Md Mahi Uddin

SAS programming

Final Exam Report

Question No 1: After importing data set, I replaced missing values and Clean Data. Used array function or do loop to clean data. I did not repeat same code for ten times. Worked on ten given variables.

Replacing missing vale: (10 rows are included here)

Listing of	observations	after rep	lacing mis	ssing value	with dot

Obs	State_FIPS_Code	County_FIPS_Code	CHSI_County_Name	CHSI_State_Name	CHSI_State_Abbr	Strata_ID_Number	No_Exercise	CI_Min_No_Exercise
1	1	1	Autauga	Alabama	AL	29	27.8	20.7
2	1	3	Baldwin	Alabama	AL	16	27.2	23.2
3	1	5	Barbour	Alabama	AL	51		
4	1	7	Bibb	Alabama	AL	42		
5	1	9	Blount	Alabama	AL	28	33.5	26.3
6	1	11	Bullock	Alabama	AL	75		
7	1	13	Butler	Alabama	AL	76	24.5	15.5
8	1	15	Calhoun	Alabama	AL	6	29.2	25.1
9	1	17	Chambers	Alabama	AL	50	34.7	25.3
10	1	19	Cherokee	Alabama	AL	64		

CI_Max_No_Exercise	Few_Fruit_Veg	CI_Min_Fruit_Veg	CI_Max_Fruit_Veg	Obesity	CI_Min_Obesity	CI_Max_Obesity	High_Blood_Pres	CI_Min_High_Blood_Pres
34.9	78.6	69.4	87.8	24.5	17.3	31.7	29.1	19.2
31.2	76.2	71.2	81.3	23.6	19.5	27.6	30.5	24.5
				25.6	16.2	35		
	86.6	77.8	95.4					
40.6	74.6	66.1	83	24.2	17.2	31.2		
33.5				22	13	31		
33.3	81.9	77.2	86.7	27	22.8	31.1	33.2	26.9
44	84.6	75.4	93.7					

CI_Max_High_Blood_Pres	Smoker	CI_Min_Smoker	CI_Max_Smoker	Diabetes	CI_Min_Diabetes	CI_Max_Diabetes	Uninsured	Elderly_Medicare	Disabled_Medicare
39	26.6	19.1	34	14.2	9.1	19.3	5690	4762	1209
36.6	24.6	20.3	28.8	7.2	5.2	9.3	19798	22635	3839
	17.7	10.2	25.1	6.6	2	11.3	5126	3288	1092
				13.1	4.7	21.5	3315	2390	974
	23.6	16.7	30.4	8.4	4.4	12.4	8131	5019	1300
							2295	1433	504
	27.3	17.6	37	9.5	4.4	14.6	4055	3150	952
39.6	25.5	21.3	29.7	11.2	8.4	13.9	16456	16440	5301
	11.7	6.2	17.1	17.1	10.2	24.1	5533	5473	1497
	23.6	14.2	33	13.3	6.8	19.8	3583	3086	854

Prim_Care_Phys_Rate	Dentist_Rate	Community_Health_Center_Ind	HPSA_Ind
45.3	22.6	1	2
67	30.8	1	2
45.8	24.6	1	2
41.8	18.6	1	1
16.2	10.8	2	1
54.3	18.1	1	1
43.3	19.3	1	2
75.8	41.9	1	2
53.6	22.6	1	2
28.5	12.2	2	1

Clean Data: (Keeping 10 selected variables with state name, only first 10 rows included here)

	Listing of selected variable													
CHSI_State_Name	No_Exercise	Few_Fruit_Veg	Obesity	High_Blood_Pres	Smoker	Diabetes	Uninsured	Elderly_Medicare	Prim_Care_Phys_Rate	Dentist_Rate				
Alabama	27.8	78.6	24.5	29.1	26.6	14.2	5690	4762	45.3	22.6				
Alabama	27.2	76.2	23.6	30.5	24.6	7.2	19798	22635	67	30.8				
Alabama			25.6	-	17.7	6.6	5126	3288	45.8	24.6				
Alabama		86.6				13.1	3315	2390	41.8	18.0				
Alabama	33.5	74.6	24.2		23.6	8.4	8131	5019	16.2	10.8				
Alabama							2295	1433	54.3	18.				
Alabama	24.5		22		27.3	9.5	4055	3150	43.3	19.				
Alabama	29.2	81.9	27	33.2	25.5	11.2	16456	16440	75.8	41.				
Alabama	34.7	84.6			11.7	17.1	5533	5473	53.6	22.0				
Alabama					23.6	13.3	3583	3086	28.5	12.				

Question No 2: Mean of ten variables for each state without repeating mean function ten times

Me	an of s	elected variables						
The MEANS Procedure								
CHSI_State_Name	N Obs	Variable	Mean					
Alabama	67	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	29.7950000 80.0800000 26.8975610 31.6000000 23.8229167 9.6515625 9946.93 8486.25 49.7582090 23.9776119					
Alaska	27	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	3608.78 1694.09 62.0703704 40.8777778					
		_						
Arizona	15	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	25.3571429 73.3642857 22.3785714 25.2230769 19.9785714 7.7000000 63148.73 41848.53 52.8400000 26.4133333					
Arkansa	75	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	31.2640625 80.2101695 25.7363836 28.8031250 26.5746269 8.1770270 5683.59 4830.21 52.0680000 26.5240000					
Califor	58	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist Rate	21.3657895 72.2088968 20.0921053 23.4100000 15.4153846 6.8422222 110164.72 61300.47 78.5293103 47.1413793					

Colorad	64	No_Exercise	17.8774194
		Few_Fruit_Veg	77.8730769
		Obesity	15.2567568
		High_Blood_Pres	18.8884615
		Smoker	19.6333333
		Diabetes	4.2833333
		Uninsured	10424.29
		Elderly_Medicare	6947.54
		Prim_Care_Phys_Rate	68.3812500
		Dentist_Rate	33.8857143
Connect	8	No_Exercise	20.9375000
		Few_Fruit_Veg	71.3250000
		Obesity	19.3125000
		High_Blood_Pres	24.8500000
		Smoker	19.4375000
		Diabetes	5.9875000
		Uninsured	43486.25
		Elderly_Medicare	57259.00
		Prim_Care_Phys_Rate	97.0750000
		Dentist_Rate	57.0000000
Delawar	3	No_Exercise	25.9333333
		Few_Fruit_Veg	79.1666667
		Obesity	23.4000000
		High_Blood_Pres	28.9666667
		Smoker	23.8000000
		Diabetes	8.0000000
		Uninsured	30153.00
		Elderly_Medicare	33950.00
		Prim_Care_Phys_Rate	70.4666667
		Dentist_Rate	31.1000000
Distric	1	No_Exercise	22.2000000
		Few_Fruit_Veg	68.1000000
		Obesity	21.3000000
		High_Blood_Pres	26.7000000
		Smoker	20.4000000
		Diabetes	7.8000000
		Uninsured	80400.00
		Elderly_Medicare	63403.00 227.6000000
		Prim_Care_Phys_Rate Dentist Rate	102.8000000
		_	
Florida	67	No_Exercise	26.4169811
		Few_Fruit_Veg	76.4340000
		Obesity	22.2228070
		Ulinh Dinad Dana	20.0202054

High_Blood_Pres

Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate

Smoker

Diabetes

159

Georgia

Uninsured

No_Exercise Few_Fruit_Veg

High_Blood_Pres

Elderly_Medicare Prim_Care_Phys_Rate

Dentist_Rate

Obesity

Smoker

Diabetes Uninsured 28.8282051

23.0905860

8.5453125

37420.84

38174.27 56.1746269 26.1835821 28.0476744

80.0448718

25.1233333

25.8883721

23.0212121 8.6613636

51.1201258

19.6509434

8061.11 4938.38

	_		
Hawaii	5	No_Exercise	19.1000000
		Few_Fruit_Veg	76.2500000
		Obesity	18.1250000
		High_Blood_Pres	23.8500000
		Smoker	20.1500000
		Diabetes	6.6500000
		Uninsured	39445.25
		Elderly_Medicare	39252.50
		Prim_Care_Phys_Rate	80.9600000
		Dentist_Rate	46.8400000
Idaho	44	No_Exercise	22.6214286
		Few_Fruit_Veg	78.4307692
		Obesity	22.6523810
		High_Blood_Pres	25.4647059
		Smoker	19.4341463
		Diabetes	6.4142857
		Uninsured	4876.23
		Elderly_Medicare	3553.60
		Prim_Care_Phys_Rate	44.6795455
		Dentist_Rate	32.4386364
Illinoi	102	No_Exercise	24.2630435
		Few_Fruit_Veg	78.8137931
		Obesity	22.8226415
		High_Blood_Pres	23.3172414
		Smoker	22.8254902
		Diabetes	7.7098765
		Uninsured	15915.50
		Elderly_Medicare	14170.84
		Prim_Care_Phys_Rate	51.7843137
		Dentist Rate	33.1382353

Indiana	92	No_Exercise	27.3700000
		Few_Fruit_Veg	79.7863636
		Obesity	25.6687500
		High_Blood_Pres	25.1363636
		Smoker	26.3670732
		Diabetes	7.8876404
		Uninsured	7552.09
		Elderly_Medicare	8112.65
		Prim_Care_Phys_Rate	55.0467391
		Dentist_Rate	30.1858696
owa	99	No_Exercise	25.2289157
		Few_Fruit_Veg	81.1604938
		Obesity	24.0891566
		High_Blood_Pres	25.3121951
		Smoker	21.1422222
		Diabetes	6.9494949
		Uninsured	2539.34
		Elderly_Medicare	4299.26
		Prim_Care_Phys_Rate	44.6535354
		Dentist_Rate	38.6808081
ansas	105	No_Exercise	27.5279412
		Few_Fruit_Veg	81.5775510
		Obesity	23.2661972
		High_Blood_Pres	24.3032258
		Smoker	19.5126582
		Diabetes	7.3969388
		Uninsured	3024.21
		Elderly_Medicare	3282.50
		Prim_Care_Phys_Rate	51.2047619
		Dentist Rate	31.8019048

Kentuck	120	No_Exercise Few_Fruit_Veg	35.3870000 81.8388350
		Obesity High_Blood_Pres Smoker	26.5313725 30.3864407 31.4134021
		Diabetes Uninsured	8.2410256 4444.01
		Elderly_Medicare Prim_Care_Phys_Rate	4158.57 51.5033333
		Dentist_Rate	30.7175000
Louisia	64	No_Exercise Few Fruit Veg	35.4836364 84.0905660
		Obesity	27.6894737
		High_Blood_Pres Smoker	29.5769231 24.6379310
		Diabetes	8.7000000
		Uninsured Elderly_Medicare	11561.03 7870.17
		Prim_Care_Phys_Rate	52.9593750
Maine	40	Dentist_Rate	25.9140825
Maine	16	No_Exercise Few_Fruit_Veg	23.7250000 72.3082500
		Obesity	22.0812500
		High_Blood_Pres Smoker	24.7937500 22.8437500
		Diabetes	7.1625000
		Uninsured Elderly_Medicare	6873.88 11529.81
		Prim_Care_Phys_Rate Dentist Rate	89.8625000 38.6000000
			30.5505555
Marylan	24	No_Exercise	24.9416867
		Few_Fruit_Veg Obesity	72.6772727 23.6041667
		High_Blood_Pres	27.8208333
		Smoker Diabetes	21.6291667 7.5833333
		Uninsured	27203.04
		Elderly_Medicare Prim_Care_Phys_Rate	24542.71 86.2333333
		Dentist_Rate	43.6583333
Massach	14	No_Exercise Few Fruit Veg	21.7230769 70.4583333
		Obesity	17.7357143
			24.0750000
		High_Blood_Pres Smoker	24.6750000 19.2153846
		Smoker Diabetes	19.2153846 5.7357143
		Smoker Disbetes Uninsured	19.2153846 5.7357143 42256.93
		Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate	19.2153846 5.7357143 42256.93 58704.57 119.2642857
Michioa	83	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	19.2153846 5.7357143 42256.93 58704.57 119.2642857 58.1928571
Michiga	83	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg	19.2153846 5.7357143 42256.93 58704.57 119.2642857 58.1928571 22.6253968 79.9000000
Michiga	83	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg Obesity	19.2153846 5.7357143 42256.93 58704.57 119.2642857 58.1928571 22.6253968 79.9000000 25.3616667
Michiga	83	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker	19.2153846 5.7357143 42256.93 58704.57 119.2642857 58.1928571 22.6253968 79.9000000 25.3616667 25.8777778 24.3607143
Michiga	83	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes	19.2153846 5.7357143 42256.93 58704.57 119.2642857 58.1928571 22.6253968 79.9000000 25.3616667 25.8777778 24.3607143 7.9921053
Michiga	83	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker	19.2153846 5.7357143 42256.93 58704.57 119.2642857 58.1928571 22.6253968 79.9000000 25.3616667 25.8777778 24.3607143

		_	
Minneso	87	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	17.8833333 78.1214286 22.7923077 23.1861111 20.9315789 6.0621622 5137.30 6834.05 72.5873563 40.3126437
Mississ	82	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	32.7705882 83.7573770 28.7507463 31.7718750 24.7253521 9.9637500 5856.51 4091.61 45.2646341 23.5024390
Missour	115	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	28.9345238 81.0166667 24.8552941 27.0342857 25.9061728 8.0709091 5762.50 6437.56 36.8339130 27.3869565
		warman_rama	L1.0000000
Montana	56	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	24.2604651 77.1071429 21.3976744 24.5612903 20.4042563 6.6021277 2550.82 2226.55 58.1428571 31.6517857
Nebrask	93	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	25.6507692 81.0981132 24.5015385 22.880000 19.4442857 6.8848101 2107.30 2687.07 51.6903226 40.5956989
Nevada	17	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist Rate	22.4500000 80.5250000 22.9928571 28.1111111 25.0384815 6.7357143 19031.47 13906.06 49.1705882 20.3470588

New Ham	10	No_Exercise Few_Fruit_Veg Obesity	20.8700000 71.5100000 20.5000000
		High_Blood_Pres Smoker	24.6000000 22.6800000
		Diabetes Uninsured	6.2800000 10079.10
		Elderly_Medicare	15196.70
		Prim_Care_Phys_Rate	101.8200000
		Dentist_Rate	44.6200000
New Jer	21	No_Exercise	26.4095238
		Few_Fruit_Veg Obesity	73.1809524 21.1571429
		High_Blood_Pres	26.3904762
		Smoker	20.1952381
		Diabetes	7.1523810
		Uninsured Elderly Medicare	49022.62 51087.10
		Prim_Care_Phys_Rate	92.4523810
		Dentist_Rate	57.2571429
New Mex	33	No Exercise	25.7733333
		Few_Fruit_Veg	79.1500000
		Obesity	21.5870968
		High_Blood_Pres Smoker	22.4458333 22.7103448
		Diabetes	7.4451613
		Uninsured	12929.42
		Elderly_Medicare	6393.27
		Prim_Care_Phys_Rate Dentist Rate	57.0030303 25.1242424
		Delius_Nate	20.1242424
	-	_	
New Yor	62	No_Exercise	24.6203704 74.8477273
		Few_Fruit_Veg Obesity	22.4310345
		High_Blood_Pres	25.9686887
		Smoker	23.8696429
		Diabetes	7.3393443
		Uninsured Elderly Medicare	42848.76 38072.92
		Prim Care Phys Rate	81.4129032
		Dentist_Rate	45.6709877
North C	100	No_Exercise	28.1855422
		Few_Fruit_Veg	78.7128571
		Obesity High_Blood_Pres	24.9137500 28.3274510
		Smoker	25.3975000
			25.3975000 8.9144330
		Smoker Diabetes Uninsured	8.9144330 11275.03
		Smoker Diabetes Uninsured Elderly_Medicare	8.9144330 11275.03 9802.08
		Smoker Diabetes Uninsured	8.9144330 11275.03
North D	53	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	8.9144330 11275.03 9802.08 65.0460000
North D	53	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate	8.9144330 11275.03 9802.08 65.0460000 24.6780000
North D	53	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg Obesity	8.9144330 11275.03 9802.08 65.0460000 24.6780000 26.4162791 78.3000000 24.1333333
North D	53	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres	8.9144330 11275.03 9802.08 65.0460000 24.6780000 26.4162791 78.3000000 24.1333333 25.1068966
North D	53	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker	8.9144330 11275.03 9802.08 65.0460000 24.6780000 26.4162791 78.3000000 24.1333333 25.1068966 19.7666667
North D	53	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres	8.9144330 11275.03 9802.08 65.0460000 24.6780000 26.4162791 78.3000000 24.1333333 25.1068966
North D	53	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare	8.9144330 11275.03 9802.08 65.0460000 24.6780000 26.4162791 78.3000000 24.1333333 25.1068966 19.7666667 6.9702128
North D	53	Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured	8.9144330 11275.03 9802.08 65.0460000 24.6780000 26.4162791 78.3000000 24.1333333 25.1068966 19.7666667 6.9702128 1136.23

Few_Fruit_Veg	Few_Fruit_Veg			_	
Few_Fruit_Veg	Few_Fruit_Veg 84.3844828 Obesity 25.5984615 High_Blood_Pres 30.9653846 Smoker 26.8890625 Diabetes 8.6600000 Uninsured 7529.96 Elderly_Medicare 7542.19 Prim_Care_Phys_Rate 28.5324675 Oregon 36 No_Exercise 20.3900000 Few_Fruit_Veg 74.8653846 Obesity 22.9133333 High_Blood_Pres 26.2800000 Smoker 20.2181818 Diabetes 6.8909091 Uninsured 12791.53 Elderly_Medicare 70.0833333	Ohio	88	Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate	24.3743590 78.4487179 22.9050000 23.6466667 23.6111111 7.4794118 12971.23 16886.84 56.4034091 31.5250000
Few_Fruit_Veg 74.8653846 Obesity 22.9133333 High_Blood_Pres 26.2800000 Smoker 20.2181818 Diabetes 6.8909091 Uninsured 12791.53 Elderly_Medicare 12372.50 Prim_Care_Phys_Rate 70.0833333	Few_Fruit_Veg 74.8653846 Obesity 22.9133333 High_Blood_Pres 26.2800000 Smoker 20.2181818 Diabetes 6.8909091 Uninsured 12791.53 Elderly_Medicare 12372.50 Prim_Care_Phys_Rate 70.0833333	Oklahom	77	Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate	32.7153846 84.3844828 25.5984615 30.9653846 26.8890625 8.6600000 7529.96 5742.19 38.8818182 28.5324675
		Oregon	36	Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate	20.3900000 74.8653846 22.9133333 26.2800000 20.2181818 6.8909091 12791.53 12372.50 70.0833333 43.6638889

Pennsyl	67	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	24.2918033 77.5703704 24.6655738 26.7707317 23.9790323 7.9546875 17807.15 27541.96 70.2298507 42.6402985
Rhode I	5	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	22.0800000 70.8400000 17.9400000 27.8200000 20.7600000 6.2400000 21163.80 29135.40 117.1800000 52.7000000
South C	46	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	27.7386364 79.0975610 28.0522727 31.0114286 25.0688889 9.986667 12690.15 10557.80 61.7456522 27.3913043

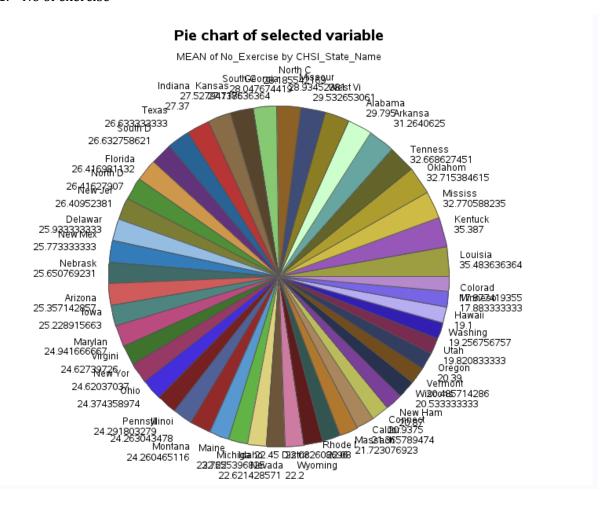
South D	66	No_Exercise	26.6327586
		Few_Fruit_Veg	79.4928571
		Obesity	24.8672414
		High_Blood_Pres	27.0905860
		Smoker	20.8796610
		Diabetes	7.5830508
		Uninsured	1344.18
		Elderly_Medicare	1627.41
		Prim_Care_Phys_Rate	52.9803030
		Dentist_Rate	30.9696970
Tenness	95	No_Exercise	32.6686275
		Few_Fruit_Veg	71.6500000
		Obesity	24.9081633
		High_Blood_Pres	30.0750000
		Smoker	27.0192308
		Diabetes	8.9407407
		Uninsured	7569.87
		Elderly_Medicare	7395.54
		Prim_Care_Phys_Rate	52.8484211
		Dentist_Rate	25.0915789
Texas	254	No_Exercise	26.6333333
		Few_Fruit_Veg	78.8183673
		Obesity	24.6484375
		High_Blood_Pres	23.9393939
		Smoker	21.3422535
		Diabetes	8.1414414
		Uninsured	15496.61
		Elderly_Medicare	8374.75
		Prim_Care_Phys_Rate	40.9082992
		Dentist_Rate	22.5807087
		_	
Utah	29	No_Exercise	19.8208333
		Few_Fruit_Veg	80.8380952
		Obesity	20.1041887
		High_Blood_Pres	22.4950000

Utah	29	No Exercise	19.820833
Utan	29	No_Exercise Few_Fruit_Veg	80.838095
		Obesity	20.104166
		High Blood Pres	22.495000
		Smoker	13.468000
		Diabetes	5.215384
		Uninsured	11119.1
		Elderly Medicare	6887.0
		Prim Care Phys Rate	49.089655
		Dentist_Rate	35.137931
Vermont	14	No_Exercise	20.485714
		Few_Fruit_Veg	70.221428
		Obesity	20.078571
		High_Blood_Pres	23.514285
		Smoker	20.664285
		Diabetes	5.835714
		Uninsured	3922.0
		Elderly_Medicare	5573.7
		Prim_Care_Phys_Rate	108.285714
		Dentist_Rate	44.000000
Virgini	134	No_Exercise	24.627397
		Few_Fruit_Veg	76.134042
		Obesity	23.587671
		High_Blood_Pres	25.718032
		Smoker	22.038888
		Diabetes	8.093693
		Uninsured	6376.7
		Elderly_Medicare	5926.7
		Prim_Care_Phys_Rate	83.664179
		Dentist_Rate	40.979104

		-	
Washing	39	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	19.2567568 76.7636364 22.9081081 26.0264706 20.2486486 6.9447368 20828.90 17095.54 67.8205128 36.6230769
West Vi	55	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	29.5326531 80.4697674 27.6081224 32.5406250 27.2038462 10.0345455 4234.47 4930.18 54.8127273 31.9690909
Wiscons	72	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Disbetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist_Rate	20.5333333 79.4529412 23.3067797 23.4552632 21.8786885 6.2838235 6928.99 9757.38 71.6589444 39.6263889
		_	
Wyoming	23	No_Exercise Few_Fruit_Veg Obesity High_Blood_Pres Smoker Diabetes Uninsured Elderly_Medicare Prim_Care_Phys_Rate Dentist Rate	22.0826087 78.1173913 21.1956522 24.6565217 21.3521739 5.7869565 3271.96 2585.13 68.9217391 41.5130435

Ten Pie-Charts of the selected variables: I calculate all digit after decimal value.

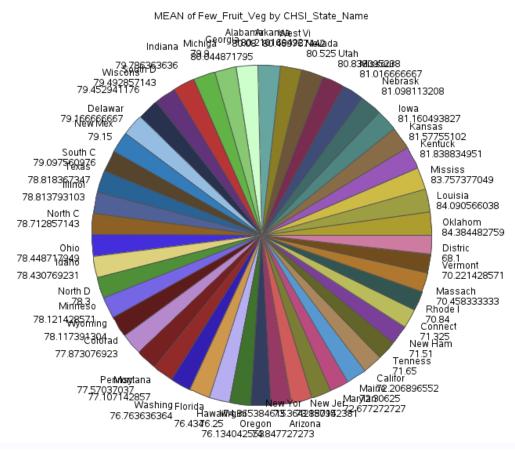
1. No of exercise



According to produced pie chart on Number of Exercise for all state in USA, Louisiana has the highest number while Colorado has the lowest position,

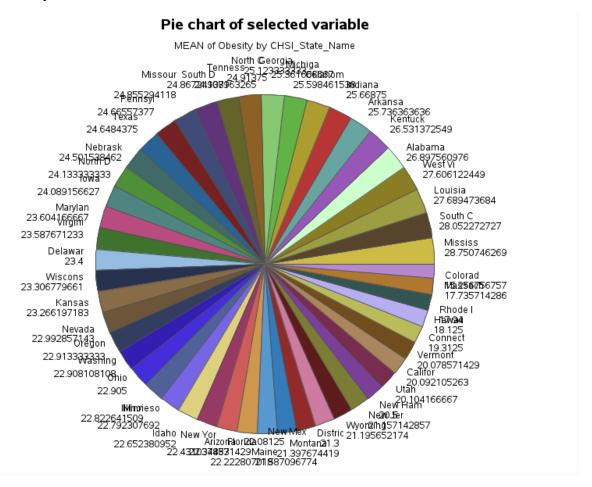
2. Few Fruit Vegetables

Pie chart of selected variable



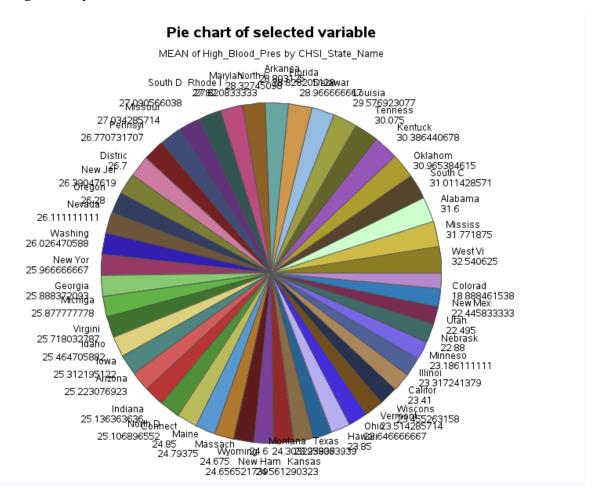
According to produced pie chart on few fruits or vegetables for all state in USA, the mean of Oklahama is the highest number and District has the lowest mean compare with other state.

3. Obesity



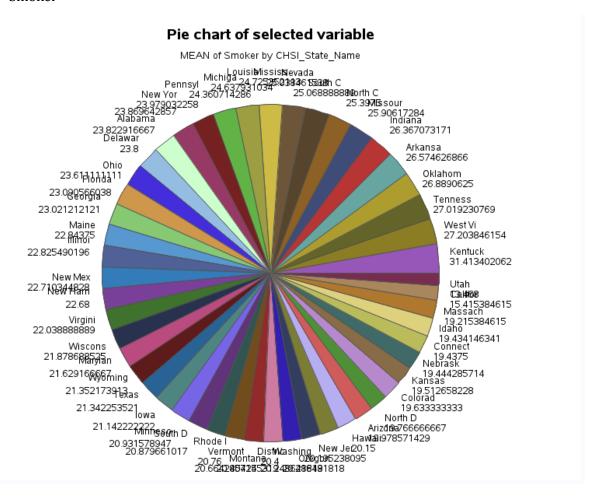
According to produced pie chart on mean obesity data for all state in USA, the average of obesity is highest in Mississippi and lowest in Colorado.

4. High blood pressure



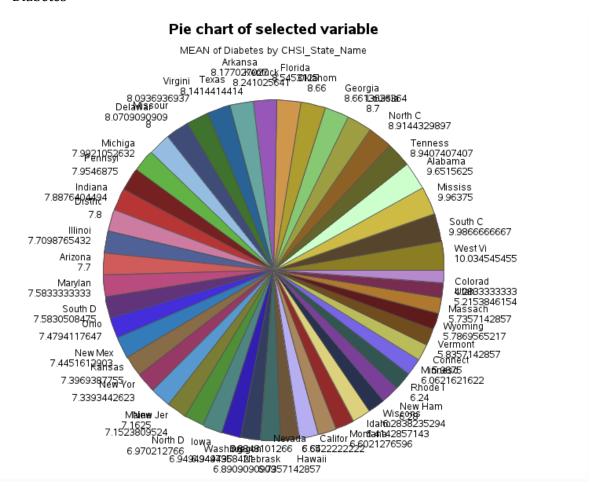
According to produced pie chart on high blood pressure data for all state in USA, the mean of blood pressure(individuals) is highest in west Virginia and lowest average is in Colorado.

5. Smoker



According to produced pie chart on smoker data for all state in USA, the highest mean of the number of adult smoker is in Kentucky and lowest mean of the number of smoker is in Utah.

6. Diabetes

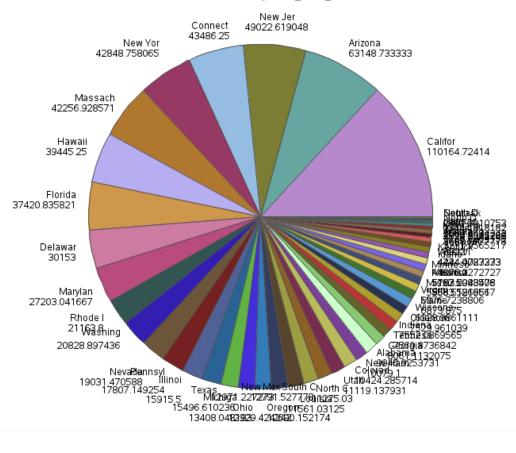


According to produced pie chart on diabetes data for all state in USA, it is observed that the highest mean contains by West Virginia and lowest mean hold by the Colorado.

7. Uninsured

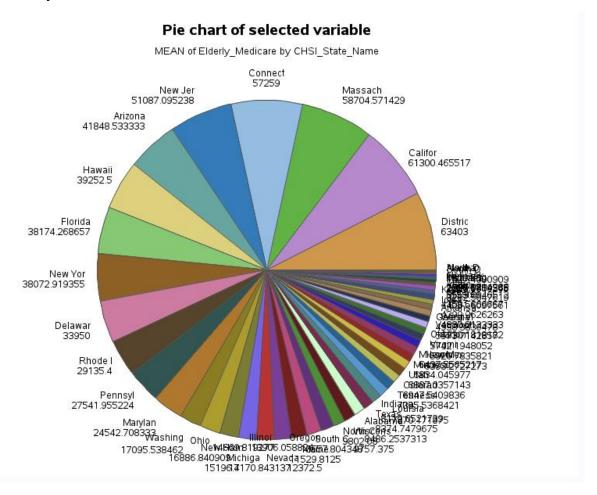
Pie chart of selected variable

MEAN of Uninsured by CHSI_State_Name



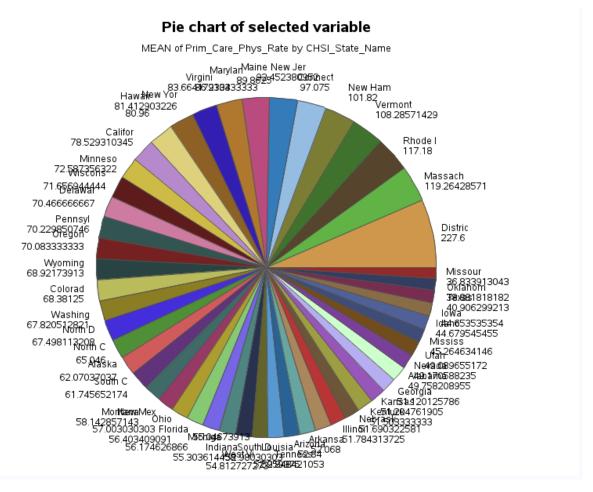
According to produced pie chart on mean of uninsured data for all state in USA, California has highest average of Uninsured while Arizona has the second highest mean. The lowest mean is in some other states which values are not too much remarkable compare with highest mean.

8. Elderly Medicine



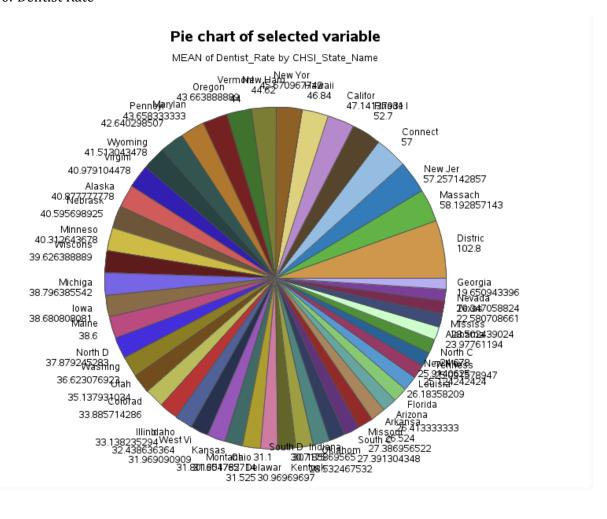
According to produced pie chart on average of elderly medicare data for all state in USA, the highest mean of elderly medicare is in District and second highest mean is in California. Lowest mean is hold by several states and it is negligible compare with highest mean.

9. Primary care physicians rate



According to produced pie chart on primary care physicians rate data for all state in USA, the District has the highest primary care physicians rate while Missouri has the lowest primary care physician rate. Highest mean is too large compare with other any state.

10. Dentist Rate



According to produced pie chart on dentist rate data for all state in USA, the District has highest average of dentist rate and it is significantly greater than the second highest average of Massach. The lowest average of dentist rate is containing by Georgia.

Question No 3: Calculate the first quartile (Q1), the median, and the third quartile (Q3) of USA for each of the ten variables. Use a single table to present the three quartiles.

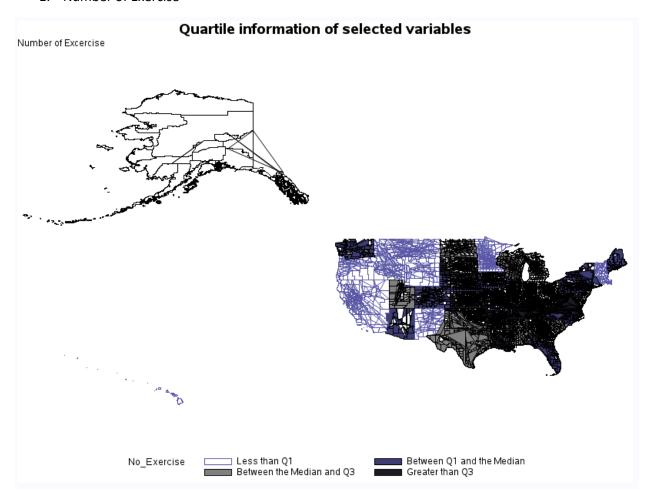
Obs	Variable	Q1	Median	Q3
1	No_Exercise	21.900000	26.000000	30.800000
2	Few_Fruit_Veg	75.500000	79.000000	82.400000
3	Obesity	21.100000	24.300000	27.200000
4	High_Blood_Pres	22.800000	26.200000	29.900000
5	Smoker	19.400000	23.000000	26.700000
6	Diabetes	5.900000	7.500000	9.500000
7	Uninsured	1551.000000	3430.000000	8118.000000
8	Elderly_Medicare	1649.000000	3495.000000	8138.000000
9	Prim_Care_Phys_Rate	30.500000	50.600000	74.700000
10	Dentist_Rate	18.700000	30.000000	43.300000

Question No 4: 90% Confidence interval of ten variables from South Dakota with adding given label and table title.

1	The MEANS Procedure				
Variable	Label	Lower 90% CL for Mean	Upper 90% CL for Mean		
No_Exercise	NumExercise	25.5207940	27.7447232		
Few_Fruit_Veg	FewFruitVeg	78.7323193	80.2533949		
Obesity	_	23.8871733	25.8473094		
High_Blood_Pres		25.9700595	28.2110726		
Smoker		19.4701554	22.2891666		
Diabetes		7.0369971	8.1291048		
Uninsured		928.7210785	1759.64		
Elderly_Medicare		1100.69	2154.13		
Prim_Care_Phys_Rate		43.3458378	62.6147683		
Dentist_Rate		26.8046514	35.1347425		

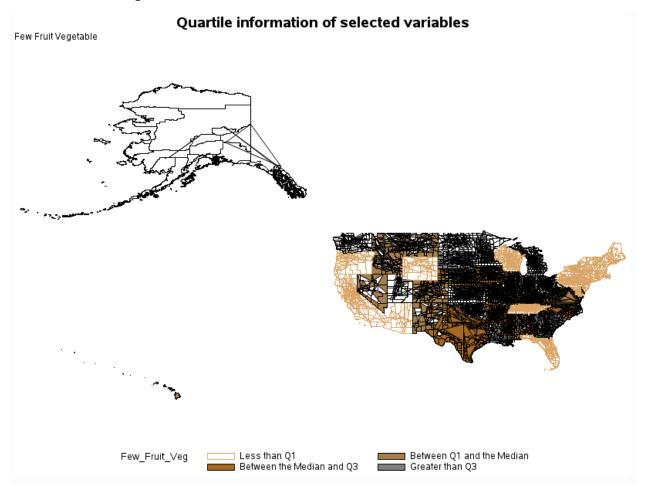
Question No 5: Map of USA with given instructed state wise color light to dark. I use different colors for different variables. Data brought from question no 3.

1. Number of Exercise



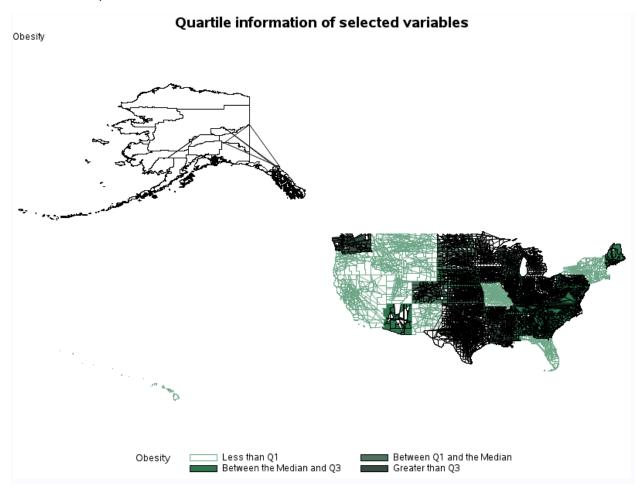
The quartile information on number of exercise it can be said that the lower quartile is in Alaska area, between first quartile and the median is in available in west side of USA, between the median and third quartile value is in south side of middle USA and the greater than the third quartile is in east side of USA and this area is larger than the others.

2. Few Fruit Vegetable



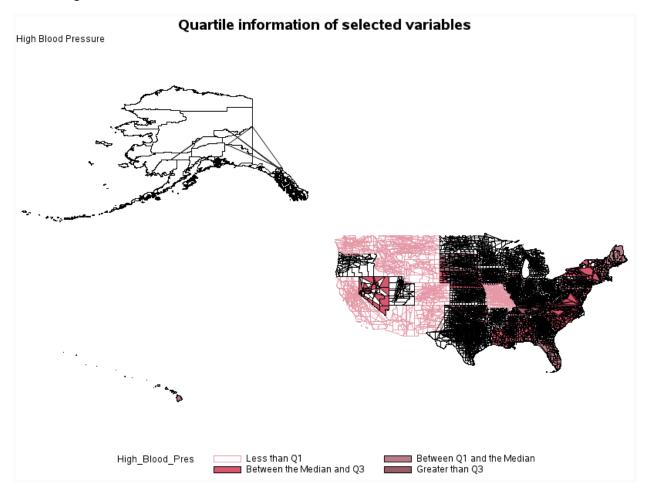
According to quartile information on few fruit vegetable, less than quartile data is in Alaska. The lower quartile to median value is in the east side and west side of USA. The Texas area and upper side of this state have the value between the median and third quartile. The value greater than third quartile value is in the east part of the country except the extreme east north part.

3. Obesity



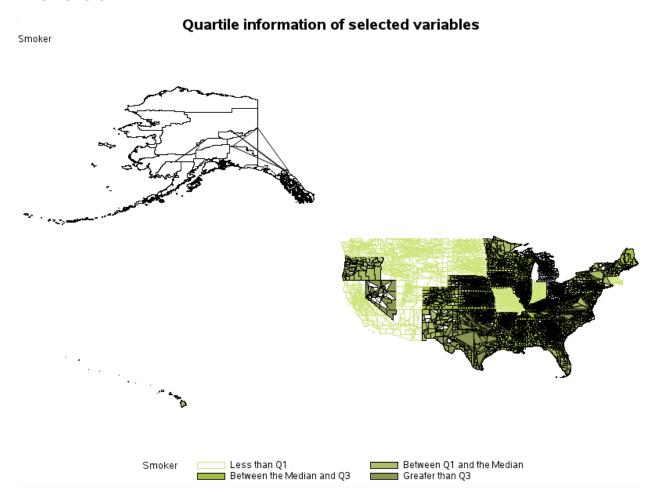
According to data produce by SAS, less than quartile values prevail in Alaska. Second quartile value is in west part of USA except Washington. Third quartile value is in scattered and a few states hold this value. Most of the eastern side of USA except few exception contain the fourth quartile value.

4. High Blood Pressure



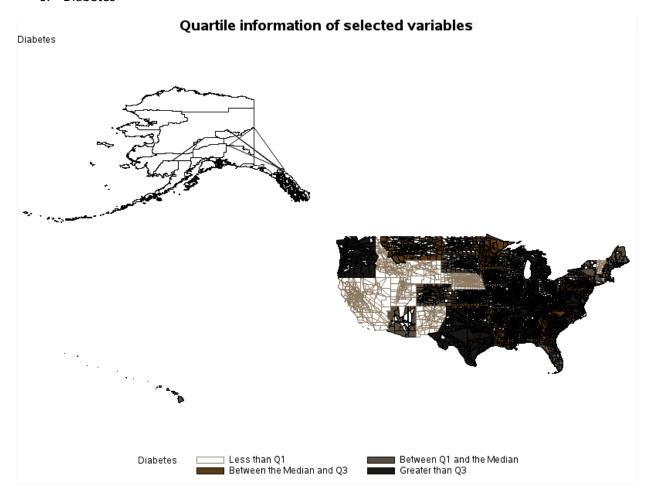
According to the quartile information, Lower quartile value is in Alaska. West part of USA is middle of the first quartile and the median except three states. Between the median and third quartile hold by only a few areas. Eastern part of the USA without some area hold the value greater than third quartile.

5. Smoker



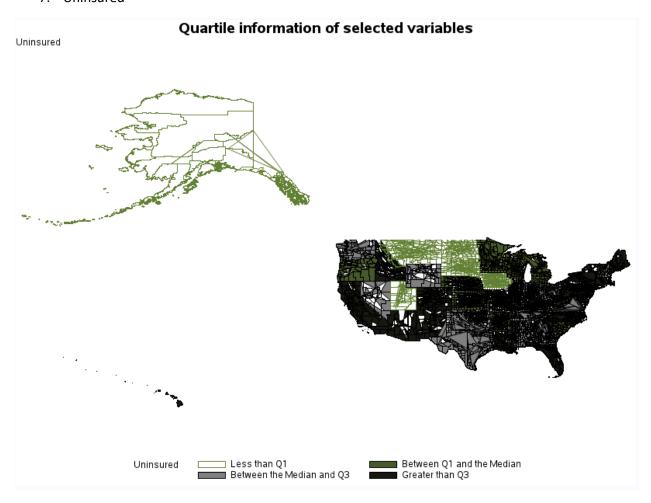
The information from all state related to smoker, the first quartile value of smoker in Alaska area. Between first quartile and the median value of smoker is in west part of USA except Oregon and Nevada. The value from the median to third quartile is the area of Oregon, Nevada and Texas. Rest of the area mainly in eastern part of USA and other some place is more than the third quartile.

6. Diabetes



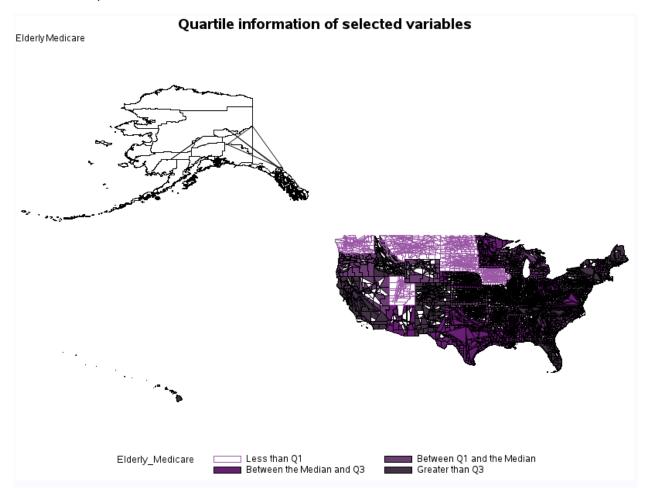
The data provided by diabetes for all state of USA, we can say that the less than first quartile data covered the Alaska. The information between first quartile and the median mainly covered area of south western corner area of USA and the median to third quartile data covered eastern part of USA while greater than third quartile data contain only Texas and Washington area with some other area.

7. Uninsured



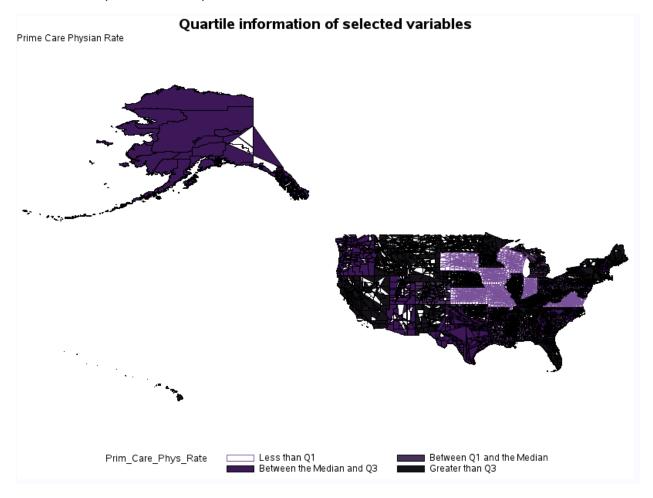
Less than the first quartile data about uninsured comes from Alaska. Greater than third quartile data comes from west and southern part with some middle area of USA. Middle of northern area of USA data mainly contain data from first quartile to the median.

8. Elderly Medicare



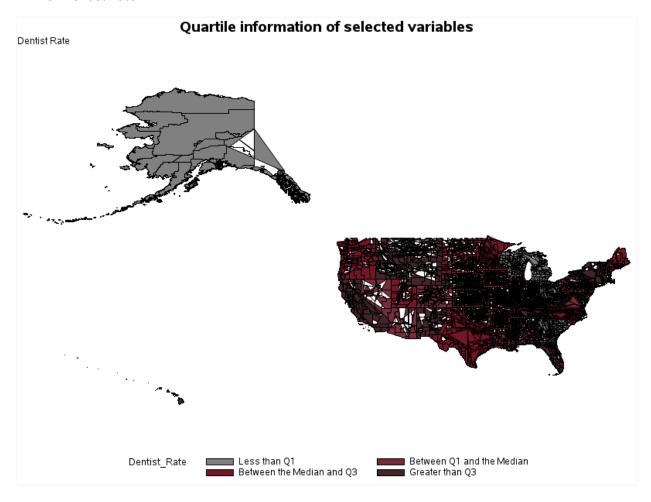
According to given data set, less than the first quartile data comes from Alaska area. Between first quartile and the median information comes from northern part of the USA while the between the median and third quartile comes from southern part and some other part of USA. Greater than third quartile data cover the eastern part of the USA.

9. Primary/Prime Care Physician Rate



The information on prime/primary care physician rate, some states from north east of USA is hold the lower quartile value. Between the median and third quartile values are in Alaska and some other places. Greater than third quartile data comes from south west part and mid northern area of USA.

10. Dentist Rate



From data given on dentist rate, the lower values are in Alaska. The higher than third quartile value is in only a few areas of west side of USA and east side of USA. Between first quartile and the median data is in Texas area and Washington area and nearby area. The middle values from between the median and third quartile is not too much significant as it has only few areas.

Summary: I used given map data set and according to question I used state data to make combination. The given data set contains county data, but I used state as per given instruction. So, the map I produce showed data with more perfection. Color and pattern are done according to given instruction.