SAT scores

Where you live

SAT Scores

Standardized test that most University required.

What impact SAT scores, is it related to where you live?

DATA

2019 California SAT Scores:

26 Columns: 9 needed.

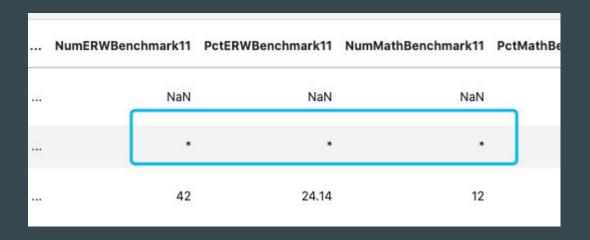
2580 Records

CA School Districts Boundaries Shapes

Authoritative geographic data source for all school district area boundaries in California for the 2018-19 academic year

Connect By:

School District Code:CDCode



	CDCode	RType	Name	Enroll12
1981	900000.0	С	NaN	2226.0
1982	1900000.0	С	NaN	114618.0
1983	2000000.0	С	NaN	2352.0
1984	5700000.0	С	NaN	2299.0
1985	1500000.0	С	NaN	14229.0

	count	mean	std	min	25%	50%	75%	max
RType								
С	58.0	8442.241379	17344.164490	0.0	525.5	2325.5	7477.25	114618.0
D	539.0	907.730983	2165.403522	0.0	104.5	325.0	1063.50	41873.0
s	1981.0	232.673397	216.578502	0.0	53.0	141.0	398.00	1135.0
Х	1.0	489650.000000	NaN	489650.0	489650.0	489650.0	489650.00	489650.0

Type	Dataset	Description
float	sat_2019_ca	School District Code in CA, each district has a unique code
object	sat_2019_ca	School District Name
float	sat_2019_ca	Number of students enrolled in 12th grade in the county
float	sat_2019_ca	Number of students taken SAT test in the county
int	sat_2019_ca	Number of students who has taken SAT and exceed the writting benchmark
float	sat_2019_ca	Percentge of student who exceed writting benchmark
int	sat_2019_ca	Number of students who has taken SAT and exceed the math benchmark
float	sat_2019_ca	Percentge of student who exceed math benchmark
	float object float float int float int	float sat_2019_ca object sat_2019_ca float sat_2019_ca float sat_2019_ca int sat_2019_ca float sat_2019_ca int sat_2019_ca int sat_2019_ca

Exploratory Data Analysis

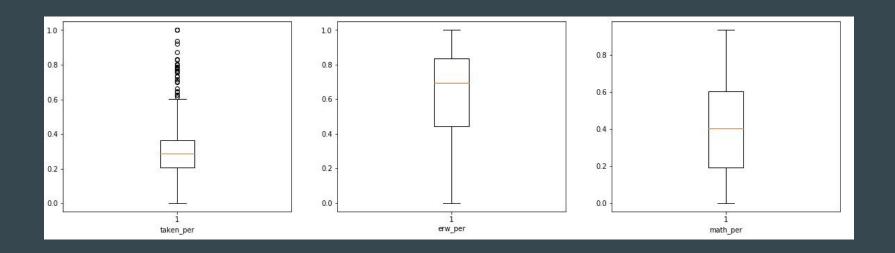
Add another feature, percentage of student who taken SAT in 12th grade.

Exploratory Data Analysis

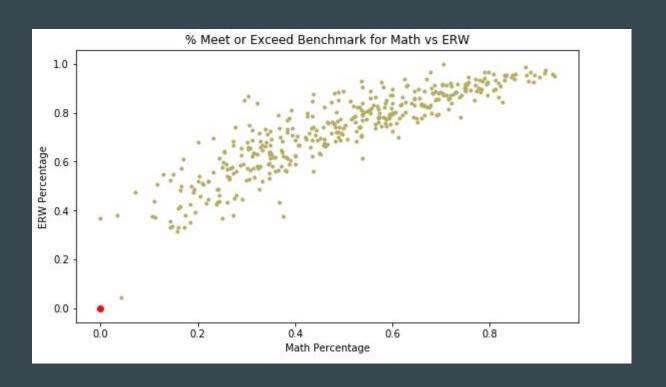
	count	mean	std	min	25%	50%	75%	max
code	501.0	2.974097e+06	1.548312e+06	110017.000000	1.864162e+06	3.066647e+06	4.168924e+06	5872769.00
num_student	501.0	9.720120e+02	2.232984e+03	2.000000	1.400000e+02	3.830000e+02	1.136000e+03	41873.00
num_taken	501.0	3.401277e+02	1.011470e+03	1.000000	2.700000e+01	9.200000e+01	3.560000e+02	19988.00
erw_num	501.0	2.316387e+02	5.661537e+02	0.000000	1.800000e+01	6.600000e+01	2.780000e+02	10448.00
erw_per	501.0	5.874543e+01	3.228995e+01	0.000000	4.450000e+01	6.955000e+01	8.340000e+01	100.00
math_num	501.0	1.623034e+02	3.591206e+02	0.000000	9.000000e+00	4.400000e+01	1.950000e+02	5981.00
math_per	501.0	3.983868e+01	2.682076e+01	0.000000	1.920000e+01	4.011000e+01	6.008000e+01	93.33
taken_per	501.0	2.992615e-01	1.704152e-01	0.002611	2.067039e-01	2.871012e-01	3.652531e-01	1.00

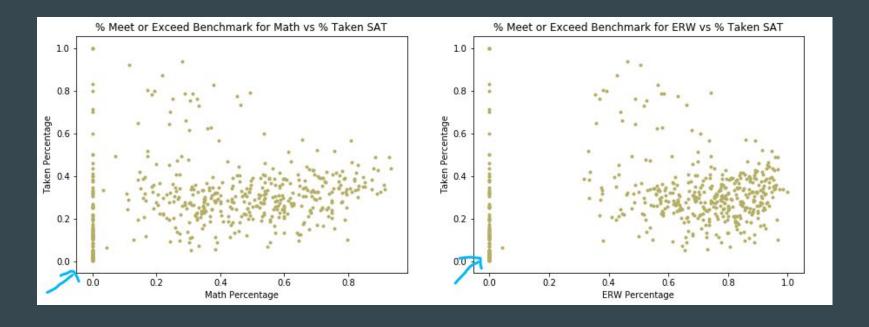
Exploratory Data Analysis

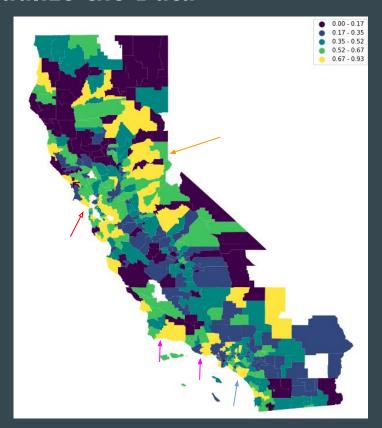
	code	name	um_student	num_taken	erw_num	erw_per	math_num	math_per	taken_per
296	1964733.0	Los Angeles Unified	41873.0	19988.0	10448	52.27	5981	29.92	0.477348

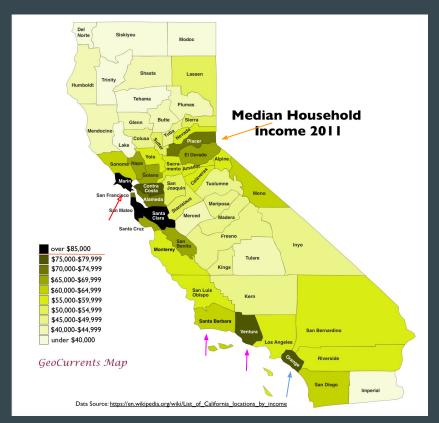


	num_student	num_taken	taken_per
221	2.0	2.0	1.000000
414	3.0	3.0	1.000000
64	3.0	3.0	1.000000
233	5.0	4.0	0.800000
13	6.0	5.0	0.833333
452	7.0	5.0	0.714286
428	10.0	7.0	0.700000
115	1858.0	1195.0	0.643165
112	2261.0	1870.0	0.827068
408	2434.0	1788.0	0.734593
82	2481.0	1992.0	0.802902
357	2520.0	1770.0	0.702381
185	4063.0	2690.0	0.662072
205	4128.0	3149.0	0.762839
400	5929.0	3705.0	0.624895









Conclusions

Students who lived high income areas tend to have higher SAT scores. But more data need to prove.