 - 18.7 = 'Less than Q1'      /*These values were changed to the */
18.71 - 30 = 'Q1 to Median'          /* corresponding variable statistical*/
30.01 - 43.3 = 'Median to Q3'        /*values. These values are of Dentist_Rate*/
43.31 - 1000000 = 'Greater than Q3'
;
run;

data final;
set work.import;
run;

proc means data=final nolabels maxdec=1
    Q1 Median Q3;
var No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes
Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate;
run;

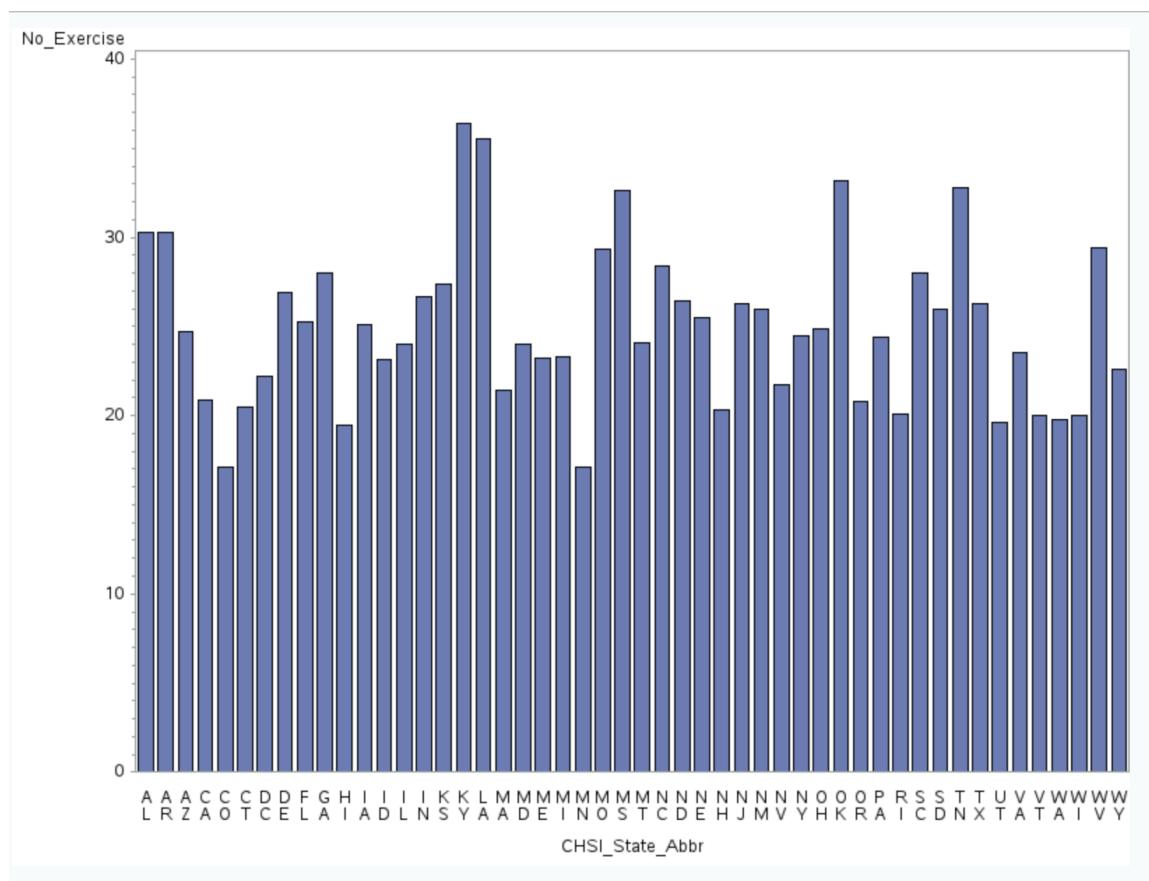
proc univariate data=final noprint;
var Dentist_Rate;                      /*the variables are changed accordingly*/
output out=PctlStrength q3=Q3 median=Median q1=Q1;
run;

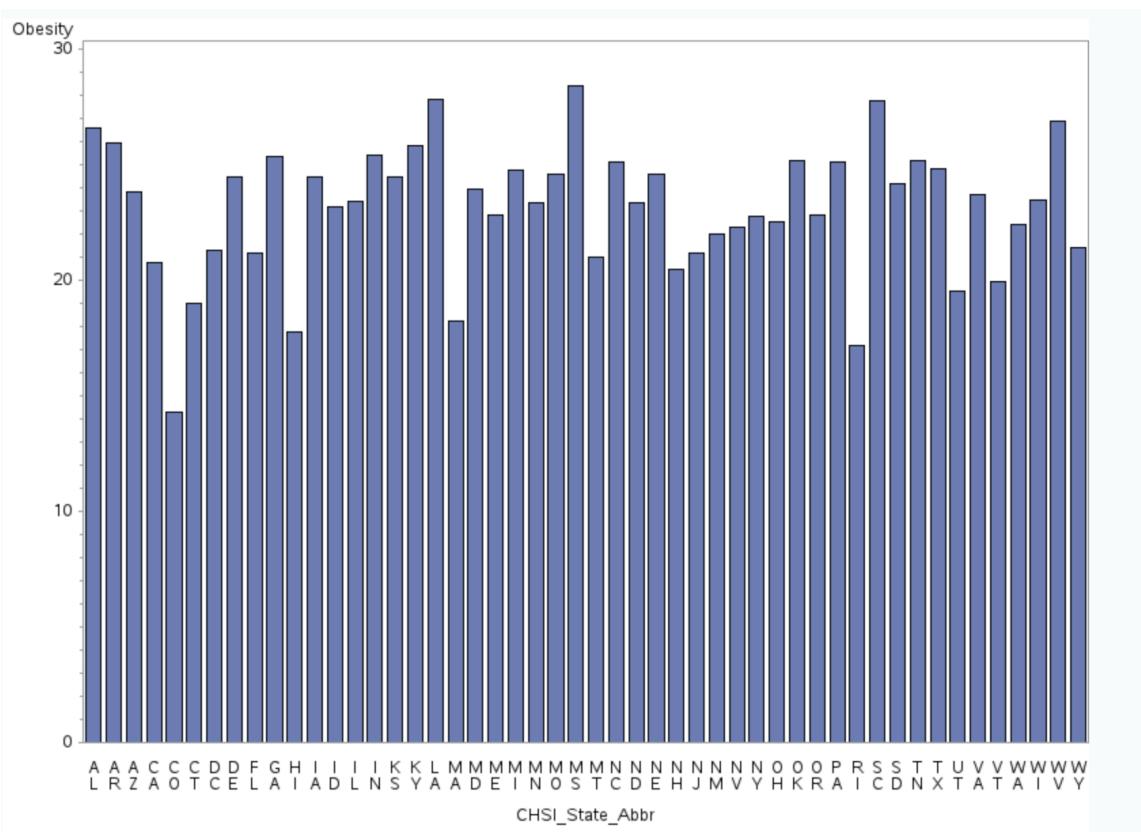
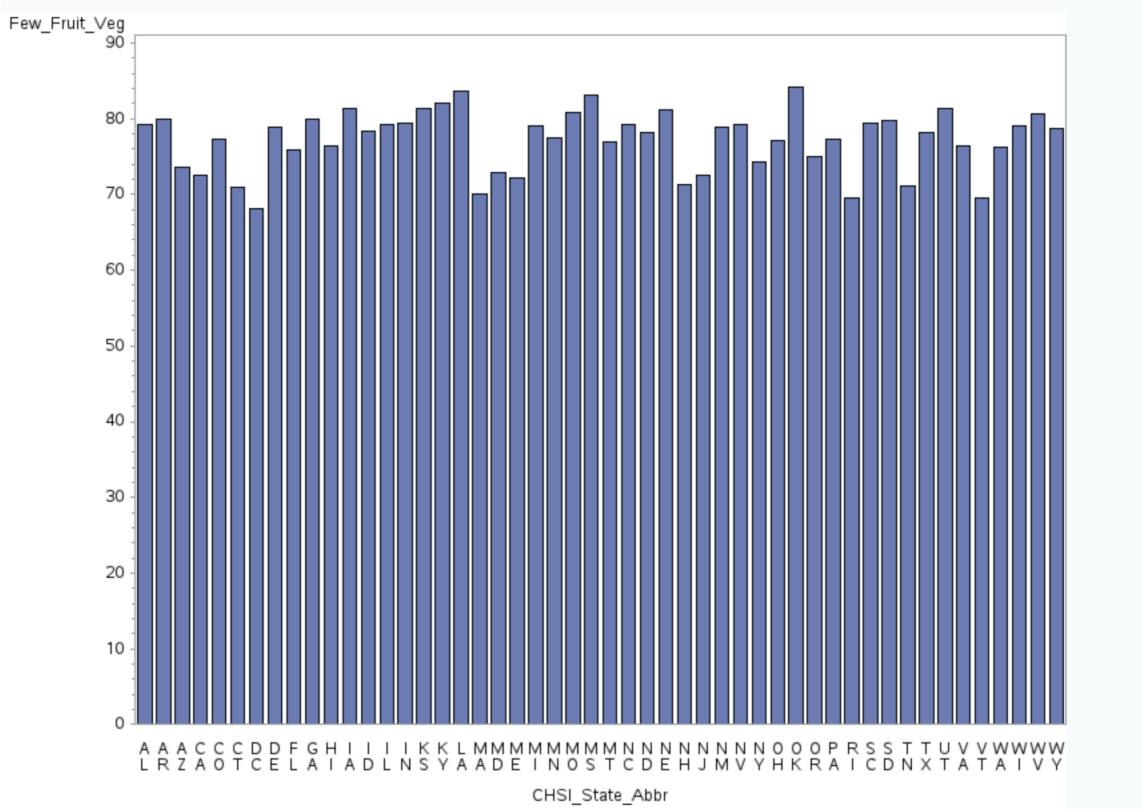
proc print data=pctlstrength;
run;

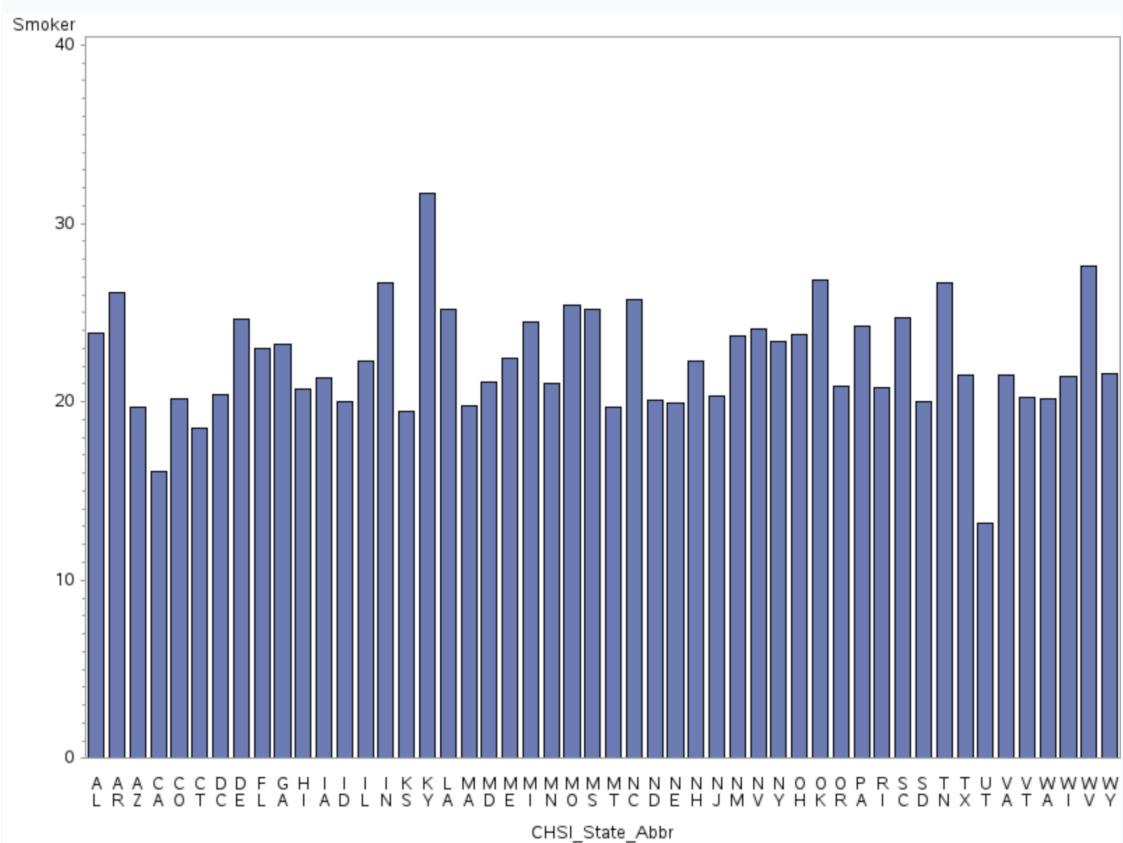
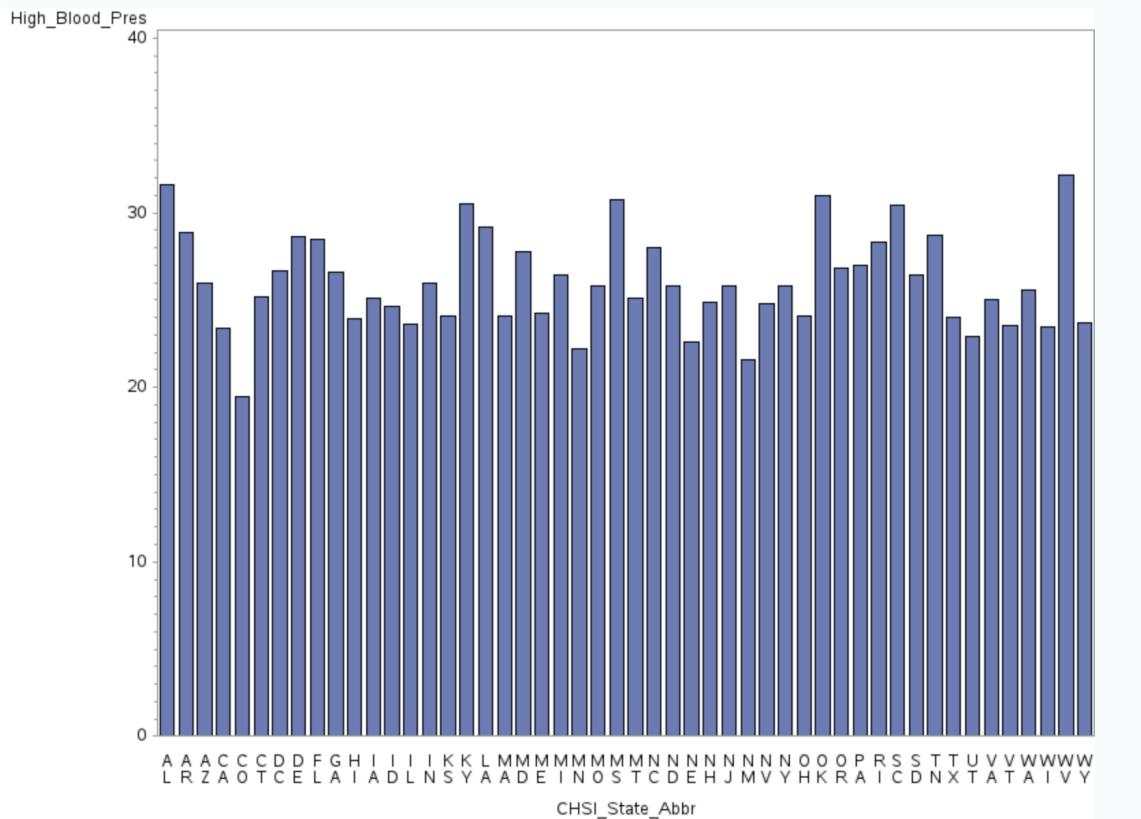
pattern1 v=s c=greyff;
pattern2 v=s c=greyda;
pattern3 v=s c=greyaa;
pattern4 v=s c=grey68;

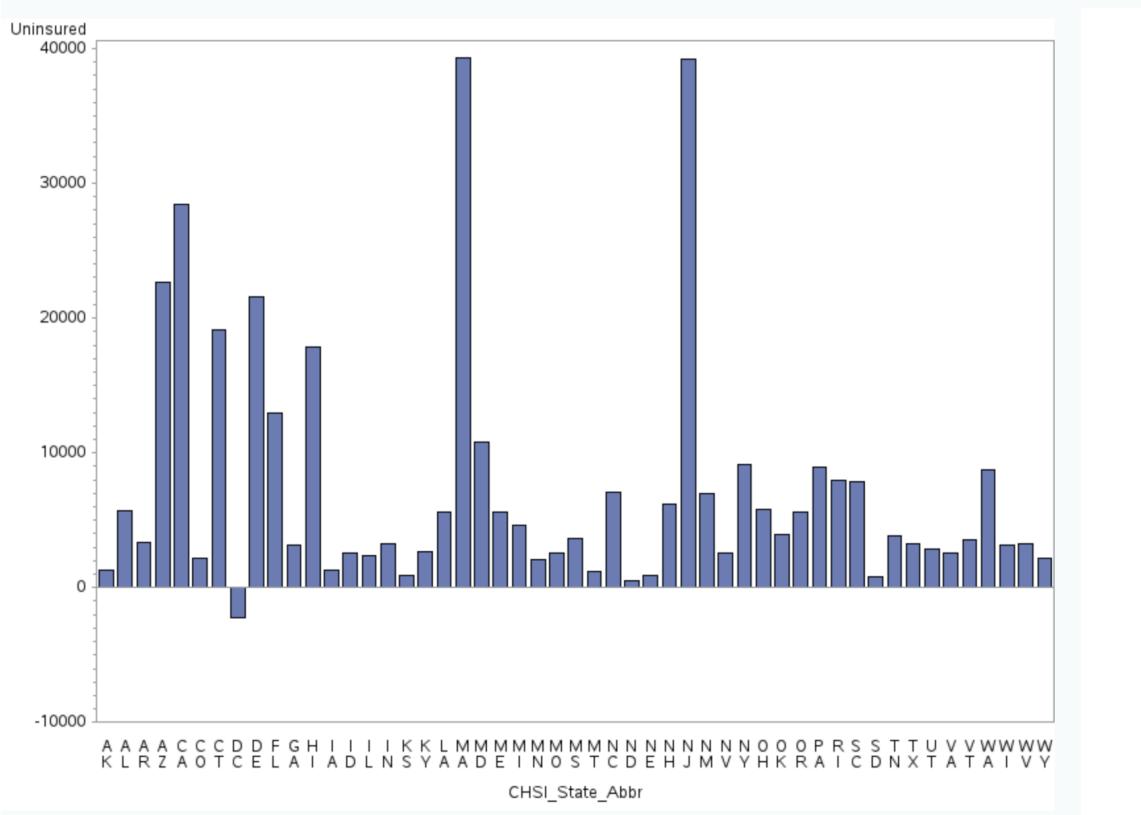
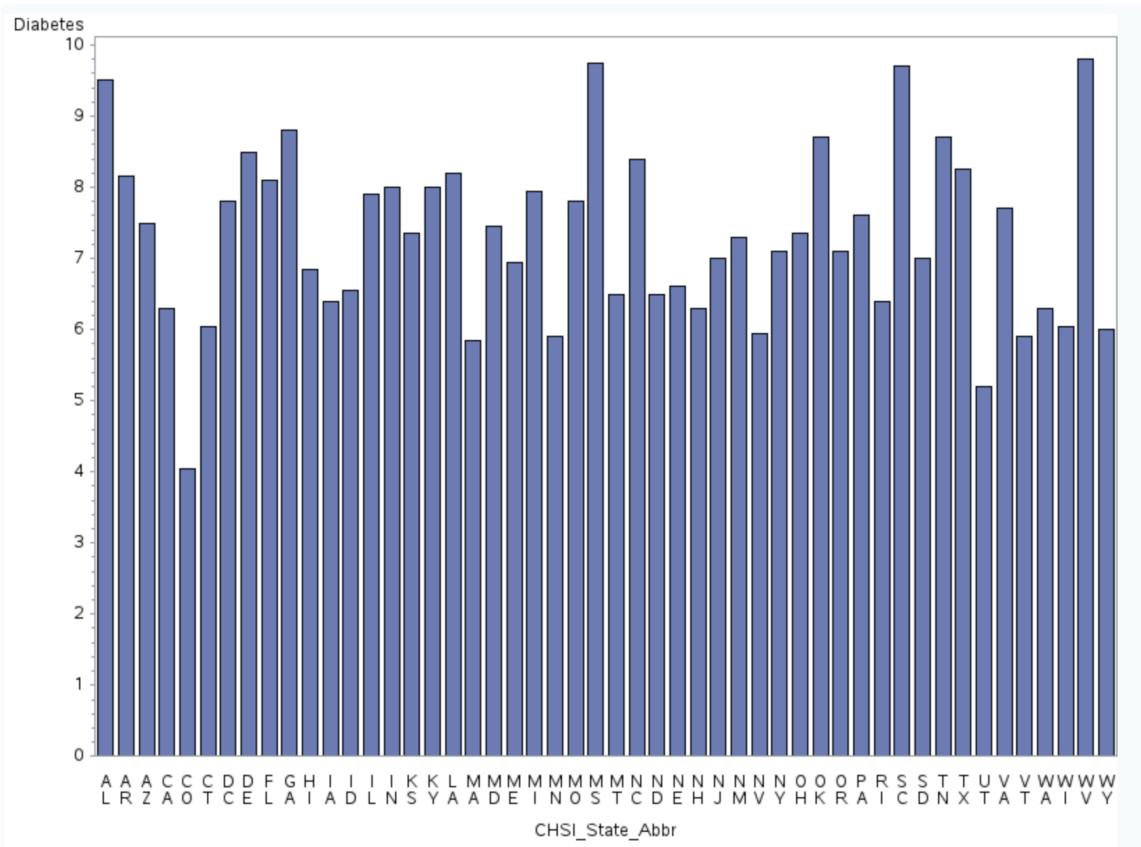
title 'Dentist_Rate - US MAP';           /*title changed accordingly*/
proc gmap
map=maps.us
data=final
all;
id state;
format Dentist_Rate pop2000_;;          /*variable changed accordingly*/
choro Dentist_Rate / discrete ;        /*variable changed accordingly*/
```

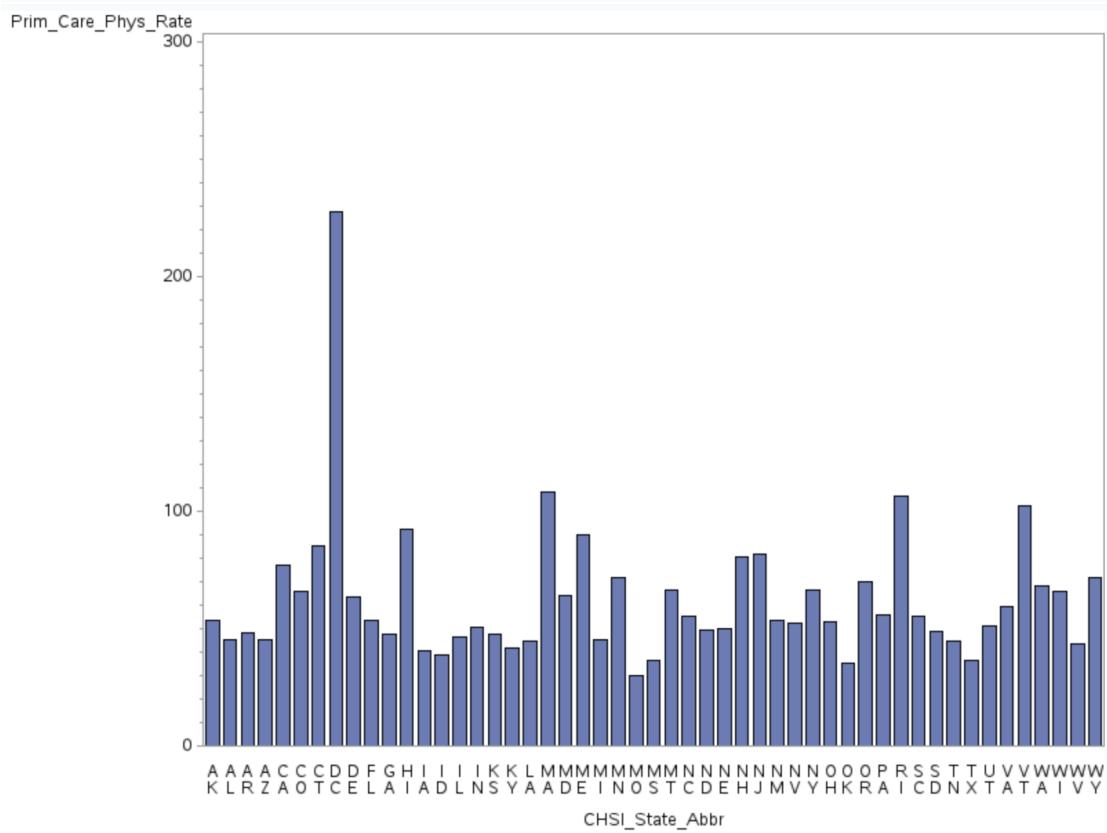
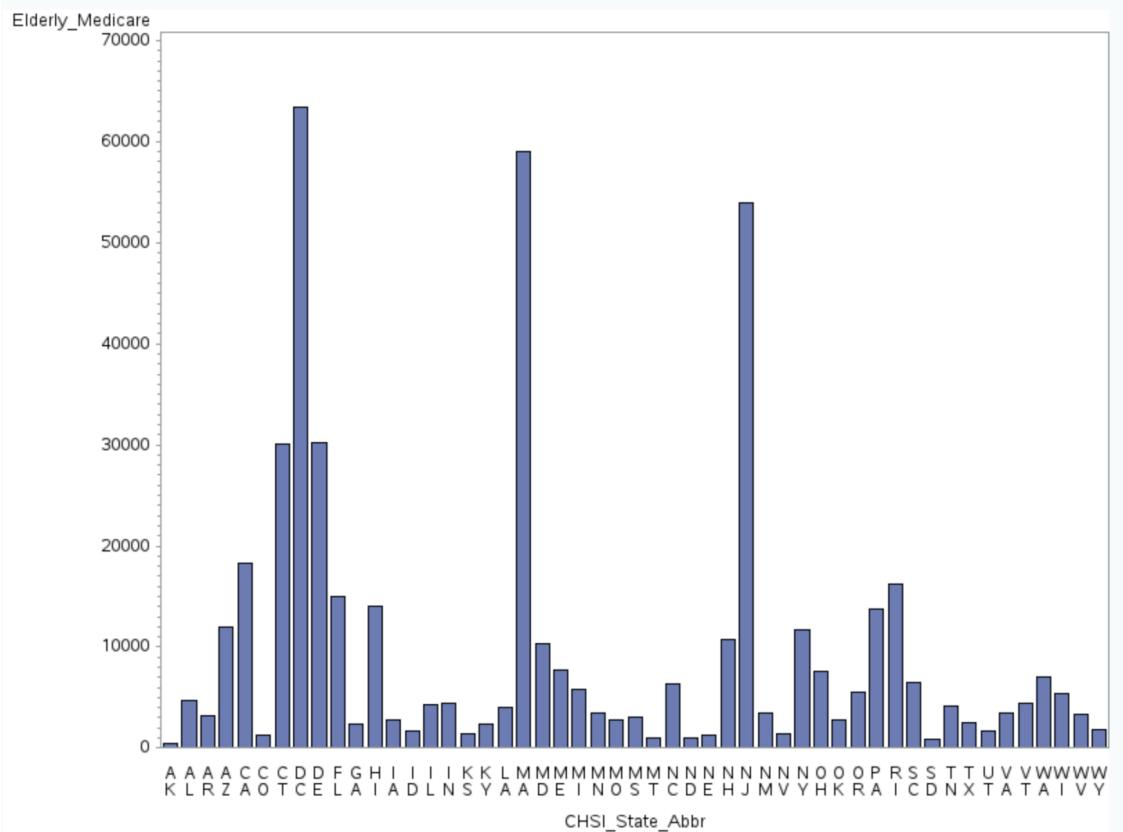
OUTPUT:

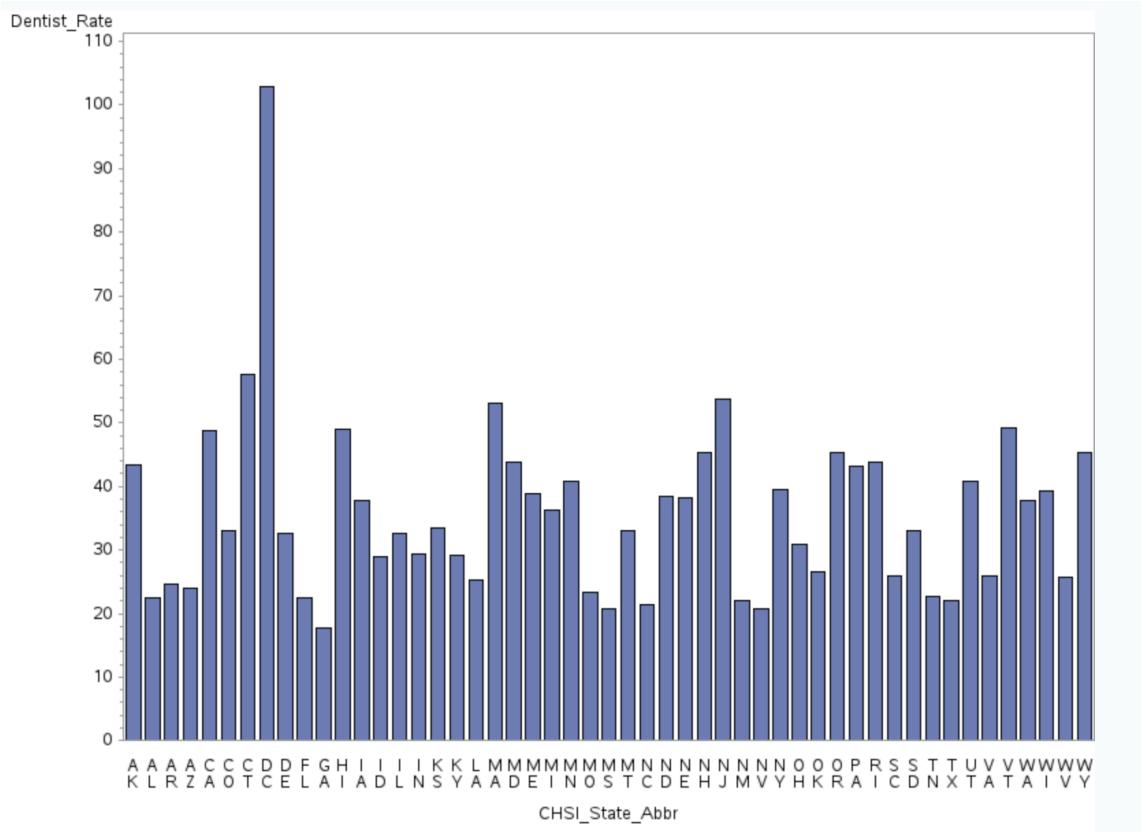








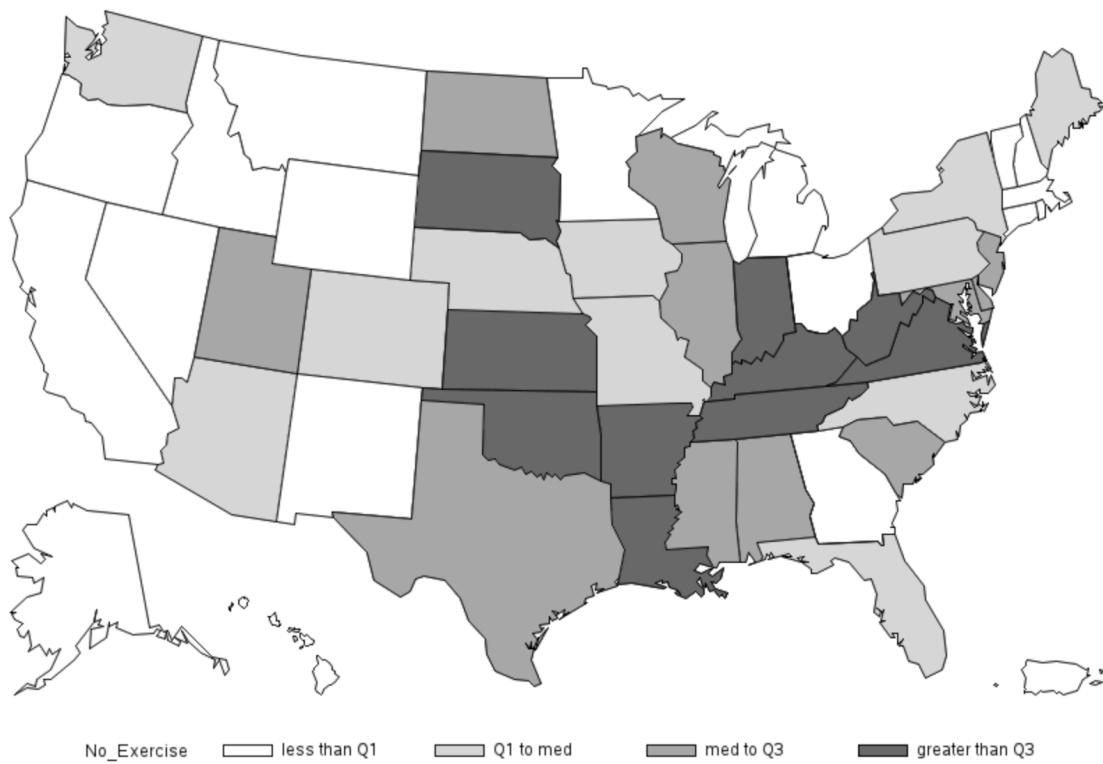




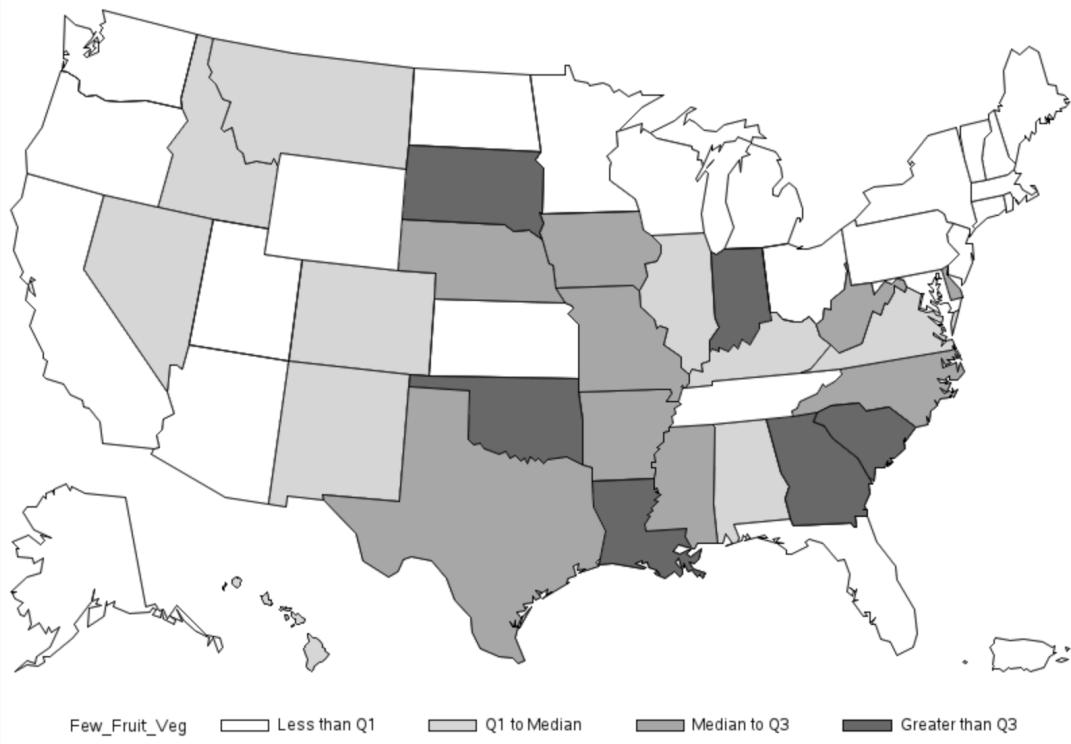
The MEANS Procedure

| Variable | Lower Quartile | Median | Upper Quartile |
|---------------------|----------------|--------|----------------|
| No_Exercise | 21.9 | 26.0 | 30.8 |
| Few_Fruit_Veg | 75.5 | 79.0 | 82.4 |
| Obesity | 21.1 | 24.3 | 27.2 |
| High_Blood_Pres | 22.8 | 26.2 | 29.9 |
| Smoker | 19.4 | 23.0 | 26.7 |
| Diabetes | 5.9 | 7.5 | 9.4 |
| Uninsured | 1549.0 | 3426.0 | 8116.0 |
| Elderly_Medicare | 1607.0 | 3448.0 | 8053.0 |
| Prim_Care_Phys_Rate | 30.5 | 50.6 | 74.7 |
| Dentist_Rate | 18.7 | 30.0 | 43.3 |

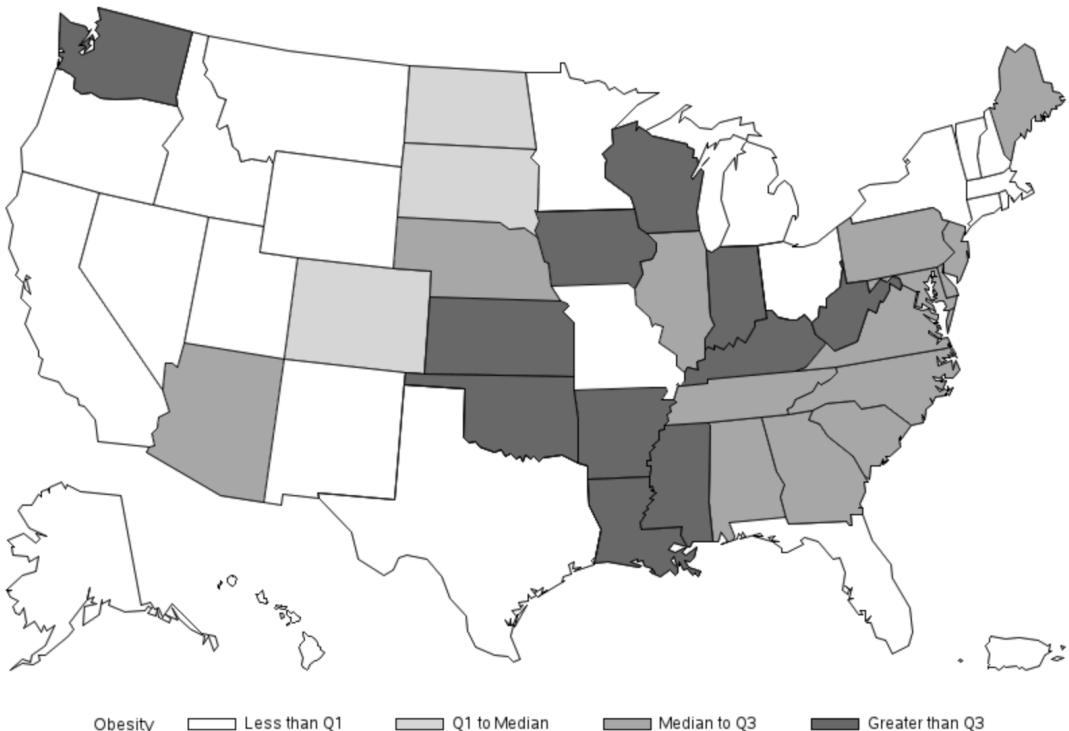
No_Exercise - US MAP



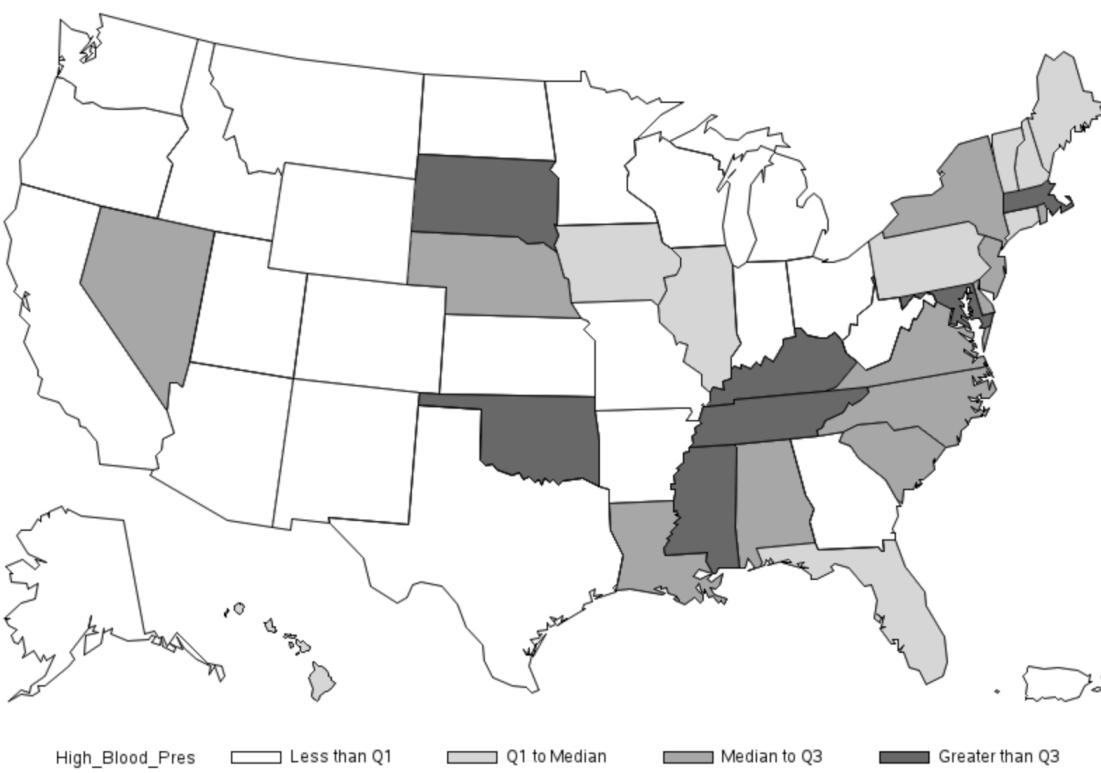
Few_Fruit_Veg - US MAP



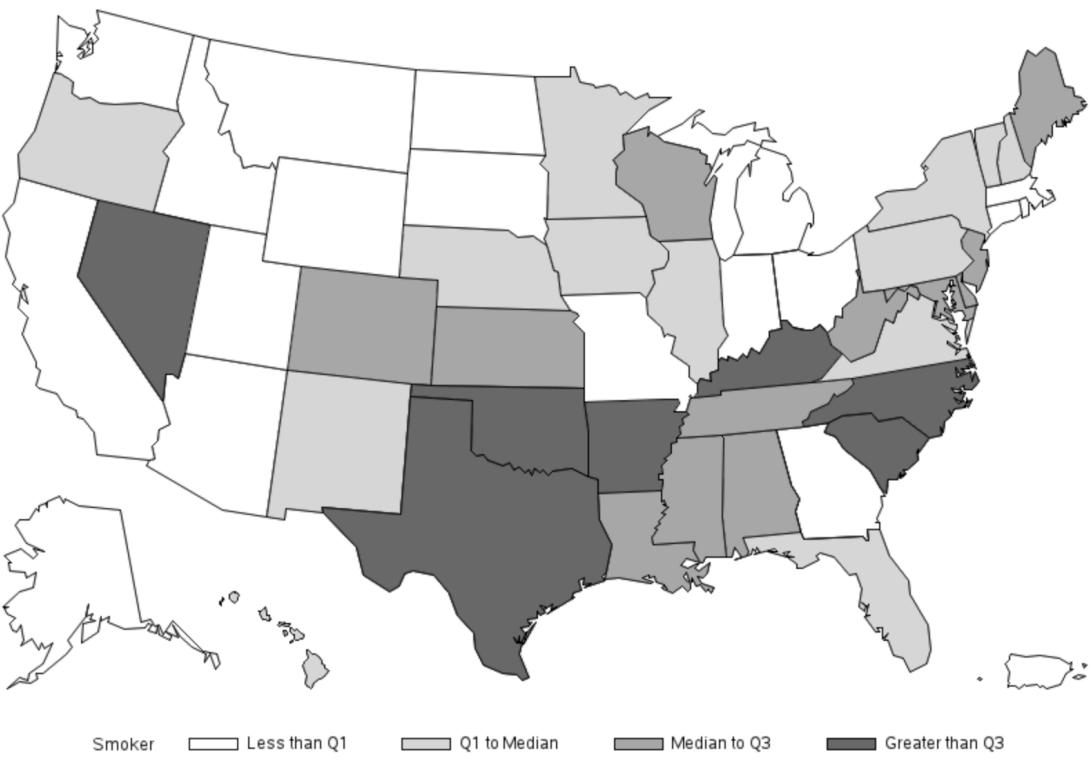
Obesity - US MAP



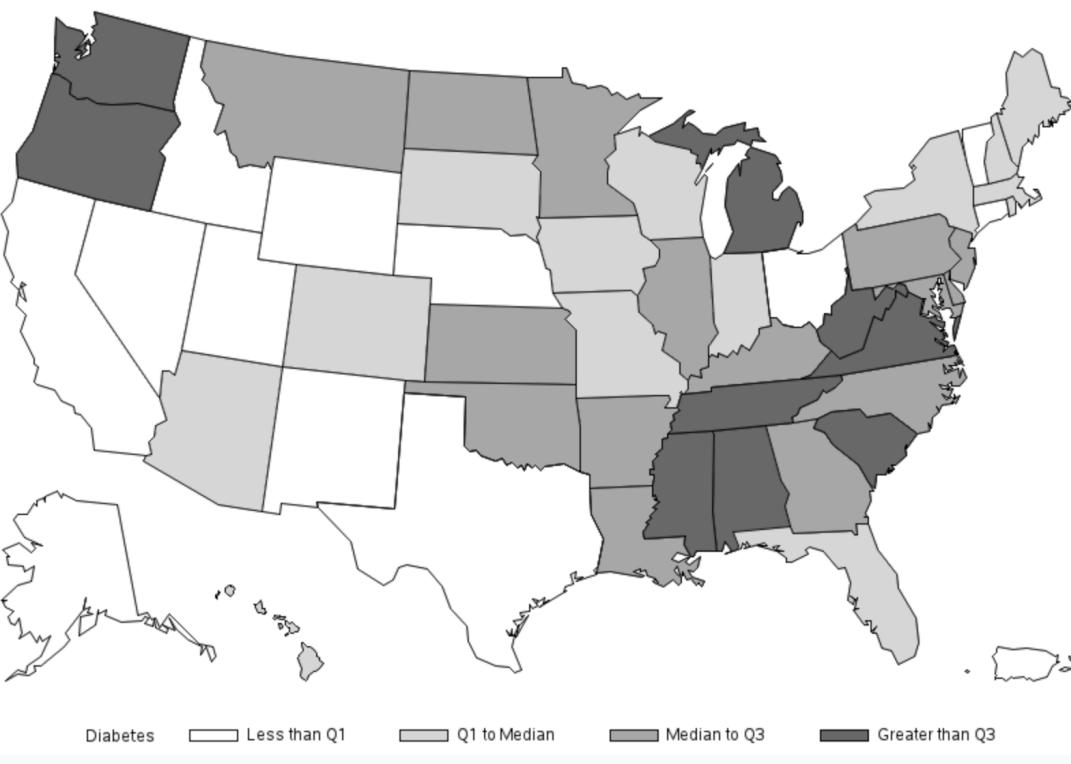
High_Blood_Pres - US MAP



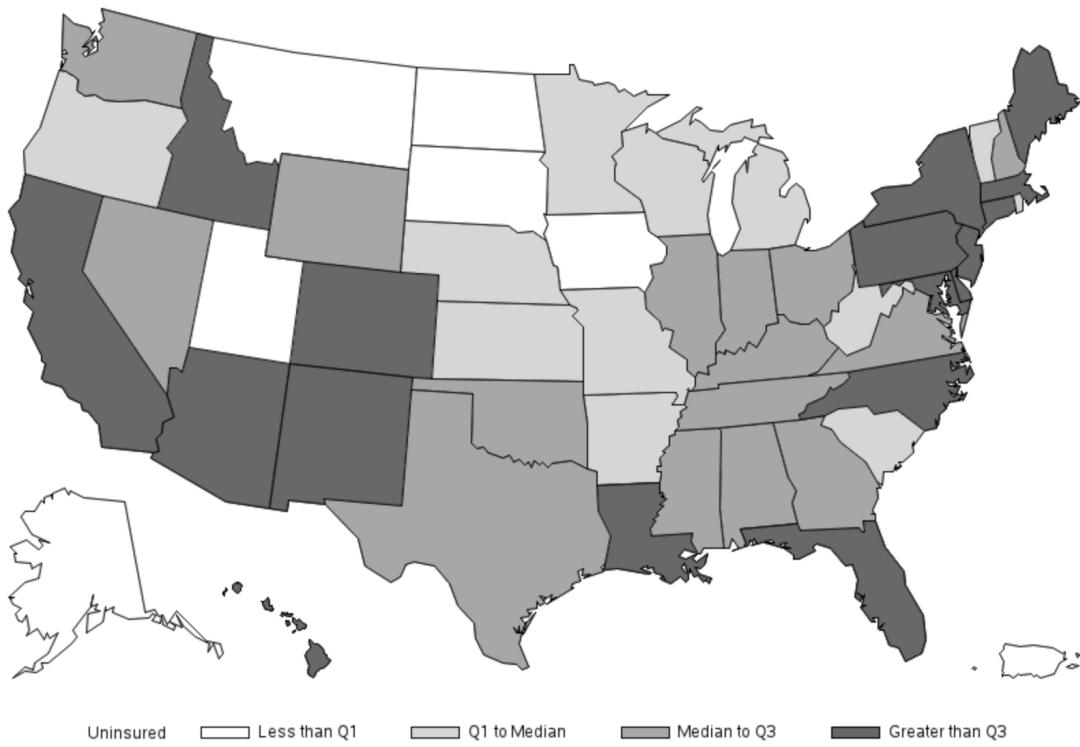
Smoker - US MAP



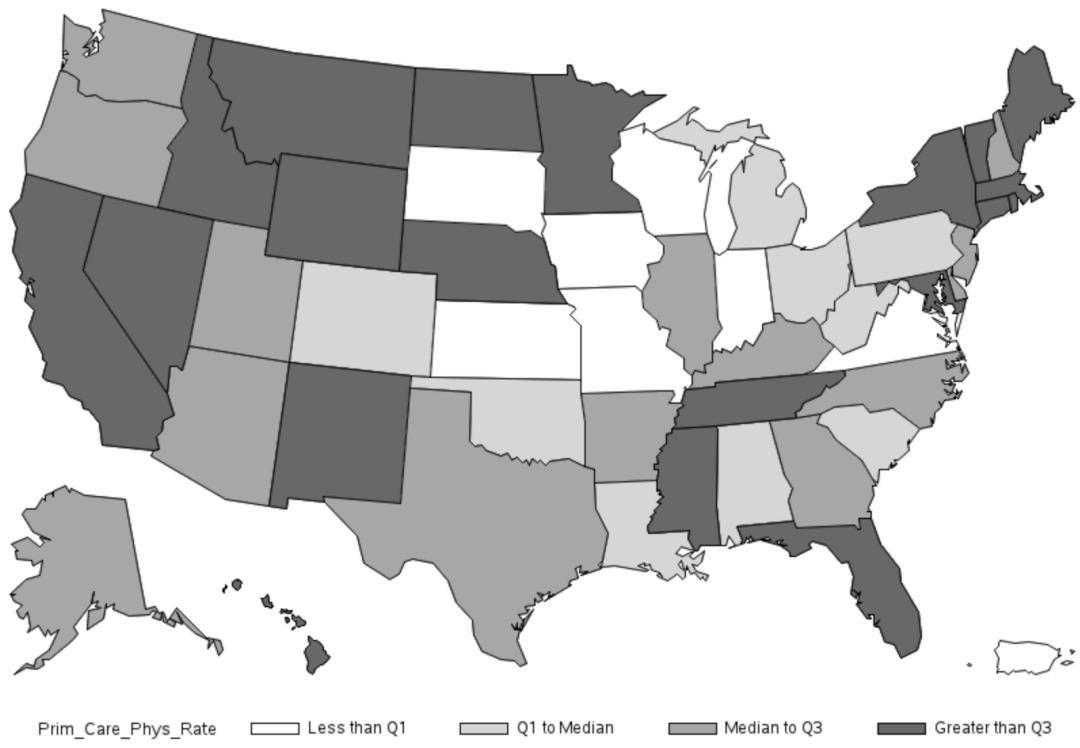
Diabetes - US MAP



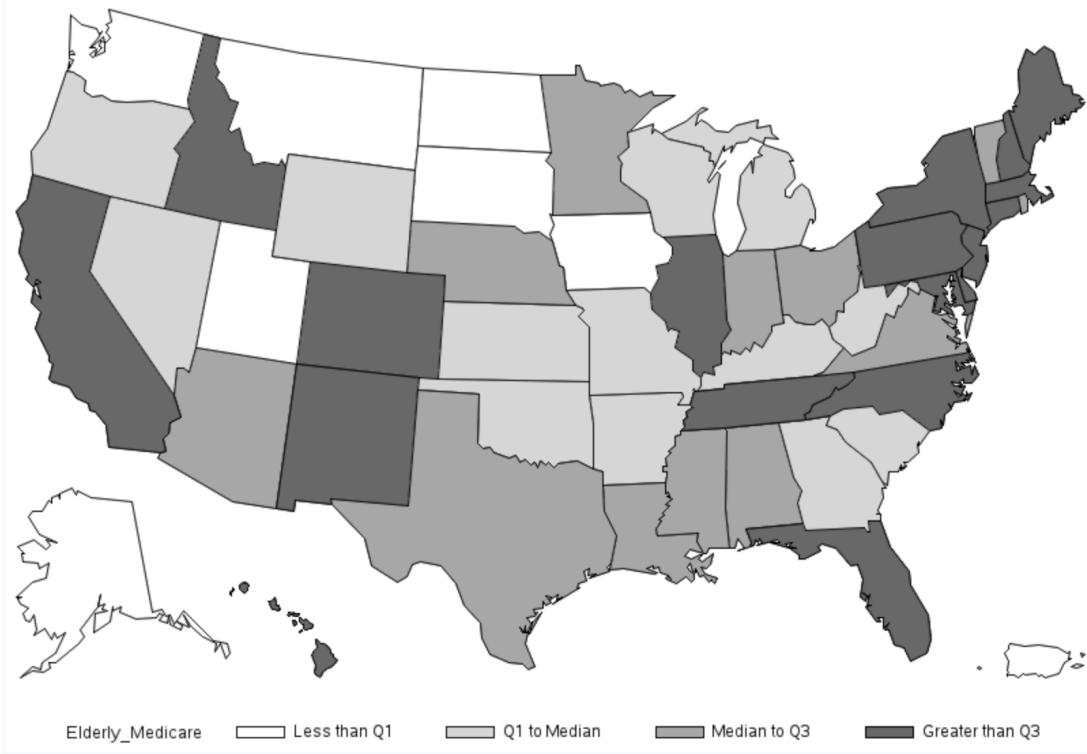
Uninsured - US MAP



Prim_Care_Phys_Rate - US MAP



Elderly_Medicare - US MAP



Dentist_Rate - US MAP

