Overview

Dataset statistics

Number of variables	19
Number of observations	506
Missing cells	2530
Missing cells (%)	26.3%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	75.2 KiB
Average record size in memory	152.3 B

Variable types

Numeric	13
Categorical	1
Unsupported	5

Alerts

CRIM is highly correlated with ZN and 8 other fields (ZN, INDUS, NOX, AGE, DIS, RAD, TAX, LSTAT, MEDV)	High correlation
ZN is highly correlated with CRIM and 4 other fields (CRIM, INDUS, NOX, AGE, DIS)	High correlation
INDUS is highly correlated with CRIM and 7 other fields (CRIM, ZN, NOX, AGE, DIS, TAX, LSTAT, MEDV)	High correlation
NOX is highly correlated with CRIM and 8 other fields (CRIM, ZN, INDUS, AGE, DIS, RAD, TAX, LSTAT, MEDV)	High correlation
RM is highly correlated with LSTAT and 1 other fields (LSTAT, MEDV)	High correlation
AGE is highly correlated with CRIM and 7 other fields (CRIM, ZN, INDUS, NOX, DIS, TAX, LSTAT, MEDV)	High correlation
DIS is highly correlated with CRIM and 6 other fields (CRIM, ZN, INDUS, NOX, AGE, TAX, LSTAT)	High correlation
RAD is highly correlated with CRIM and 2 other fields (CRIM, NOX, TAX)	High correlation
TAX is highly correlated with CRIM and 7 other fields (CRIM, INDUS, NOX, AGE, DIS, RAD, LSTAT, MEDV)	High correlation
PTRATIO is highly correlated with MEDV	High correlation
LSTAT is highly correlated with CRIM and 7 other fields (CRIM, INDUS, NOX, RM, AGE, DIS, TAX, MEDV)	High correlation
MEDV is highly correlated with CRIM and 7 other fields (CRIM, INDUS, NOX, RM, AGE, TAX, PTRATIO, LSTAT)	High correlation
CRIM is highly correlated with RAD and 1 other fields (RAD, TAX)	High correlation
ZN is highly correlated with INDUS and 3 other fields (INDUS, NOX, AGE, DIS)	High correlation
INDUS is highly correlated with ZN and 6 other fields (ZN, NOX, AGE, DIS, RAD, TAX, LSTAT)	High correlation
NOX is highly correlated with ZN and 6 other fields (ZN, INDUS, AGE, DIS, RAD, TAX, LSTAT)	High correlation
RM is highly correlated with LSTAT and 1 other fields (LSTAT, MEDV)	High correlation
AGE is highly correlated with ZN and 5 other fields (ZN, INDUS, NOX, DIS, TAX, LSTAT)	High correlation
DIS is highly correlated with ZN and 4 other fields (ZN, INDUS, NOX, AGE, TAX)	High correlation
RAD is highly correlated with CRIM and 3 other fields (CRIM, INDUS, NOX, TAX)	High correlation
TAX is highly correlated with CRIM and 6 other fields (CRIM, INDUS, NOX, AGE, DIS, RAD, LSTAT)	High correlation
PTRATIO is highly correlated with MEDV	High correlation
LSTAT is highly correlated with INDUS and 5 other fields (INDUS, NOX, RM, AGE, TAX, MEDV)	High correlation
MEDV is highly correlated with RM and 2 other fields (RM, PTRATIO, LSTAT)	High correlation
CRIM is highly correlated with INDUS and 4 other fields (INDUS, NOX, DIS, RAD, TAX)	High correlation
ZN is highly correlated with INDUS and 1 other fields (INDUS, NOX)	High correlation
INDUS is highly correlated with CRIM and 3 other fields (CRIM, ZN, NOX, DIS)	High correlation
NOX is highly correlated with CRIM and 4 other fields (CRIM, ZN, INDUS, AGE, DIS)	High correlation
AGE is highly correlated with NOX and 1 other fields (NOX, DIS)	High correlation
DIS is highly correlated with CRIM and 3 other fields (CRIM, INDUS, NOX, AGE)	High correlation
RAD is highly correlated with CRIM and 1 other fields (CRIM, TAX)	High correlation
TAX is highly correlated with CRIM and 1 other fields (CRIM, RAD)	High correlation
LSTAT is highly correlated with MEDV	High correlation
MEDV is highly correlated with LSTAT	High correlation
CRIM is highly correlated with INDUS and 2 other fields (INDUS, NOX, B)	High correlation
ZN is highly correlated with INDUS and 7 other fields (INDUS, NOX, AGE, DIS, RAD, TAX, PTRATIO, MEDV)	High correlation
INDUS is highly correlated with CRIM and 8 other fields (CRIM, ZN, NOX, AGE, DIS, RAD, TAX, PTRATIO, MEDV)	High correlation
NOX is highly correlated with CRIM and 9 other fields (CRIM, ZN, INDUS, AGE, DIS, RAD, TAX, PTRATIO, LSTAT, MEDV)	High correlation
RM is highly correlated with PTRATIO and 3 other fields (PTRATIO, B, LSTAT, MEDV)	High correlation
AGE is highly correlated with ZN and 7 other fields (ZN, INDUS, NOX, DIS, RAD, PTRATIO, LSTAT, MEDV)	High correlation
DIS is highly correlated with ZN and 8 other fields (ZN, INDUS, NOX, AGE, RAD, TAX, PTRATIO, LSTAT, MEDV)	High correlation
RAD is highly correlated with ZN and 8 other fields (ZN, INDUS, NOX, AGE, DIS, TAX, PTRATIO, LSTAT, MEDV)	High correlation
TAX is highly correlated with ZN and 5 other fields (ZN, INDUS, NOX, DIS, RAD, PTRATIO)	High correlation
PTRATIO is highly correlated with ZN and 9 other fields (ZN, INDUS, NOX, RM, AGE, DIS, RAD, TAX, LSTAT, MEDV)	High correlation
B is highly correlated with CRIM and 1 other fields (CRIM, RM)	High correlation
LSTAT is highly correlated with NOX and 6 other fields (NOX, RM, AGE, DIS, RAD, PTRATIO, MEDV)	High correlation
MEDV is highly correlated with ZN and 8 other fields (ZN, INDUS, NOX, RM, AGE, DIS, RAD, PTRATIO, LSTAT)	High correlation
Unnamed: 14 has 506 (100.0%) missing values	Missing
Unnamed: 15 has 506 (100.0%) missing values	Missing

`Unnamed: 16` has 506 (100.0%) missing values	Missing
`Unnamed: 17` has 506 (100.0%) missing values	Missing
`Unnamed: 18` has 506 (100.0%) missing values	Missing
`Unnamed: 14` is an unsupported type, check if it needs cleaning or further analysis	Unsupported
`Unnamed: 15` is an unsupported type, check if it needs cleaning or further analysis	Unsupported
`Unnamed: 16` is an unsupported type, check if it needs cleaning or further analysis	Unsupported
`Unnamed: 17` is an unsupported type, check if it needs cleaning or further analysis	Unsupported
`Unnamed: 18` is an unsupported type, check if it needs cleaning or further analysis	Unsupported
`ZN` has 372 (73.5%) zeros	Zeros

Reproduction

Analysis started	2022-01-15 18:18:14.163252
Analysis finished	2022-01-15 18:18:55.551691
Duration	41.39 seconds
Software version	pandas-profiling v3.1.0 (https://github.com/pandas-profiling/pandas-profiling)
Download configuration	config.json (data:text/plain;charset=utf-8,%7B%22title%22%3A%20%22EDA%20on%20House%20Price%20Prediction%22%2C%20%22dataset%22%3A%20%7B%22description%22%3A'

Variables

CRIM

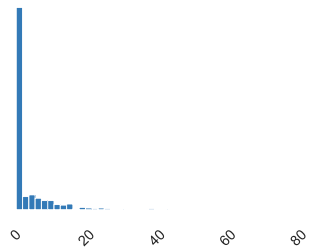
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 9 fields: ZN, INDUS, NOX, AGE, DIS, RAD, TAX, LSTAT, MEDV)
HIGH CORRELATION (This variable has a high correlation with 2 fields: RAD, TAX)
HIGH CORRELATION (This variable has a high correlation with 5 fields: INDUS, NOX, DIS, RAD, TAX)
HIGH CORRELATION (This variable has a high correlation with 3 fields: INDUS, NOX, B)

Distinct	504
Distinct (%)	99.6%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	3.613523557

Minimum	0.00632
Maximum	88.9762
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



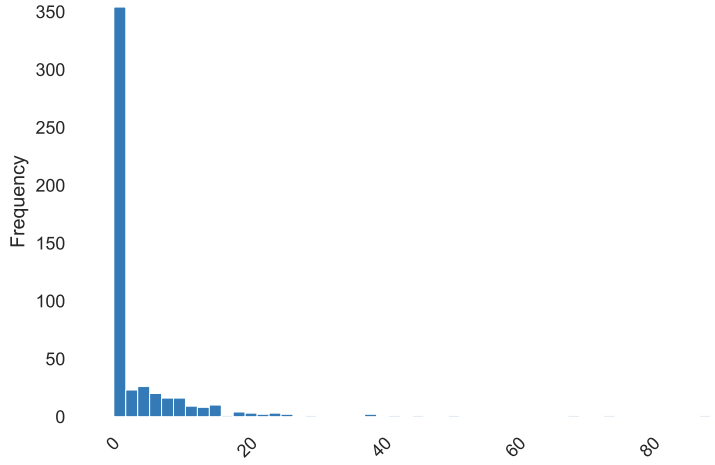
Quantile statistics

Minimum	0.00632
5-th percentile	0.02791
Q1	0.082045
median	0.25651
Q3	3.6770825
95-th percentile	15.78915
Maximum	88.9762
Range	88.96988
Interquartile range (IQR)	3.5950375

Descriptive statistics

Standard deviation	8.601545105
Coefficient of variation (CV)	2.380376098
Kurtosis	37.13050913
Mean	3.613523557

Median Absolute Deviation (MAD)	0.22145
Skewness	5.223148798
Sum	1828.44292
Variance	73.9865782
Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
0.01501	2	0.4%
14.3337	2	0.4%
0.03466	1	0.2%
0.03113	1	0.2%
0.03049	1	0.2%
0.02543	1	0.2%
0.02498	1	0.2%
0.01301	1	0.2%
0.06151	1	0.2%
0.05497	1	0.2%
Other values (494)	494	97.6%

Value	Count	Frequency (%)
0.00632	1	0.2%
0.00906	1	0.2%
0.01096	1	0.2%
0.01301	1	0.2%
0.01311	1	0.2%
0.0136	1	0.2%
0.01381	1	0.2%
0.01432	1	0.2%
0.01439	1	0.2%
0.01501	2	0.4%

Value	Count	Frequency (%)
88.9762	1	0.2%
73.5341	1	0.2%
67.9208	1	0.2%
51.1358	1	0.2%
45.7461	1	0.2%
41.5292	1	0.2%
38.3518	1	0.2%
37.6619	1	0.2%
28.6558	1	0.2%
25.9406	1	0.2%

ZN

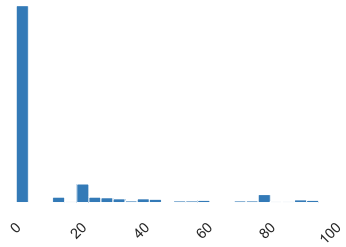
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 5 fields: CRIM, INDUS, NOX, AGE, DIS)
HIGH CORRELATION (This variable has a high correlation with 4 fields: INDUS, NOX, AGE, DIS)
HIGH CORRELATION (This variable has a high correlation with 2 fields: INDUS, NOX)
HIGH CORRELATION (This variable has a high correlation with 8 fields: INDUS, NOX, AGE, DIS, RAD, TAX, PTRATIO, MEDV)
ZEROS

Distinct	26
Distinct (%)	5.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	11.36363636

Minimum	0
Maximum	100
Zeros	372
Zeros (%)	73.5%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



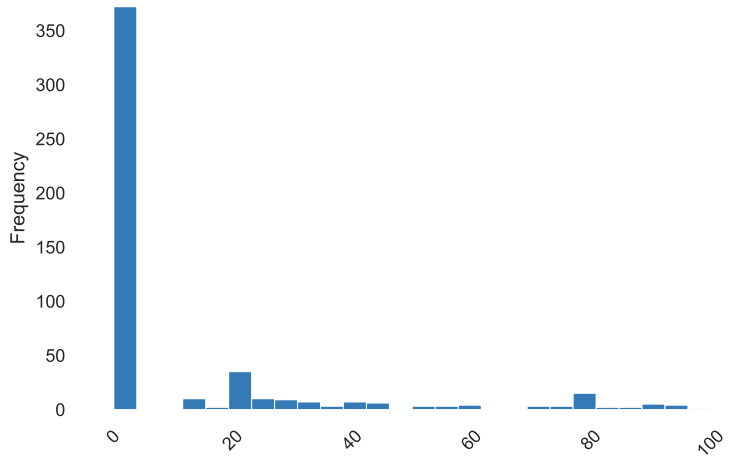
Quantile statistics

Minimum	0
5-th percentile	0
Q1	0
median	0
Q3	12.5
95-th percentile	80
Maximum	100
Range	100
Interquartile range (IQR)	12.5

Descriptive statistics

Standard deviation	23.32245299
Coefficient of variation (CV)	2.052375864
Kurtosis	4.031510084
Mean	11.36363636
Median Absolute Deviation (MAD)	0
Skewness	2.225666323
Sum	5750

Variance	543.9368137
Monotonicity	Not monotonic



Histogram with fixed size bins (bins=26)

Value	Count	Frequency (%)
0	372	73.5%
20	21	4.2%
80	15	3.0%
22	10	2.0%
12.5	10	2.0%
25	10	2.0%
40	7	1.4%
45	6	1.2%
30	6	1.2%
90	5	1.0%
Other values (16)	44	8.7%

Value	Count	Frequency (%)
0	372	73.5%
12.5	10	2.0%
17.5	1	0.2%
18	1	0.2%
20	21	4.2%
21	4	0.8%
22	10	2.0%
25	10	2.0%
28	3	0.6%
30	6	1.2%

Value	Count	Frequency (%)
100	1	0.2%
95	4	0.8%
90	5	1.0%
85	2	0.4%
82.5	2	0.4%
80	15	3.0%
75	3	0.6%
70	3	0.6%
60	4	0.8%
55	3	0.6%

INDUS

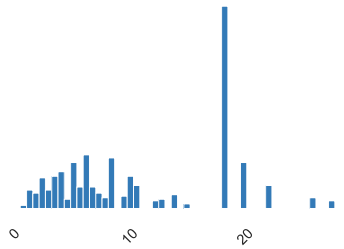
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 8 fields: CRIM, ZN, NOX, AGE, DIS, TAX, LSTAT, MEDV)
HIGH CORRELATION (This variable has a high correlation with 7 fields: ZN, NOX, AGE, DIS, RAD, TAX, LSTAT)
HIGH CORRELATION (This variable has a high correlation with 4 fields: CRIM, ZN, NOX, DIS)
HIGH CORRELATION (This variable has a high correlation with 9 fields: CRIM, ZN, NOX, AGE, DIS, RAD, TAX, PTRATIO, MEDV)

Distinct	76
Distinct (%)	15.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	11.13677866

Minimum	0.46
Maximum	27.74
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



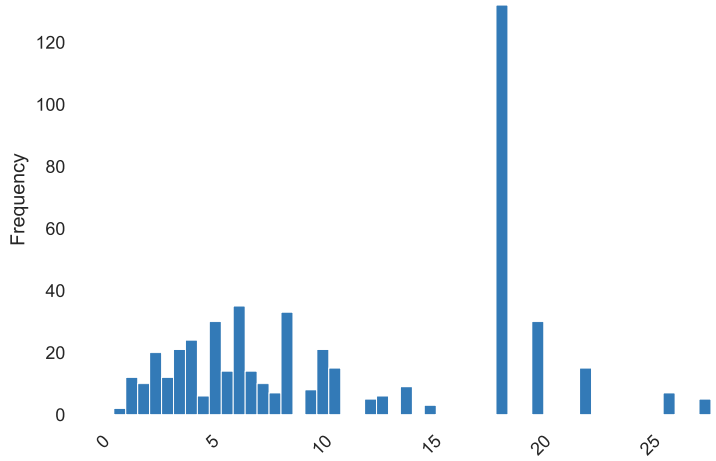
Quantile statistics

Minimum	0.46
5-th percentile	2.18
Q1	5.19
median	9.69
Q3	18.1
95-th percentile	21.89
Maximum	27.74
Range	27.28
Interquartile range (IQR)	12.91

Descriptive statistics

Standard deviation	6.860352941
Coefficient of variation (CV)	0.6160087358
Kurtosis	-1.233539601
Mean	11.13677866
Median Absolute Deviation (MAD)	6.32
Skewness	0.2950215679
Sum	5635.21
Variance	47.06444247

Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
18.1	132	26.1%
19.58	30	5.9%
8.14	22	4.3%
6.2	18	3.6%
21.89	15	3.0%
3.97	12	2.4%
9.9	12	2.4%
8.56	11	2.2%
10.59	11	2.2%
5.86	10	2.0%
Other values (66)	233	46.0%

Value	Count	Frequency (%)
0.46	1	0.2%
0.74	1	0.2%
1.21	1	0.2%
1.22	1	0.2%
1.25	2	0.4%
1.32	1	0.2%
1.38	1	0.2%
1.47	2	0.4%
1.52	4	0.8%
1.69	2	0.4%

Value	Count	Frequency (%)
27.74	5	1.0%
25.65	7	1.4%
21.89	15	3.0%
19.58	30	5.9%
18.1	132	26.1%
15.04	3	0.6%
13.92	5	1.0%
13.89	4	0.8%
12.83	6	1.2%
11.93	5	1.0%

CHAS
Categorical

Distinct	2
Distinct (%)	0.4%
Missing	0
Missing (%)	0.0%
Memory size	28.8 KiB

Length

Max length	1
Median length	1
Mean length	1
Min length	1

Characters and Unicode

Total characters	0	
Distinct characters	0	
Distinct categories	0 (https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	?
Distinct scripts	0 (https://en.wikipedia.org/wiki/Script_(Unicode)#List_of_scripts_in_Unicode)	?
Distinct blocks	0 (https://en.wikipedia.org/wiki/Unicode_block)	?

The Unicode Standard assigns character properties to each code point, which can be used to analyse textual variables.

Unique

Unique	0	?
Unique (%)	0.0%	

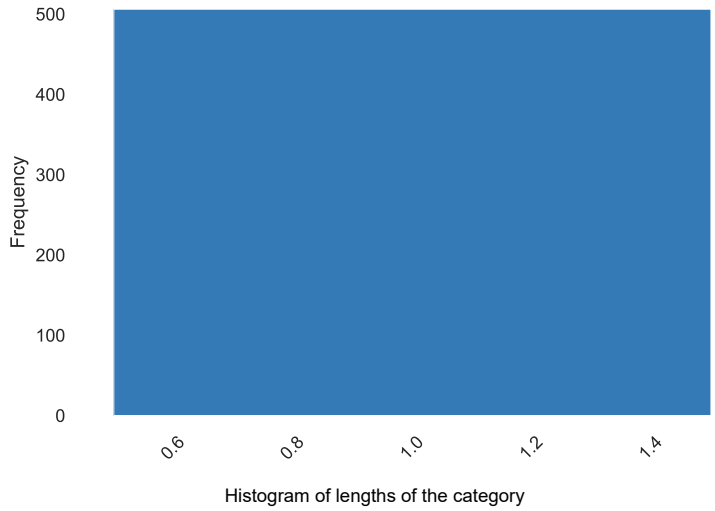
Sample

1st row	0
2nd row	0
3rd row	0
4th row	0
5th row	0

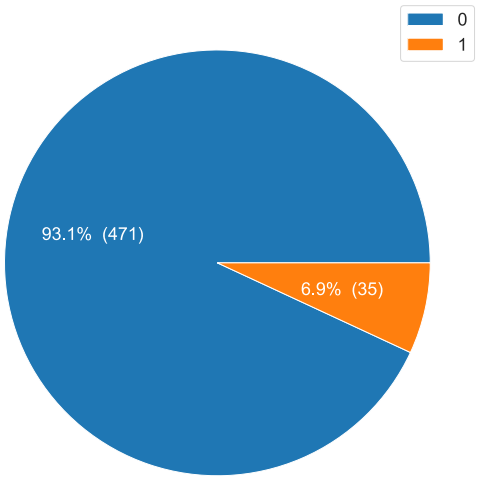
Common Values

Value	Count	Frequency (%)
0	471	93.1%
1	35	6.9%

Length



Pie chart



Value	Count	Frequency (%)
0	471	93.1%
1	35	6.9%

Most occurring characters

Value	Count	Frequency (%)

No values found.

Most occurring categories

Value	Count	Frequency (%)
No values found.		

Most frequent character per category

Most occurring scripts

Value	Count	Frequency (%)
No values found.		

Most frequent character per script

Most occurring blocks

Value	Count	Frequency (%)
No values found.		

Most frequent character per block

NOX

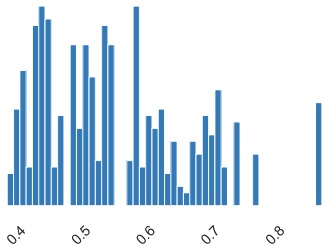
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 9 fields: CRIM, ZN, INDUS, AGE, DIS, RAD, TAX, LSTAT, MEDV)
HIGH CORRELATION (This variable has a high correlation with 7 fields: ZN, INDUS, AGE, DIS, RAD, TAX, LSTAT)
HIGH CORRELATION (This variable has a high correlation with 5 fields: CRIM, ZN, INDUS, AGE, DIS)
HIGH CORRELATION (This variable has a high correlation with 10 fields: CRIM, ZN, INDUS, AGE, DIS, RAD, TAX, PTRATIO, LSTAT, MEDV)

Distinct	81
Distinct (%)	16.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.5546950593

Minimum	0.385
Maximum	0.871
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



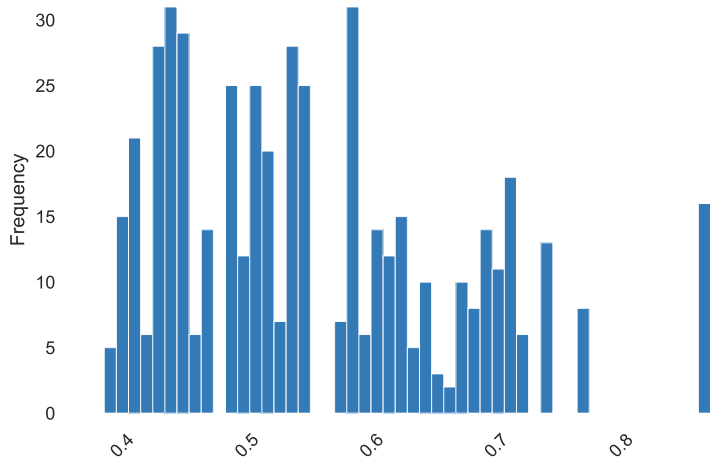
Quantile statistics

Minimum	0.385
5-th percentile	0.40925
Q1	0.449
median	0.538
Q3	0.624
95-th percentile	0.74
Maximum	0.871
Range	0.486
Interquartile range (IQR)	0.175

Descriptive statistics

Standard deviation	0.1158776757
Coefficient of variation (CV)	0.2089033853
Kurtosis	-0.06466713337
Mean	0.5546950593
Median Absolute Deviation (MAD)	0.0875
Skewness	0.7293079225
Sum	280.6757
Variance	0.01342763572

Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
0.538	23	4.5%
0.713	18	3.6%
0.437	17	3.4%
0.871	16	3.2%
0.624	15	3.0%
0.489	15	3.0%
0.693	14	2.8%
0.605	14	2.8%
0.74	13	2.6%
0.544	12	2.4%
Other values (71)	349	69.0%

Value	Count	Frequency (%)
0.385	1	0.2%
0.389	1	0.2%
0.392	2	0.4%
0.394	1	0.2%
0.398	2	0.4%
0.4	4	0.8%
0.401	3	0.6%
0.403	3	0.6%
0.404	3	0.6%
0.405	3	0.6%

Value	Count	Frequency (%)
0.871	16	3.2%
0.77	8	1.6%
0.74	13	2.6%
0.718	6	1.2%
0.713	18	3.6%
0.7	11	2.2%
0.693	14	2.8%
0.679	8	1.6%
0.671	7	1.4%
0.668	3	0.6%

RM

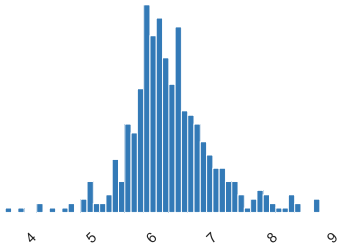
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 2 fields: LSTAT, MEDV)
HIGH CORRELATION (This variable has a high correlation with 2 fields: LSTAT, MEDV)
HIGH CORRELATION (This variable has a high correlation with 4 fields: PTRATIO, B, LSTAT, MEDV)

Distinct	446
Distinct (%)	88.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	6.284634387

Minimum	3.561
Maximum	8.78
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



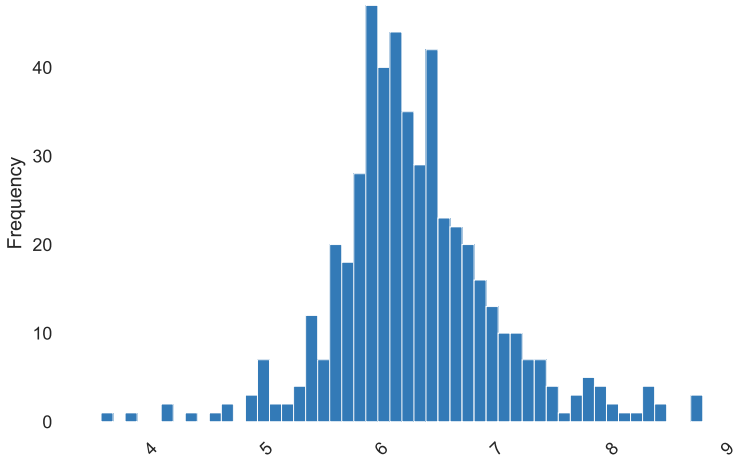
Quantile statistics

Minimum	3.561
5-th percentile	5.314
Q1	5.8855
median	6.2085
Q3	6.6235
95-th percentile	7.5875
Maximum	8.78
Range	5.219
Interquartile range (IQR)	0.738

Descriptive statistics

Standard deviation	0.7026171434
Coefficient of variation (CV)	0.1117992074
Kurtosis	1.891500366
Mean	6.284634387
Median Absolute Deviation (MAD)	0.3455
Skewness	0.4036121333
Sum	3180.025
Variance	0.4936708502

Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
5.713	3	0.6%
6.167	3	0.6%
6.127	3	0.6%
6.229	3	0.6%
6.405	3	0.6%
6.417	3	0.6%
6.782	2	0.4%
6.951	2	0.4%
6.63	2	0.4%
6.312	2	0.4%
Other values (436)	480	94.9%

Value	Count	Frequency (%)
3.561	1	0.2%
3.863	1	0.2%
4.138	2	0.4%
4.368	1	0.2%
4.519	1	0.2%
4.628	1	0.2%
4.652	1	0.2%
4.88	1	0.2%
4.903	1	0.2%
4.906	1	0.2%

Value	Count	Frequency (%)
8.78	1	0.2%
8.725	1	0.2%
8.704	1	0.2%
8.398	1	0.2%
8.375	1	0.2%
8.337	1	0.2%
8.297	1	0.2%
8.266	1	0.2%
8.259	1	0.2%
8.247	1	0.2%

AGE

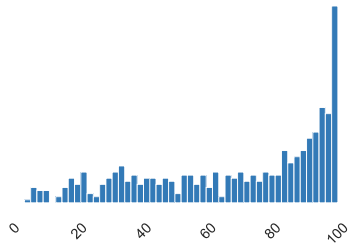
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 8 fields: CRIM, ZN, INDUS, NOX, DIS, TAX, LSTAT, MEDV)
HIGH CORRELATION (This variable has a high correlation with 6 fields: ZN, INDUS, NOX, DIS, TAX, LSTAT)
HIGH CORRELATION (This variable has a high correlation with 2 fields: NOX, DIS)
HIGH CORRELATION (This variable has a high correlation with 8 fields: ZN, INDUS, NOX, DIS, RAD, PTRATIO, LSTAT, MEDV)

Distinct	356
Distinct (%)	70.4%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	68.57490119

Minimum	2.9
Maximum	100
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



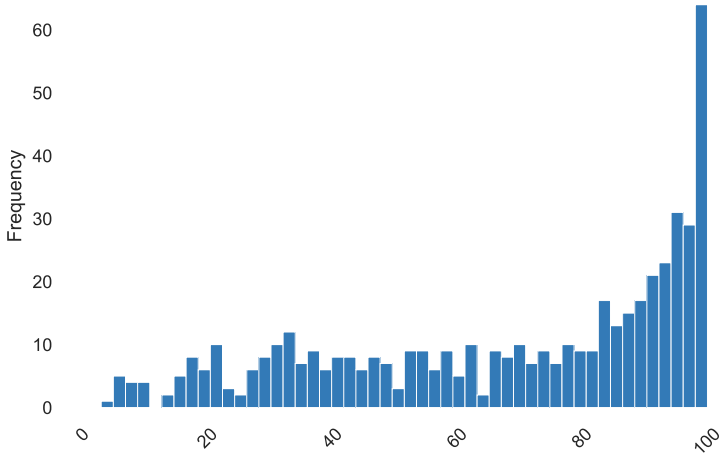
Quantile statistics

Minimum	2.9
5-th percentile	17.725
Q1	45.025
median	77.5
Q3	94.075
95-th percentile	100
Maximum	100
Range	97.1
Interquartile range (IQR)	49.05

Descriptive statistics

Standard deviation	28.14886141
Coefficient of variation (CV)	0.410483441
Kurtosis	-0.9677155942
Mean	68.57490119
Median Absolute Deviation (MAD)	19.55
Skewness	-0.5989626399
Sum	34698.9
Variance	792.3583985

Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
100	43	8.5%
95.4	4	0.8%
96	4	0.8%
98.2	4	0.8%
97.9	4	0.8%
98.8	4	0.8%
87.9	4	0.8%
95.6	3	0.6%
97	3	0.6%
21.4	3	0.6%
Other values (346)	430	85.0%

Value	Count	Frequency (%)
2.9	1	0.2%
6	1	0.2%
6.2	1	0.2%
6.5	1	0.2%
6.6	2	0.4%
6.8	1	0.2%
7.8	2	0.4%
8.4	1	0.2%
8.9	1	0.2%
9.8	1	0.2%

Value	Count	Frequency (%)
100	43	8.5%
99.3	1	0.2%
99.1	1	0.2%
98.9	3	0.6%
98.8	4	0.8%
98.7	1	0.2%
98.5	1	0.2%
98.4	2	0.4%
98.3	2	0.4%
98.2	4	0.8%

DIS

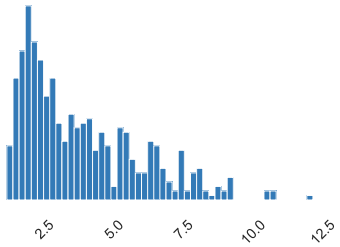
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 7 fields: CRIM, ZN, INDUS, NOX, AGE, TAX, LSTAT)
HIGH CORRELATION (This variable has a high correlation with 5 fields: ZN, INDUS, NOX, AGE, TAX)
HIGH CORRELATION (This variable has a high correlation with 4 fields: CRIM, INDUS, NOX, AGE)
HIGH CORRELATION (This variable has a high correlation with 9 fields: ZN, INDUS, NOX, AGE, RAD, TAX, PTRATIO, LSTAT, MEDV)

Distinct	412
Distinct (%)	81.4%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	3.795042688

Minimum	1.1296
Maximum	12.1265
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



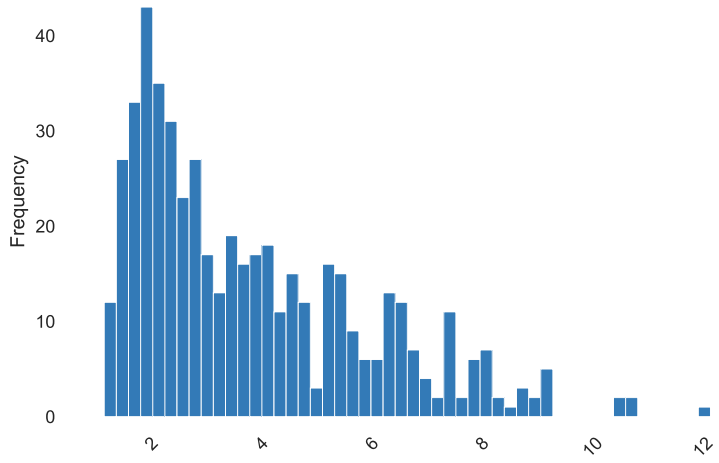
Quantile statistics

Minimum	1.1296
5-th percentile	1.461975
Q1	2.100175
median	3.20745
Q3	5.188425
95-th percentile	7.8278
Maximum	12.1265
Range	10.9969
Interquartile range (IQR)	3.08825

Descriptive statistics

Standard deviation	2.105710127
Coefficient of variation (CV)	0.5548580872
Kurtosis	0.4879411222
Mean	3.795042688
Median Absolute Deviation (MAD)	1.29115
Skewness	1.011780579
Sum	1920.2916
Variance	4.434015137

Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
3.4952	5	1.0%
5.7209	4	0.8%
5.2873	4	0.8%
6.8147	4	0.8%
5.4007	4	0.8%
6.3361	3	0.6%
3.9454	3	0.6%
6.498	3	0.6%
4.7211	3	0.6%
4.8122	3	0.6%
Other values (402)	470	92.9%

Value	Count	Frequency (%)
1.1296	1	0.2%
1.137	1	0.2%
1.1691	1	0.2%
1.1742	1	0.2%
1.1781	1	0.2%
1.2024	1	0.2%
1.2852	1	0.2%
1.3163	1	0.2%
1.3216	1	0.2%
1.3325	1	0.2%

Value	Count	Frequency (%)
12.1265	1	0.2%
10.7103	2	0.4%
10.5857	2	0.4%
9.2229	1	0.2%
9.2203	2	0.4%
9.1876	1	0.2%
9.0892	1	0.2%
8.9067	2	0.4%
8.7921	2	0.4%
8.6966	1	0.2%

RAD

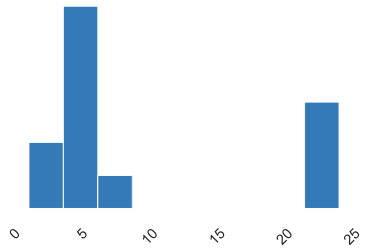
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 3 fields: CRIM, NOX, TAX)
HIGH CORRELATION (This variable has a high correlation with 4 fields: CRIM, INDUS, NOX, TAX)
HIGH CORRELATION (This variable has a high correlation with 2 fields: CRIM, TAX)
HIGH CORRELATION (This variable has a high correlation with 9 fields: ZN, INDUS, NOX, AGE, DIS, TAX, PTRATIO, LSTAT, MEDV)

Distinct	9
Distinct (%)	1.8%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	9.549407115

Minimum	1
Maximum	24
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



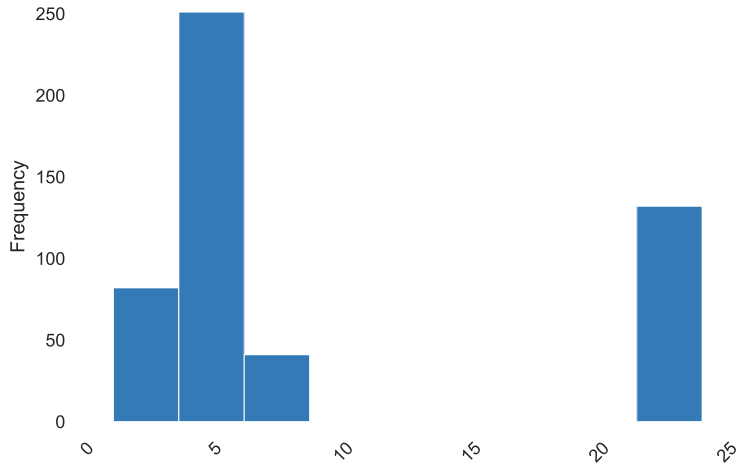
Quantile statistics

Minimum	1
5-th percentile	2
Q1	4
median	5
Q3	24
95-th percentile	24
Maximum	24
Range	23
Interquartile range (IQR)	20

Descriptive statistics

Standard deviation	8.707259384
Coefficient of variation (CV)	0.9118115166
Kurtosis	-0.8672319936
Mean	9.549407115
Median Absolute Deviation (MAD)	2
Skewness	1.004814648
Sum	4832
Variance	75.81636598

Monotonicity	Not monotonic



Histogram with fixed size bins (bins=9)

Value	Count	Frequency (%)
24	132	26.1%
5	115	22.7%
4	110	21.7%
3	38	7.5%
6	26	5.1%
2	24	4.7%
8	24	4.7%
1	20	4.0%
7	17	3.4%

Value	Count	Frequency (%)
1	20	4.0%
2	24	4.7%
3	38	7.5%
4	110	21.7%
5	115	22.7%
6	26	5.1%
7	17	3.4%
8	24	4.7%
24	132	26.1%

Value	Count	Frequency (%)
24	132	26.1%
8	24	4.7%
7	17	3.4%
6	26	5.1%
5	115	22.7%
4	110	21.7%
3	38	7.5%
2	24	4.7%
1	20	4.0%

TAX

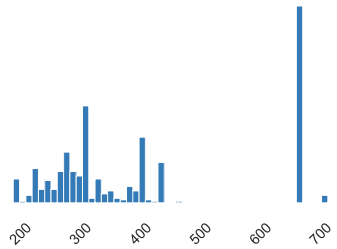
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 8 fields: CRIM, INDUS, NOX, AGE, DIS, RAD, LSTAT, MEDV)
HIGH CORRELATION (This variable has a high correlation with 7 fields: CRIM, INDUS, NOX, AGE, DIS, RAD, LSTAT)
HIGH CORRELATION (This variable has a high correlation with 2 fields: CRIM, RAD)
HIGH CORRELATION (This variable has a high correlation with 6 fields: ZN, INDUS, NOX, DIS, RAD, PTRATIO)

Distinct	66
Distinct (%)	13.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	408.2371542

Minimum	187
Maximum	711
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



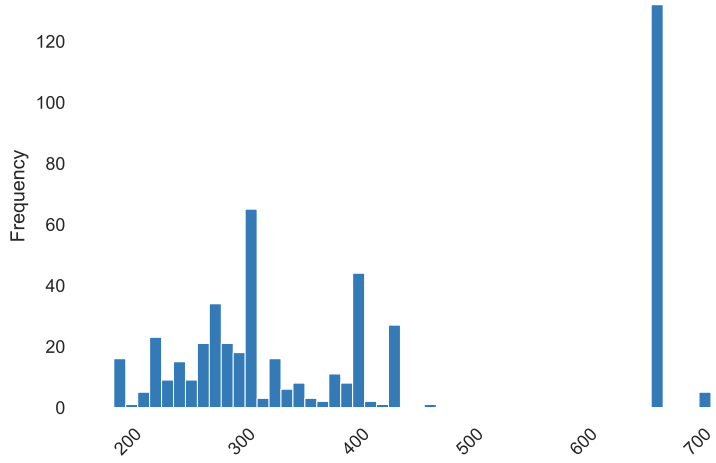
Quantile statistics

Minimum	187
5-th percentile	222
Q1	279
median	330
Q3	666
95-th percentile	666
Maximum	711
Range	524
Interquartile range (IQR)	387

Descriptive statistics

Standard deviation	168.5371161
Coefficient of variation (CV)	0.4128411987
Kurtosis	-1.142407992
Mean	408.2371542
Median Absolute Deviation (MAD)	73
Skewness	0.6699559418
Sum	206568
Variance	28404.75949

Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
666	132	26.1%
307	40	7.9%
403	30	5.9%
437	15	3.0%
304	14	2.8%
264	12	2.4%
398	12	2.4%
384	11	2.2%
277	11	2.2%
224	10	2.0%
Other values (56)	219	43.3%

Value	Count	Frequency (%)
187	1	0.2%
188	7	1.4%
193	8	1.6%
198	1	0.2%
216	5	1.0%
222	7	1.4%
223	5	1.0%
224	10	2.0%
226	1	0.2%
233	9	1.8%

Value	Count	Frequency (%)
711	5	1.0%
666	132	26.1%
469	1	0.2%
437	15	3.0%
432	9	1.8%
430	3	0.6%
422	1	0.2%
411	2	0.4%
403	30	5.9%
402	2	0.4%

PTRATIO

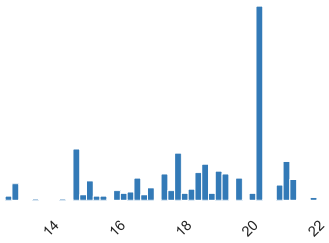
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 1 fields: MEDV)
HIGH CORRELATION (This variable has a high correlation with 1 fields: MEDV)
HIGH CORRELATION (This variable has a high correlation with 10 fields: ZN, INDUS, NOX, RM, AGE, DIS, RAD, TAX, LSTAT, MEDV)

Distinct	46
Distinct (%)	9.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	18.4555336

Minimum	12.6
Maximum	22
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



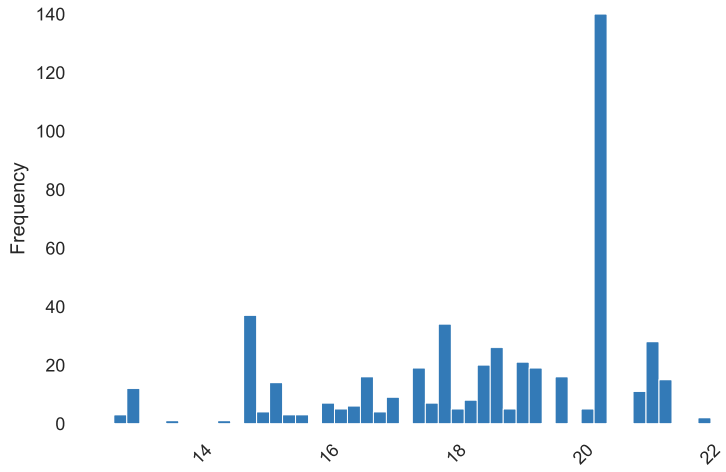
Quantile statistics

Minimum	12.6
5-th percentile	14.7
Q1	17.4
median	19.05
Q3	20.2
95-th percentile	21
Maximum	22
Range	9.4
Interquartile range (IQR)	2.8

Descriptive statistics

Standard deviation	2.164945524
Coefficient of variation (CV)	0.1173060379
Kurtosis	-0.2850913833
Mean	18.4555336
Median Absolute Deviation (MAD)	1.15
Skewness	-0.8023249269
Sum	9338.5
Variance	4.686989121

Monotonicity	Not monotonic



Histogram with fixed size bins (bins=46)

Value	Count	Frequency (%)
20.2	140	27.7%
14.7	34	6.7%
21	27	5.3%
17.8	23	4.5%
19.2	19	3.8%
17.4	18	3.6%
18.6	17	3.4%
19.1	17	3.4%
18.4	16	3.2%
16.6	16	3.2%
Other values (36)	179	35.4%

Value	Count	Frequency (%)
12.6	3	0.6%
13	12	2.4%
13.6	1	0.2%
14.4	1	0.2%
14.7	34	6.7%
14.8	3	0.6%
14.9	4	0.8%
15.1	1	0.2%
15.2	13	2.6%
15.3	3	0.6%

Value	Count	Frequency (%)
22	2	0.4%
21.2	15	3.0%
21.1	1	0.2%
21	27	5.3%
20.9	11	2.2%
20.2	140	27.7%
20.1	5	1.0%
19.7	8	1.6%
19.6	8	1.6%
19.2	19	3.8%

B

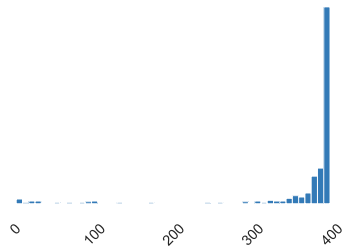
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 2 fields: CRIM, RM)

Distinct	357
Distinct (%)	70.6%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	356.6740316

Minimum	0.32
Maximum	396.9
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB

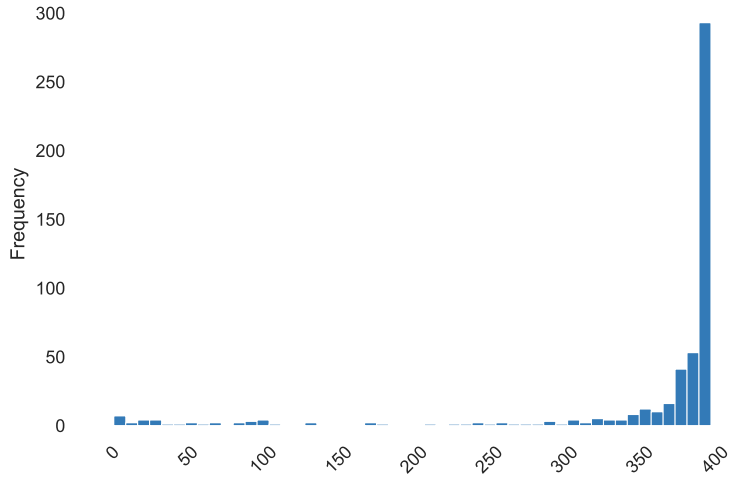


Quantile statistics

Minimum	0.32
5-th percentile	84.59
Q1	375.3775
median	391.44
Q3	396.225
95-th percentile	396.9
Maximum	396.9
Range	396.58
Interquartile range (IQR)	20.8475

Descriptive statistics

Standard deviation	91.29486438
Coefficient of variation (CV)	0.255961624
Kurtosis	7.226817549
Mean	356.6740316
Median Absolute Deviation (MAD)	5.46
Skewness	-2.890373712
Sum	180477.06
Variance	8334.752263
Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
396.9	121	23.9%
393.74	3	0.6%
395.24	3	0.6%
376.14	2	0.4%
394.72	2	0.4%
395.63	2	0.4%
392.8	2	0.4%
395.56	2	0.4%
390.94	2	0.4%
393.68	2	0.4%
Other values (347)	365	72.1%

Value	Count	Frequency (%)
0.32	1	0.2%
2.52	1	0.2%
2.6	1	0.2%
3.5	1	0.2%
3.65	1	0.2%
6.68	1	0.2%
7.68	1	0.2%
9.32	1	0.2%
10.48	1	0.2%
16.45	1	0.2%

Value	Count	Frequency (%)
396.9	121	23.9%
396.42	1	0.2%
396.33	1	0.2%
396.3	1	0.2%
396.28	1	0.2%
396.24	1	0.2%
396.23	1	0.2%
396.21	2	0.4%
396.14	1	0.2%
396.06	2	0.4%

LSTAT

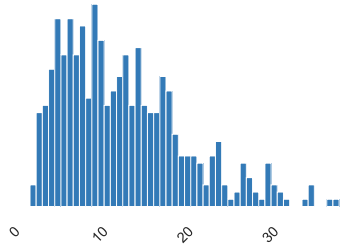
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 8 fields: CRIM, INDUS, NOX, RM, AGE, DIS, TAX, MEDV)
HIGH CORRELATION (This variable has a high correlation with 6 fields: INDUS, NOX, RM, AGE, TAX, MEDV)
HIGH CORRELATION (This variable has a high correlation with 1 fields: MEDV)
HIGH CORRELATION (This variable has a high correlation with 7 fields: NOX, RM, AGE, DIS, RAD, PTRATIO, MEDV)

Distinct	455
Distinct (%)	89.9%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	12.65306324

Minimum	1.73
Maximum	37.97
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



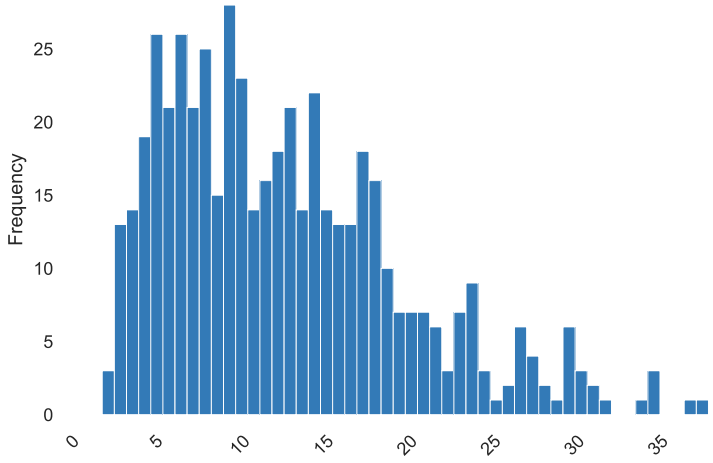
Quantile statistics

Minimum	1.73
5-th percentile	3.7075
Q1	6.95
median	11.36
Q3	16.955
95-th percentile	26.8075
Maximum	37.97
Range	36.24
Interquartile range (IQR)	10.005

Descriptive statistics

Standard deviation	7.141061511
Coefficient of variation (CV)	0.5643741263
Kurtosis	0.4932395174
Mean	12.65306324
Median Absolute Deviation (MAD)	4.795
Skewness	0.9064600936
Sum	6402.45
Variance	50.99475951

Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
7.79	3	0.6%
14.1	3	0.6%
6.36	3	0.6%
18.13	3	0.6%
8.05	3	0.6%
5.29	2	0.4%
13.44	2	0.4%
7.44	2	0.4%
18.06	2	0.4%
5.49	2	0.4%
Other values (445)	481	95.1%

Value	Count	Frequency (%)
1.73	1	0.2%
1.92	1	0.2%
1.98	1	0.2%
2.47	1	0.2%
2.87	1	0.2%
2.88	1	0.2%
2.94	1	0.2%
2.96	1	0.2%
2.97	1	0.2%
2.98	1	0.2%

Value	Count	Frequency (%)
37.97	1	0.2%
36.98	1	0.2%
34.77	1	0.2%
34.41	1	0.2%
34.37	1	0.2%
34.02	1	0.2%
31.99	1	0.2%
30.81	2	0.4%
30.63	1	0.2%
30.62	1	0.2%

MEDV

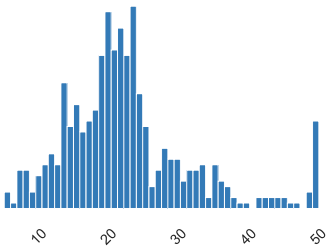
Real number ($\mathbb{R}_{\geq 0}$)

HIGH

CORRELATION (This variable has a high correlation with 8 fields: CRIM, INDUS, NOX, RM, AGE, TAX, PTRATIO, LSTAT)
HIGH CORRELATION (This variable has a high correlation with 3 fields: RM, PTRATIO, LSTAT)
HIGH CORRELATION (This variable has a high correlation with 1 fields: LSTAT)
HIGH CORRELATION (This variable has a high correlation with 9 fields: ZN, INDUS, NOX, RM, AGE, DIS, RAD, PTRATIO, LSTAT)

Distinct	229
Distinct (%)	45.3%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	22.53280632

Minimum	5
Maximum	50
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.1 KiB



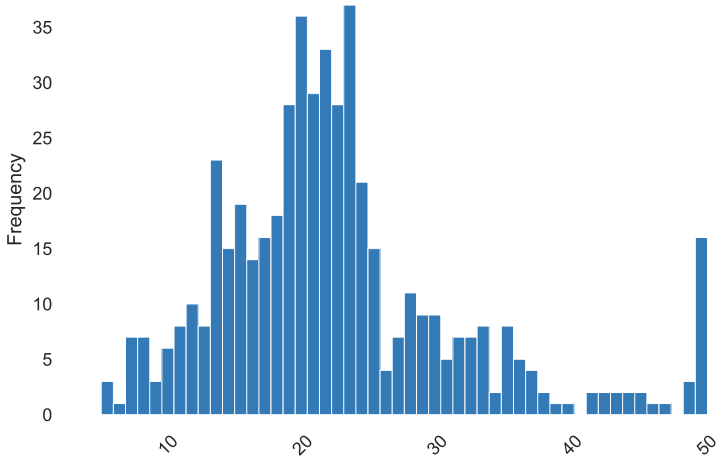
Quantile statistics

Minimum	5
5-th percentile	10.2
Q1	17.025
median	21.2
Q3	25
95-th percentile	43.4
Maximum	50
Range	45
Interquartile range (IQR)	7.975

Descriptive statistics

Standard deviation	9.197104087
Coefficient of variation (CV)	0.408165053
Kurtosis	1.495196944
Mean	22.53280632
Median Absolute Deviation (MAD)	4
Skewness	1.108098408
Sum	11401.6
Variance	84.58672359

Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
50	16	3.2%
25	8	1.6%
22	7	1.4%
21.7	7	1.4%
23.1	7	1.4%
19.4	6	1.2%
20.6	6	1.2%
13.8	5	1.0%
21.4	5	1.0%
20.1	5	1.0%
Other values (219)	434	85.8%

Value	Count	Frequency (%)
5	2	0.4%
5.6	1	0.2%
6.3	1	0.2%
7	2	0.4%
7.2	3	0.6%
7.4	1	0.2%
7.5	1	0.2%
8.1	1	0.2%
8.3	2	0.4%
8.4	2	0.4%

Value	Count	Frequency (%)
50	16	3.2%
48.8	1	0.2%
48.5	1	0.2%
48.3	1	0.2%
46.7	1	0.2%
46	1	0.2%
45.4	1	0.2%
44.8	1	0.2%
44	1	0.2%
43.8	1	0.2%

~~Unnamed: 14~~
~~Unsupported~~

MISSING

REJECTED
UNSUPPORTED

Missing	506
Missing (%)	100.0%
Memory size	4.1 KiB

~~Unnamed: 15~~
~~Unsupported~~

MISSING

REJECTED
UNSUPPORTED

Missing	506
Missing (%)	100.0%
Memory size	4.1 KiB

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MISSING

REJECTED
UNSUPPORTED

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Memory size	4.1 KiB

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MISSING

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Missing	506
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UNSUPPORTED

Missing	506
Missing (%)	100.0%
Memory size	4.1 KiB

Interactions

CRIM
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NOX
RM
AGE
DIS
RAD
TAX
PTRATIO
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LSTAT
MEDV

MEDV
CRIM
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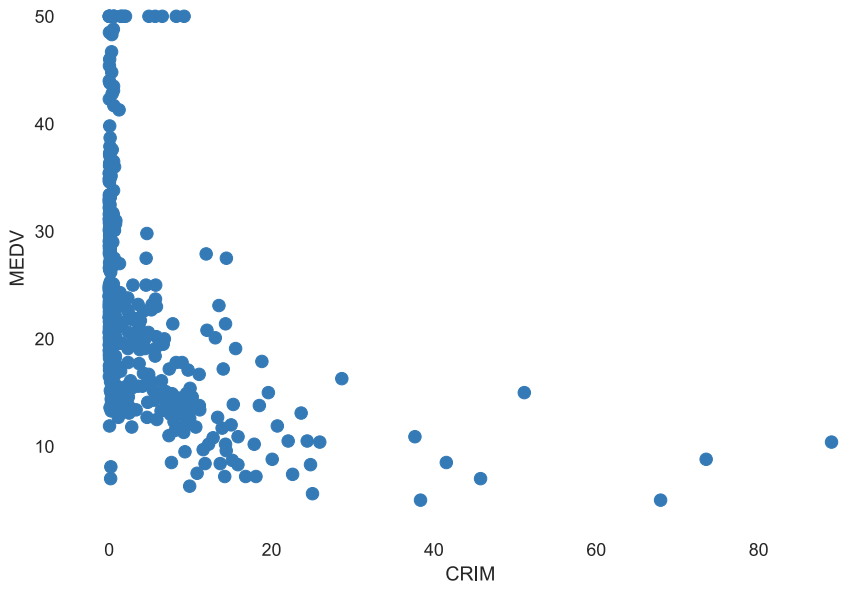
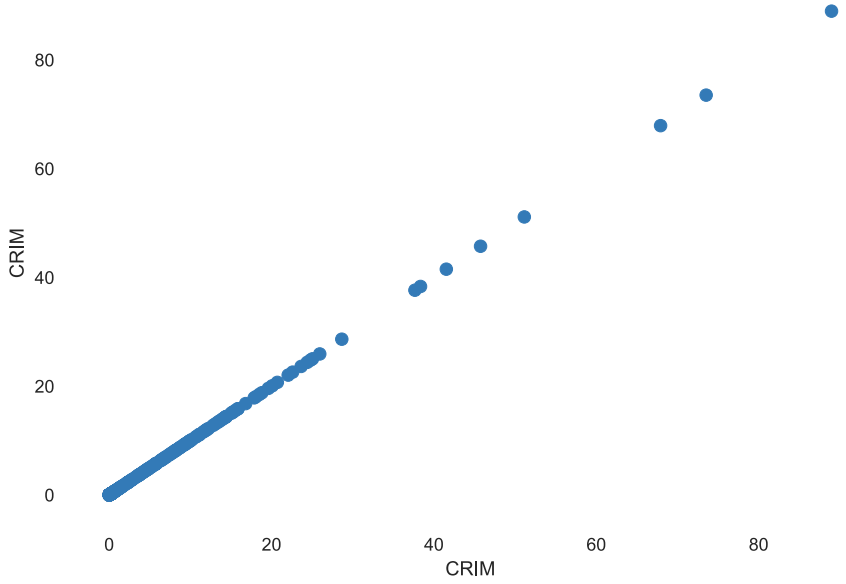
TAX
PTRATIO
B
LSTAT

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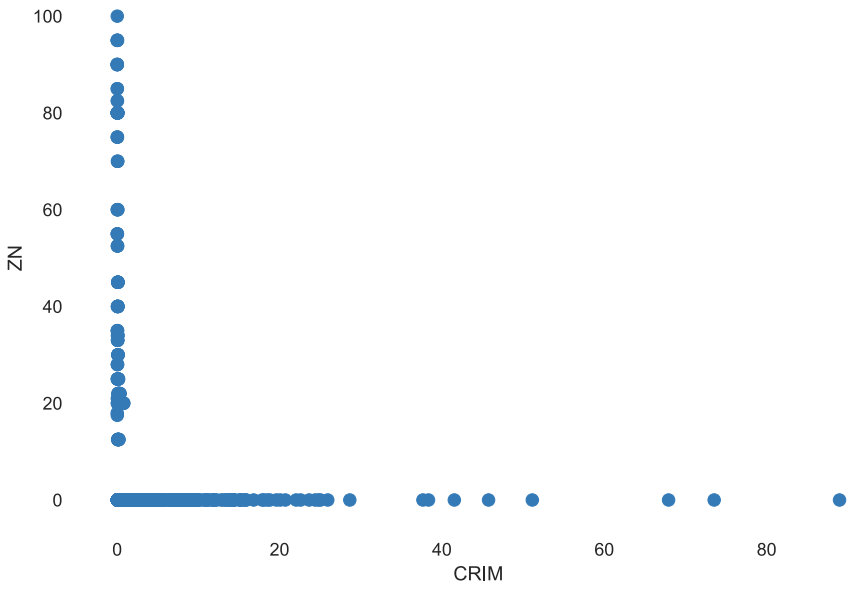
CRIM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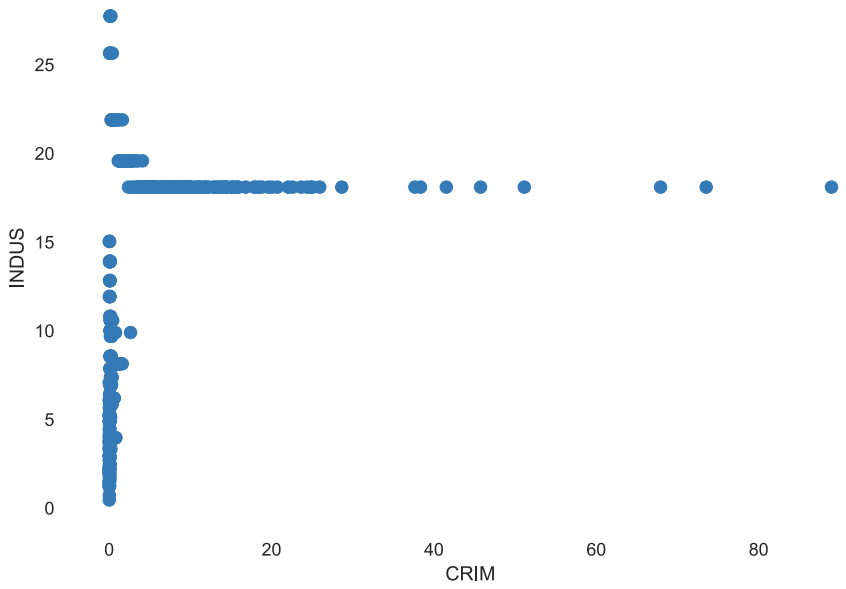
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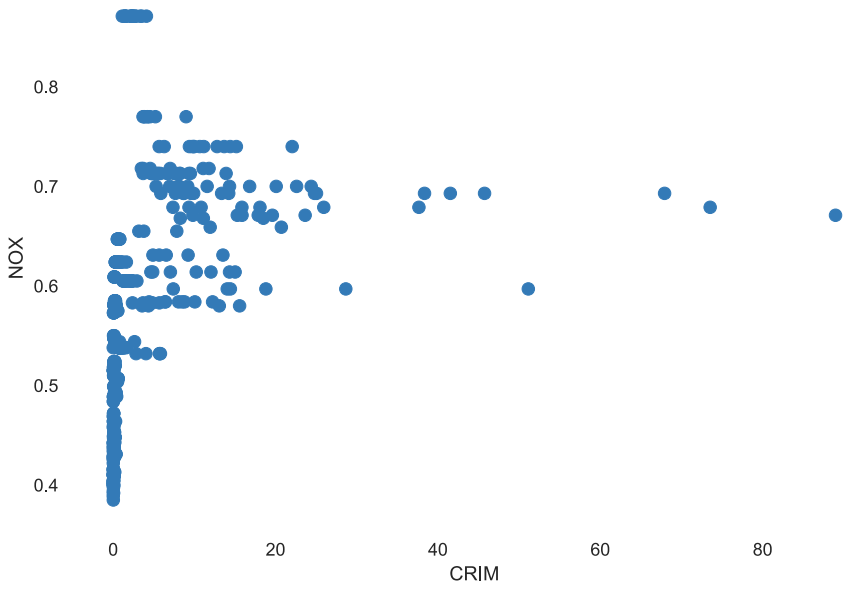
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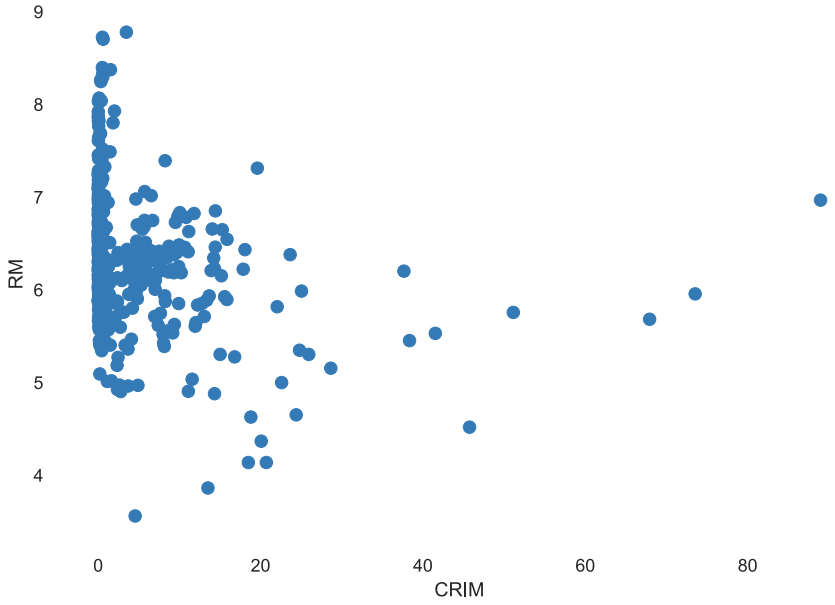
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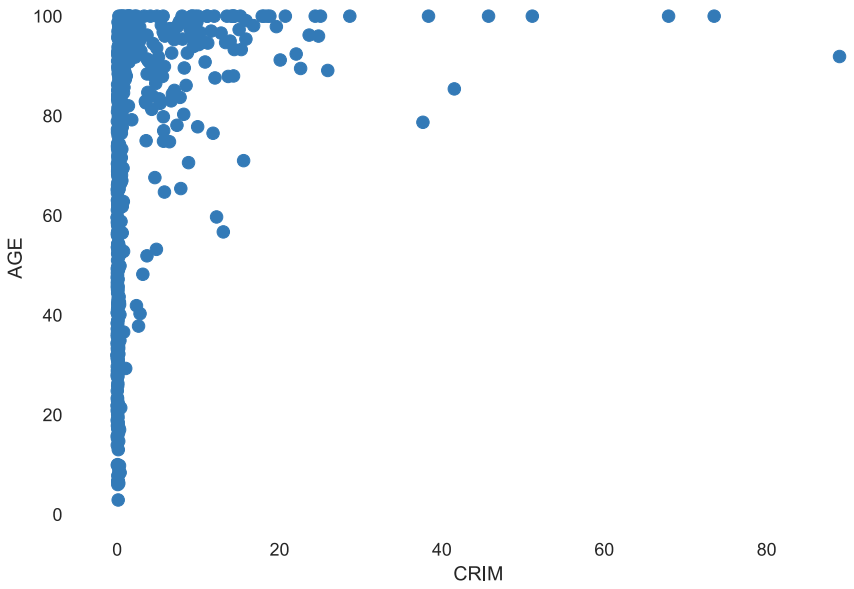
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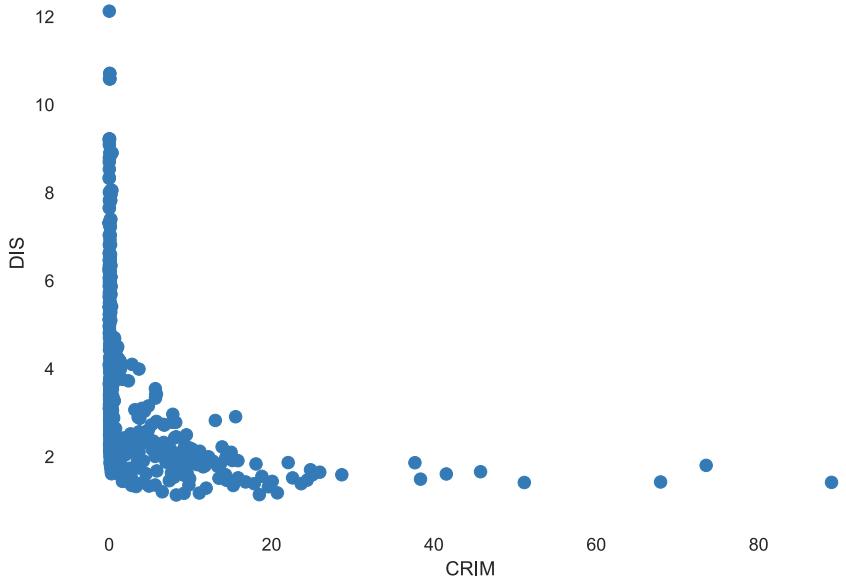
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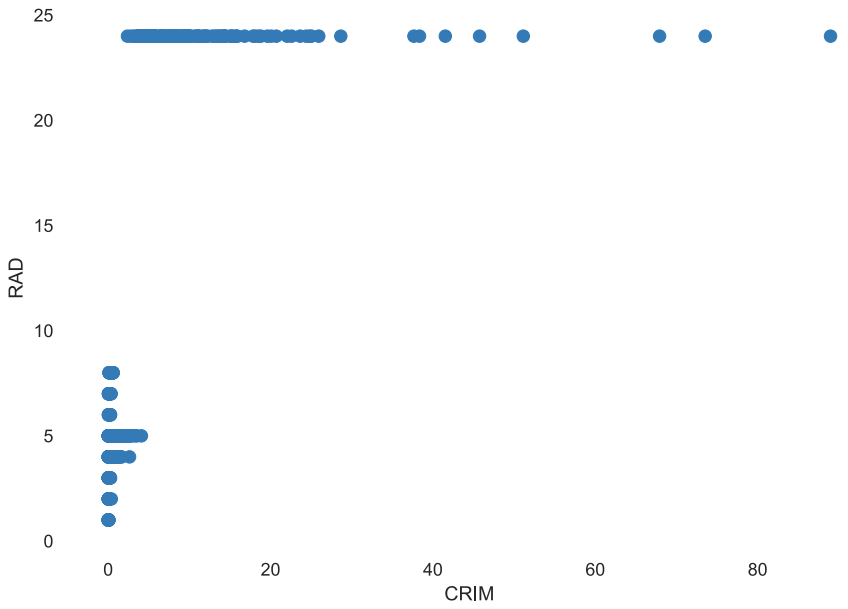
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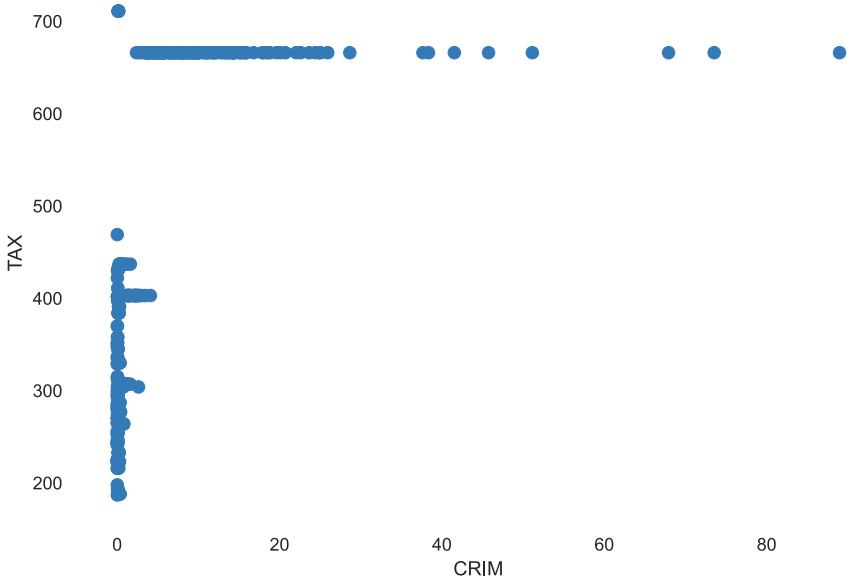
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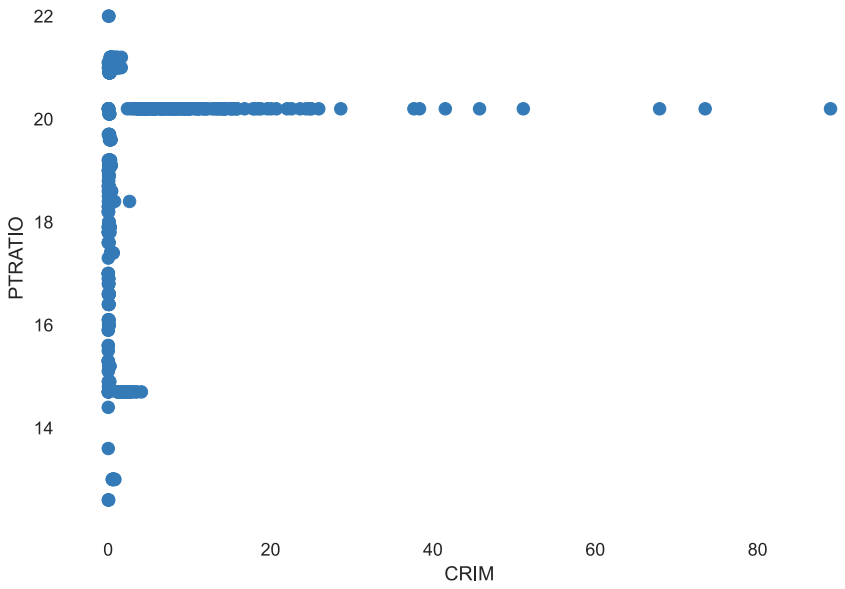
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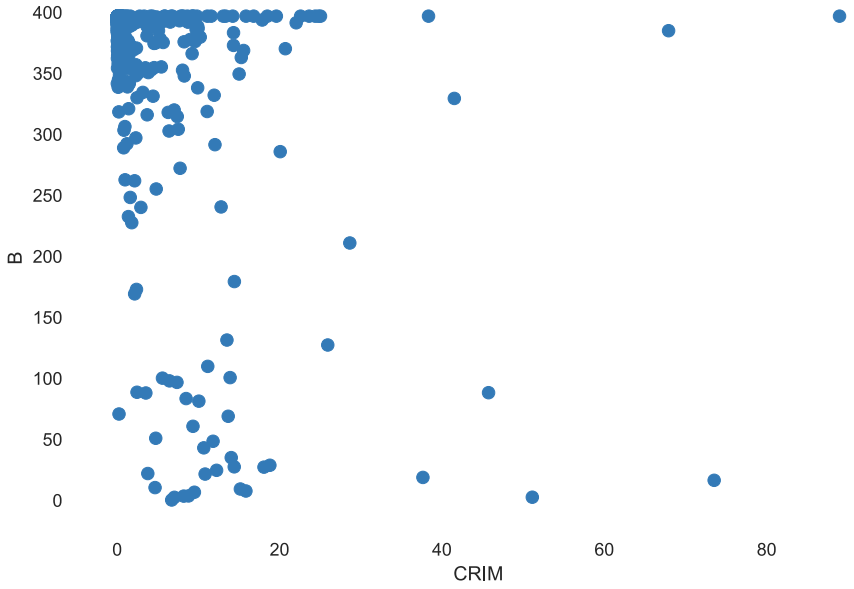
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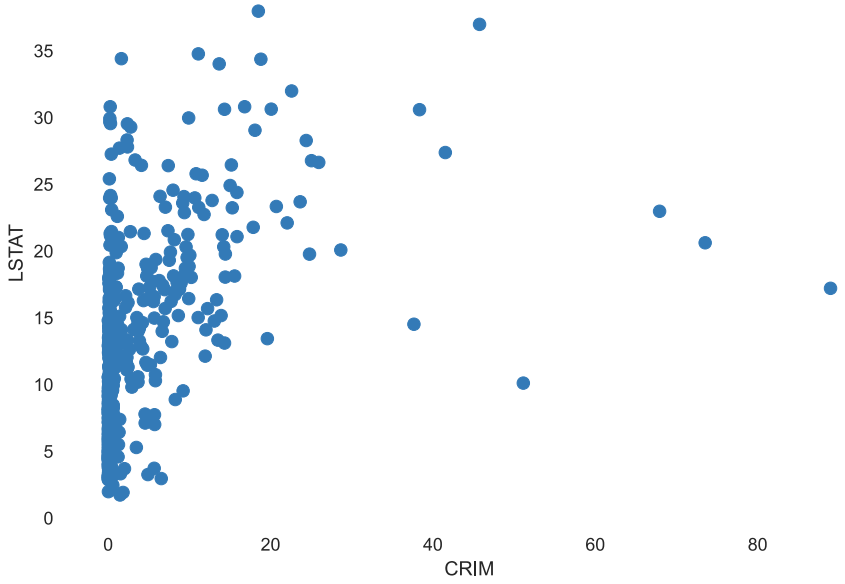
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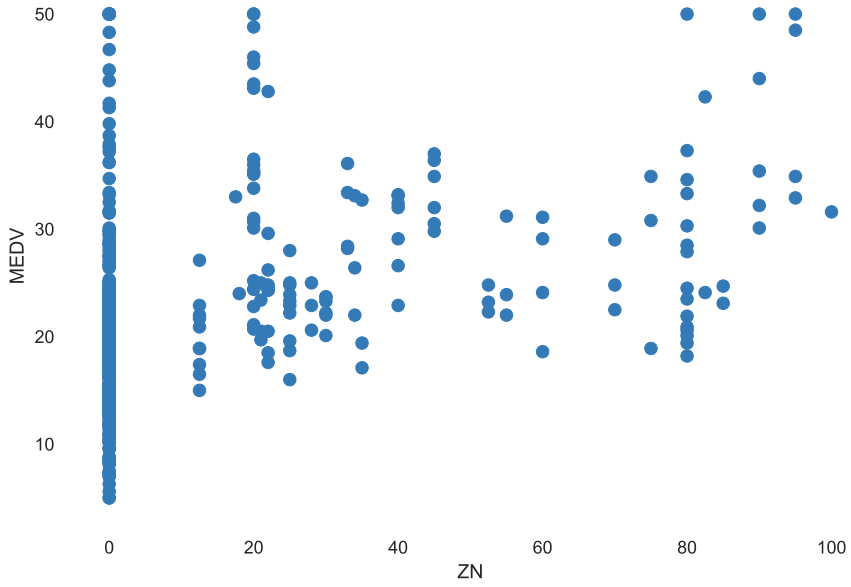

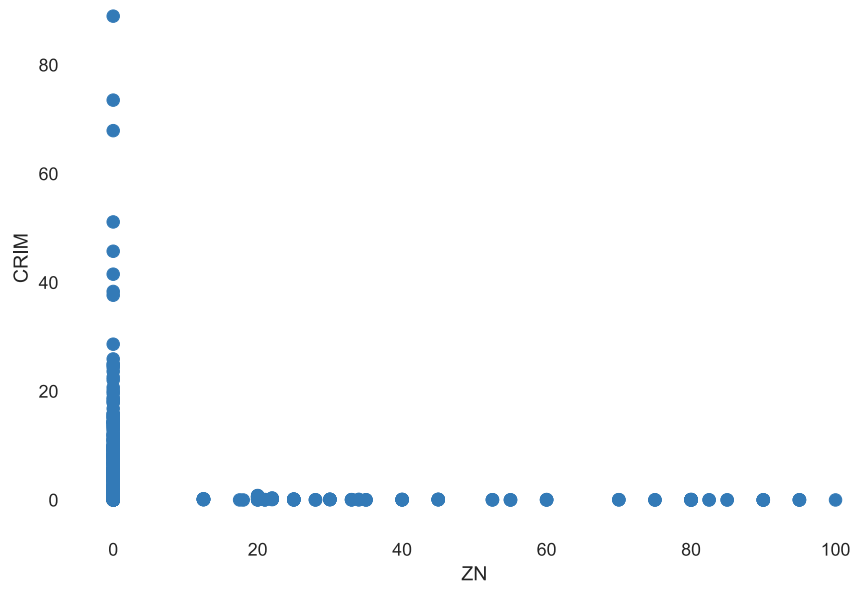
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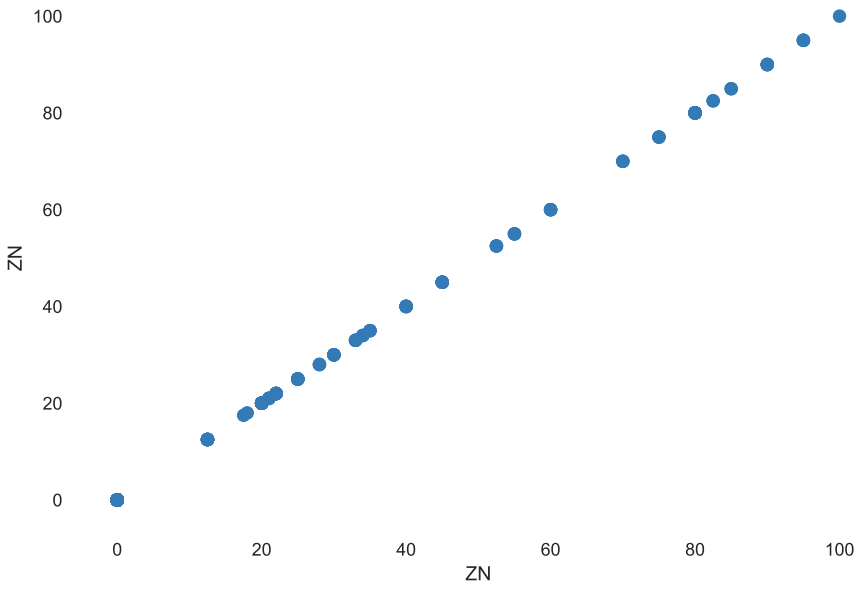
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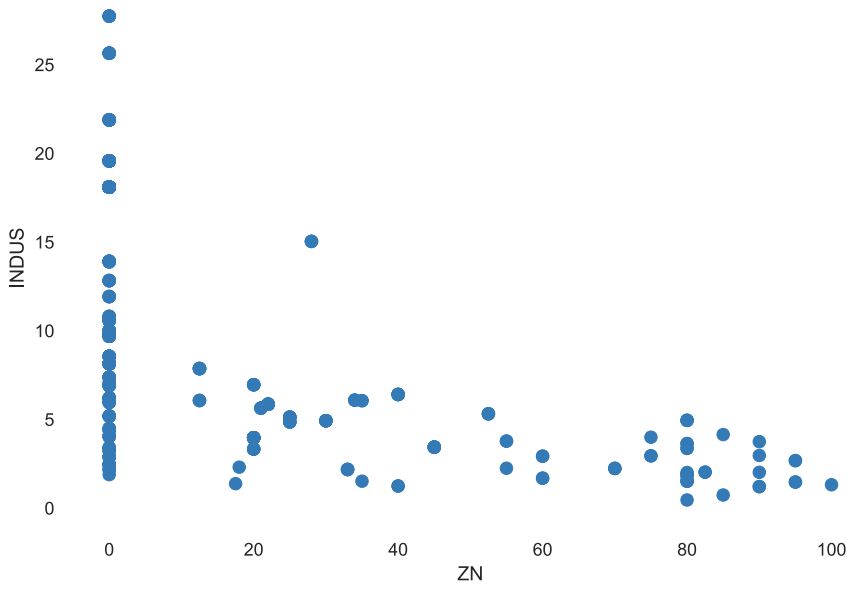
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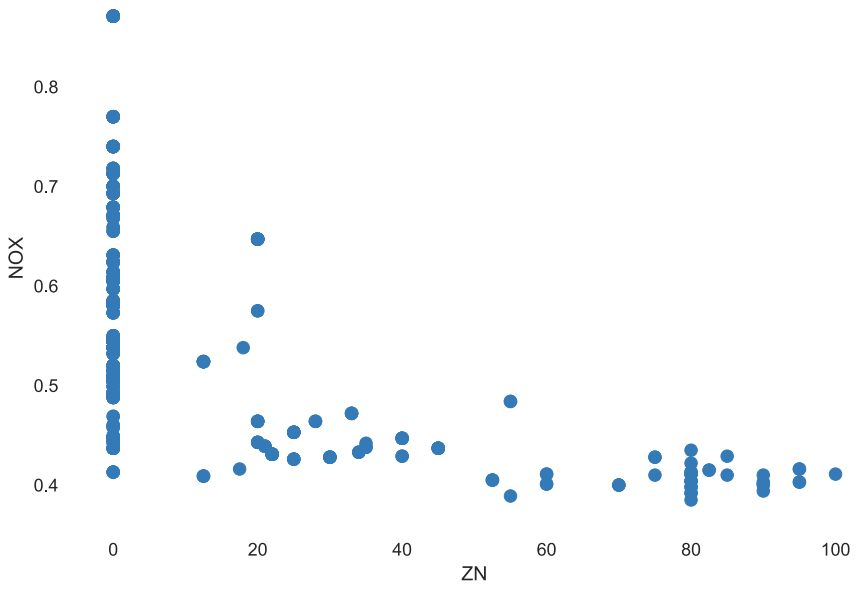
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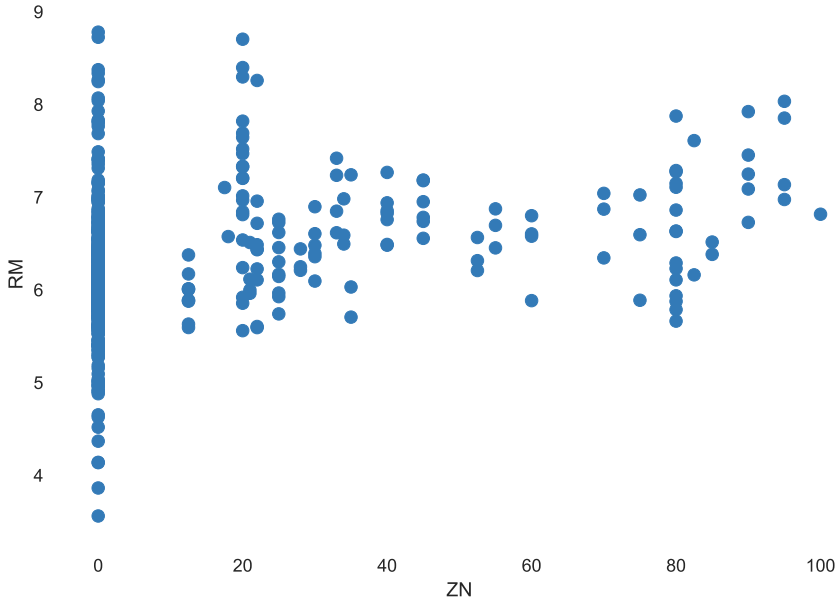
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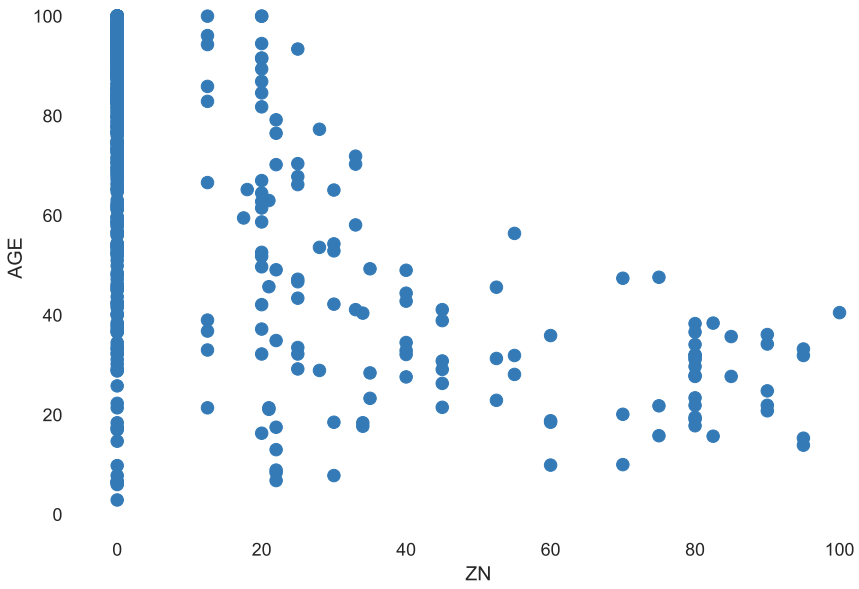
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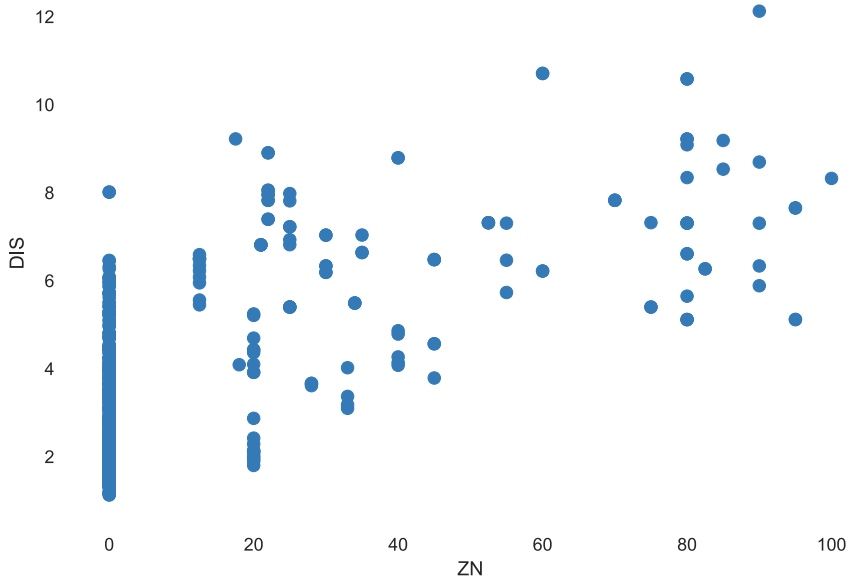
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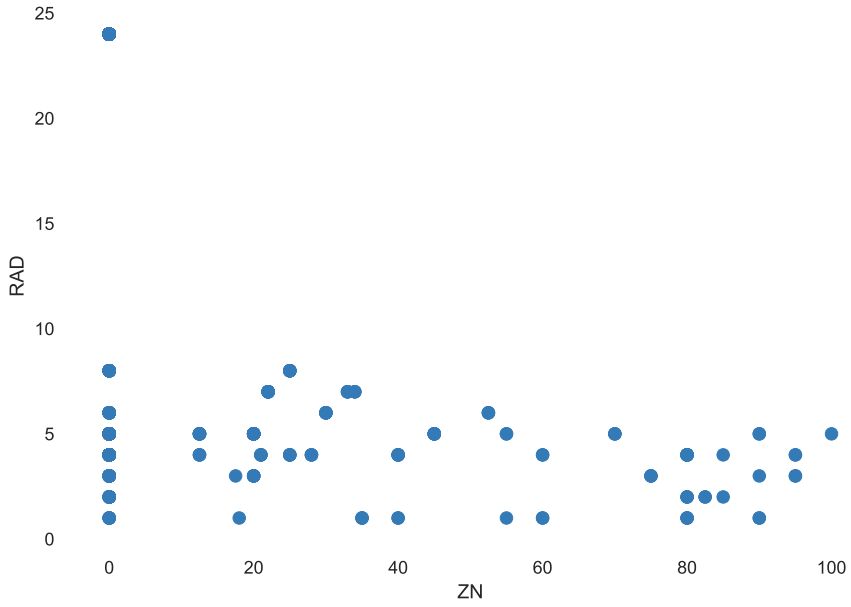
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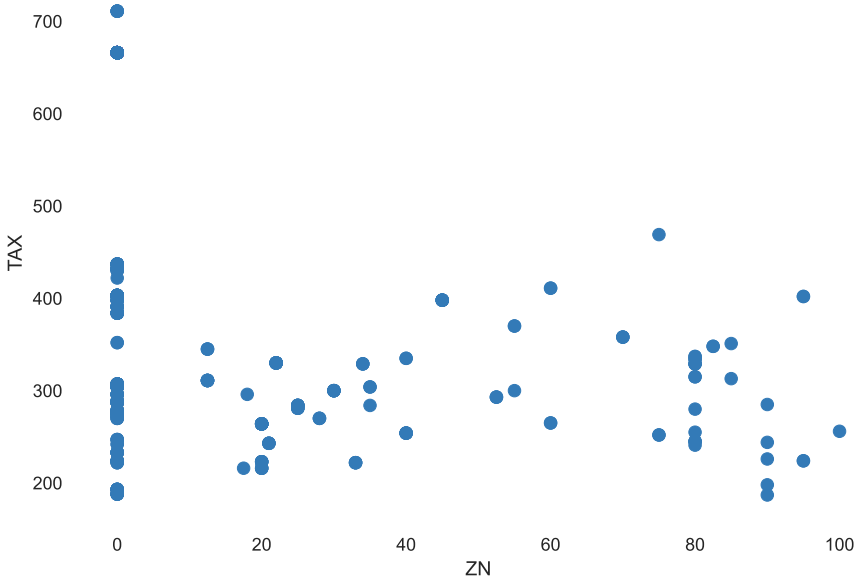
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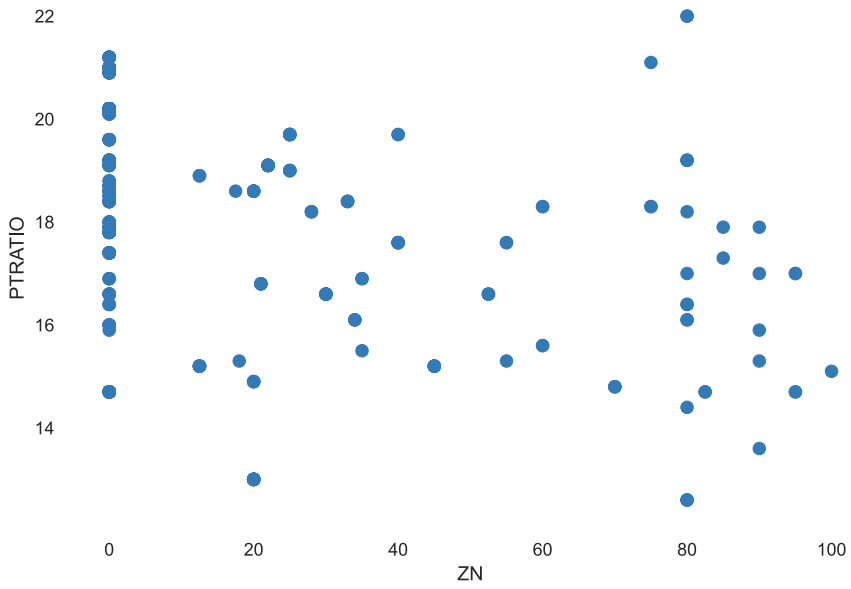
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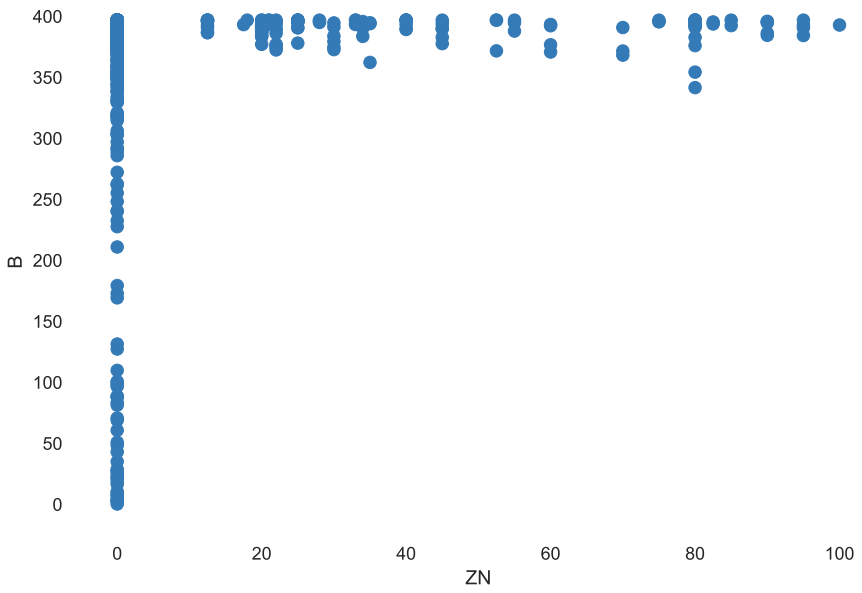
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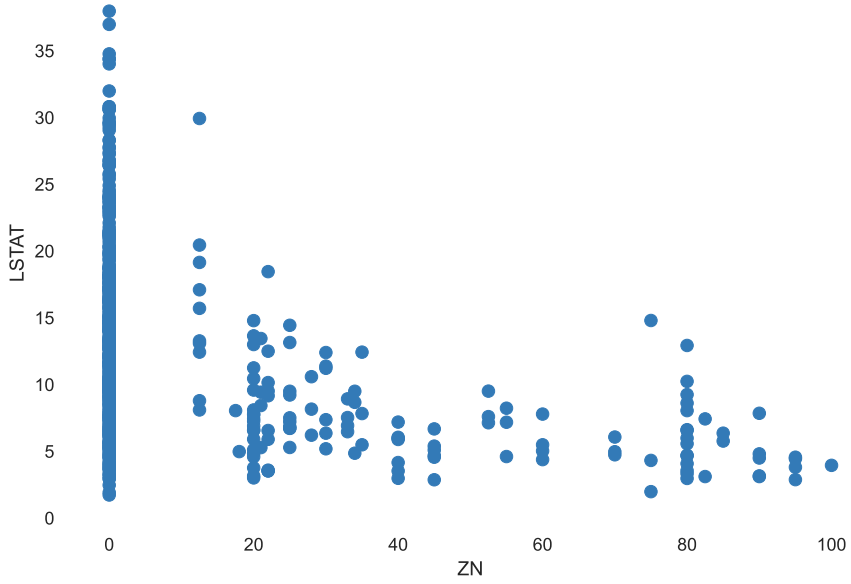
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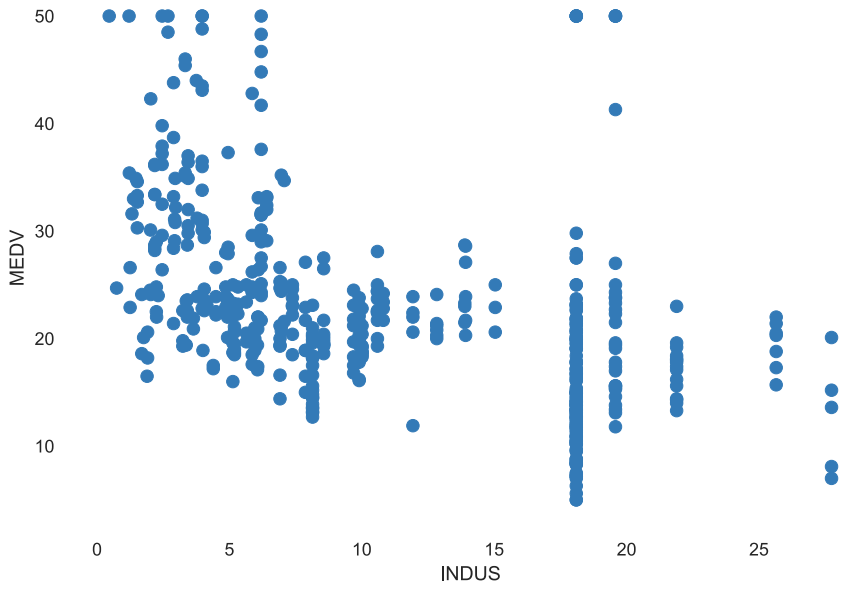

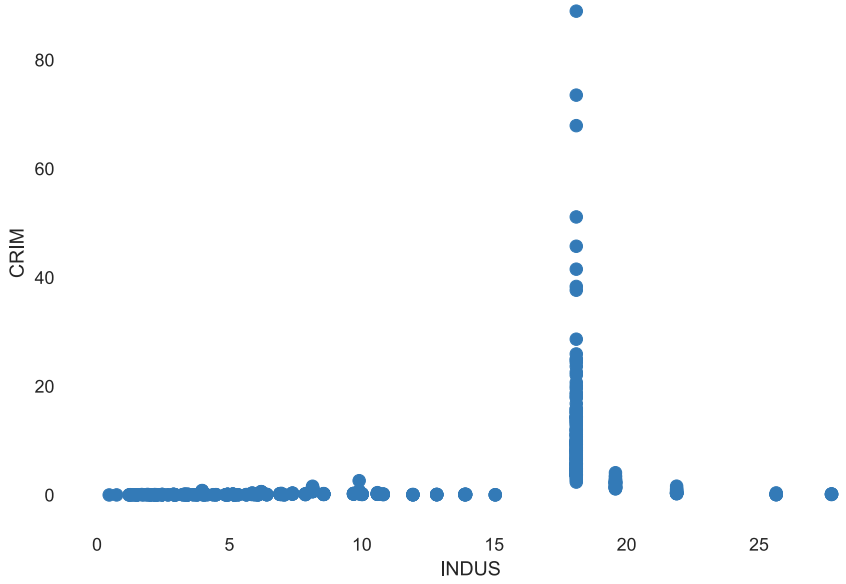
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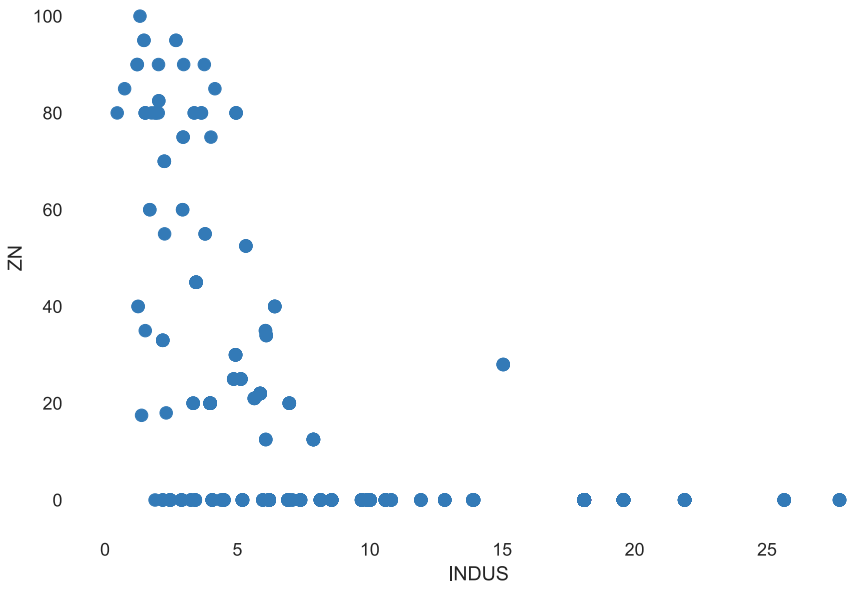
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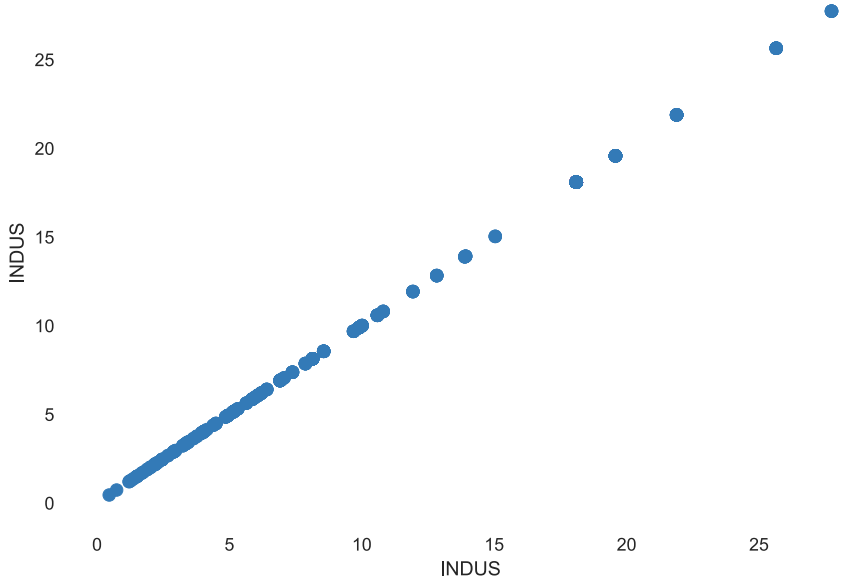
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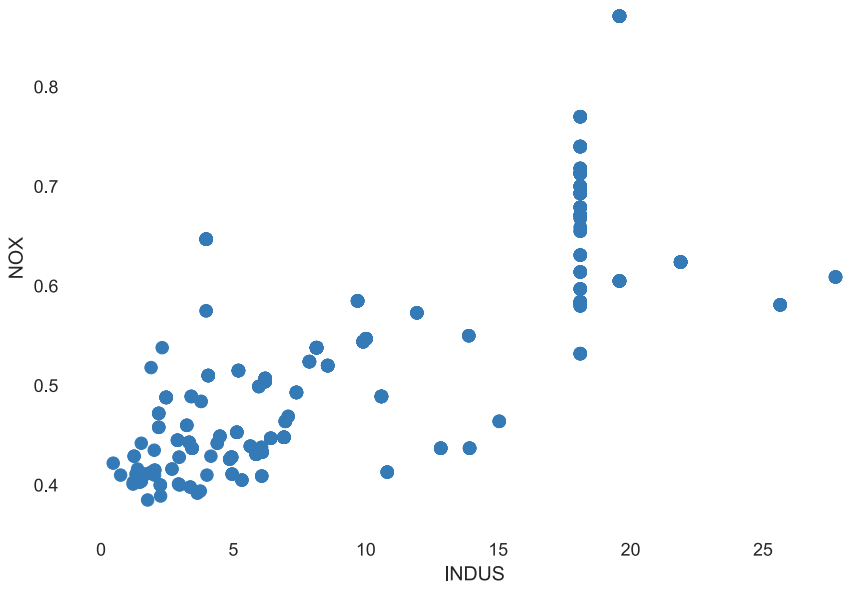
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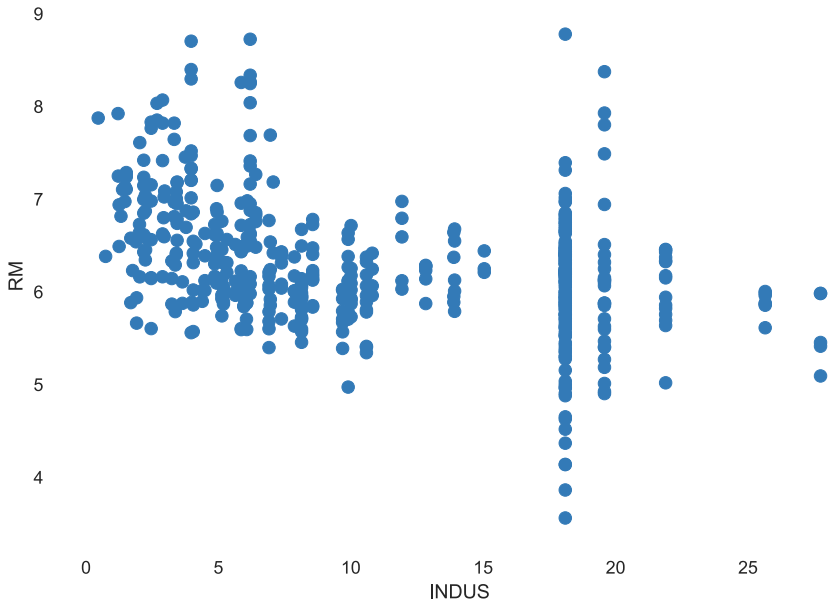
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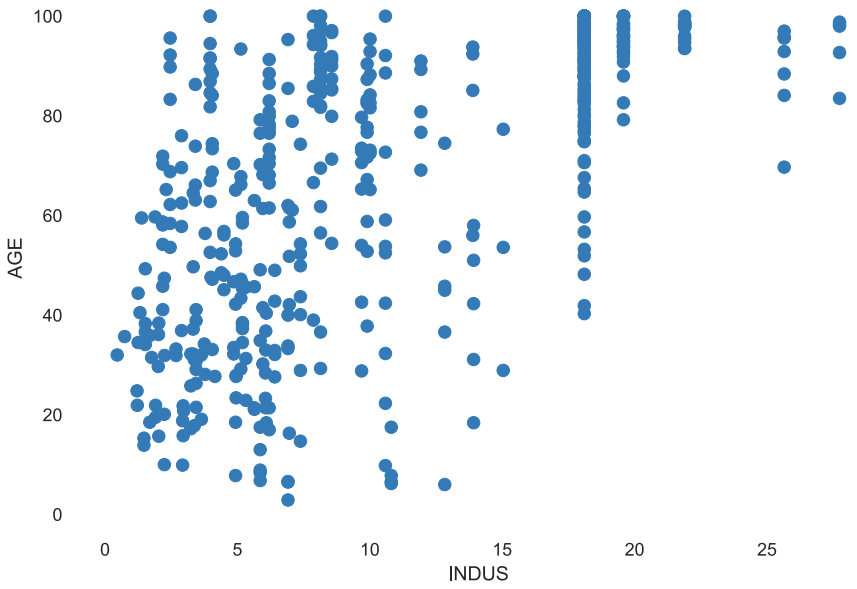
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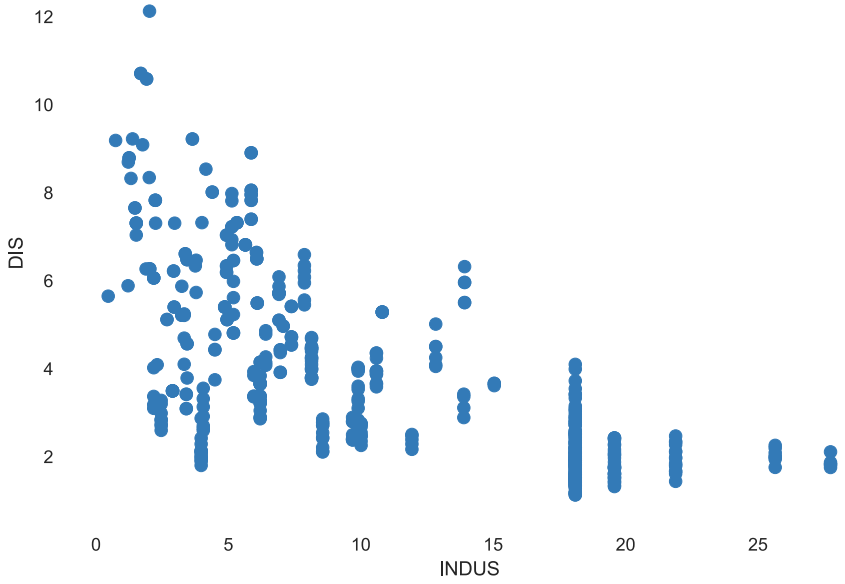
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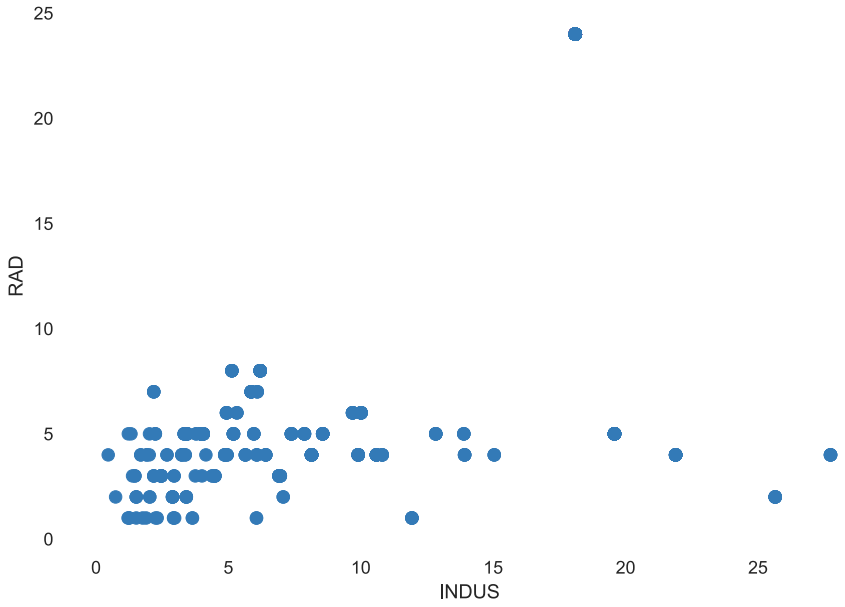
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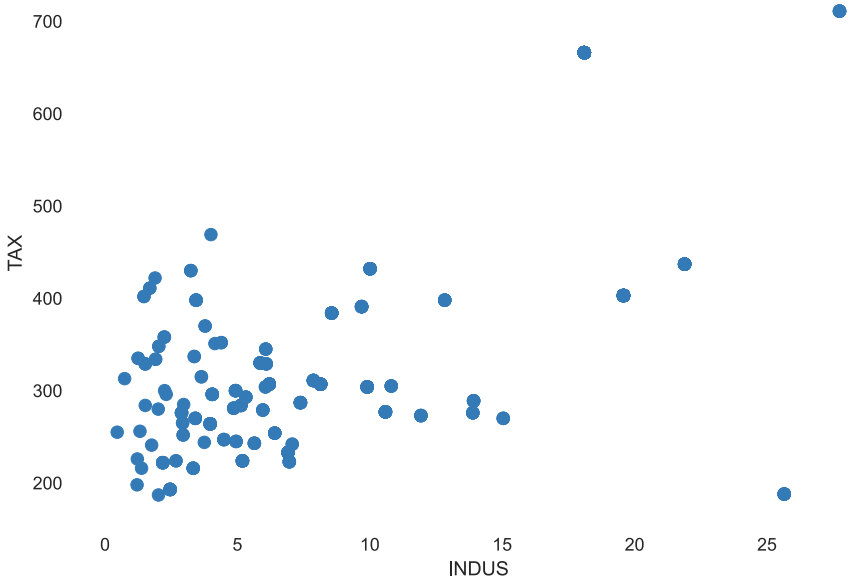
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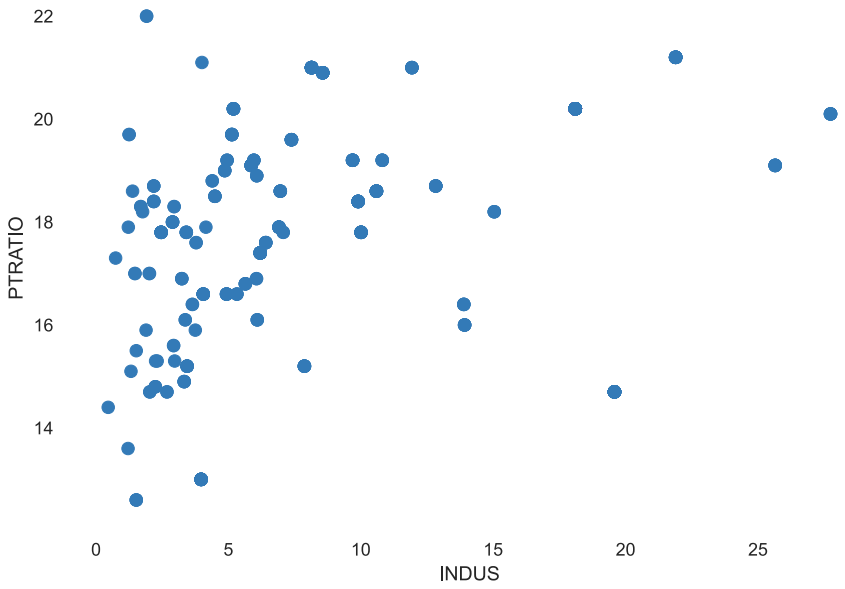
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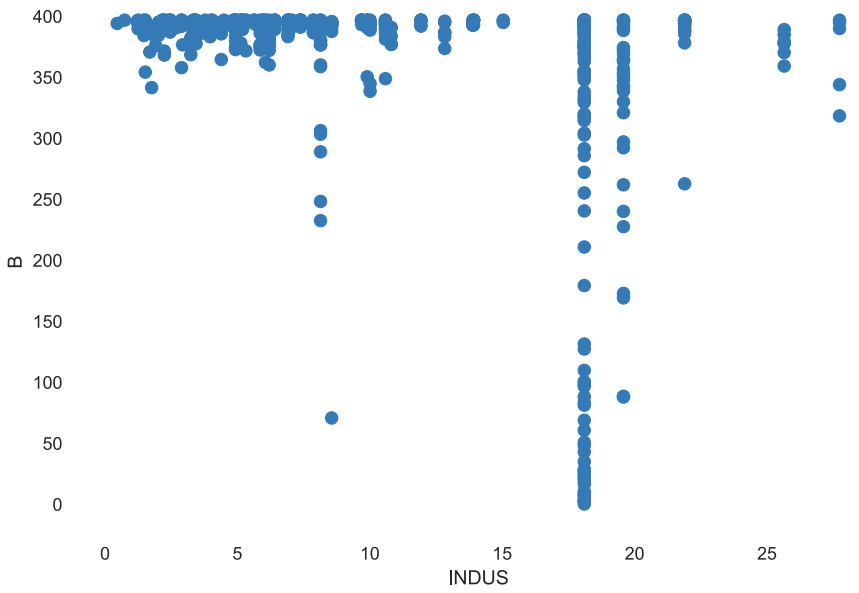
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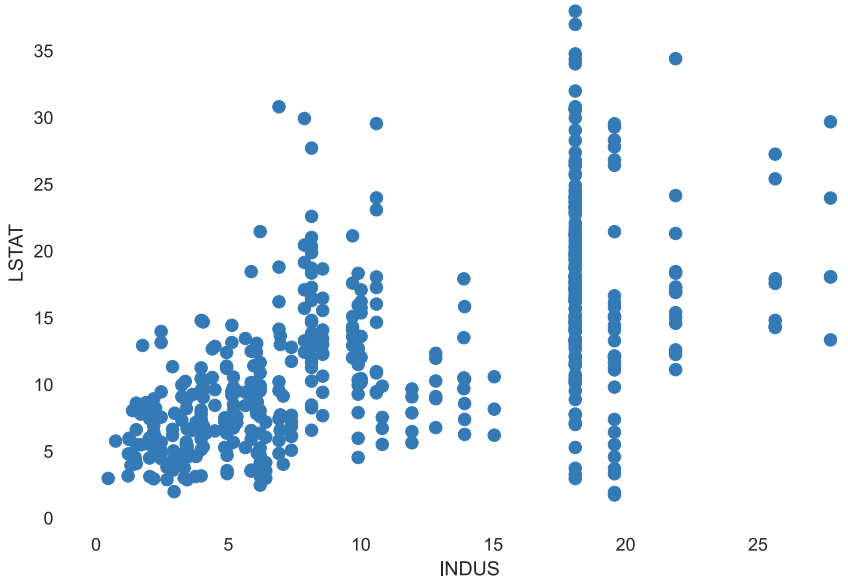
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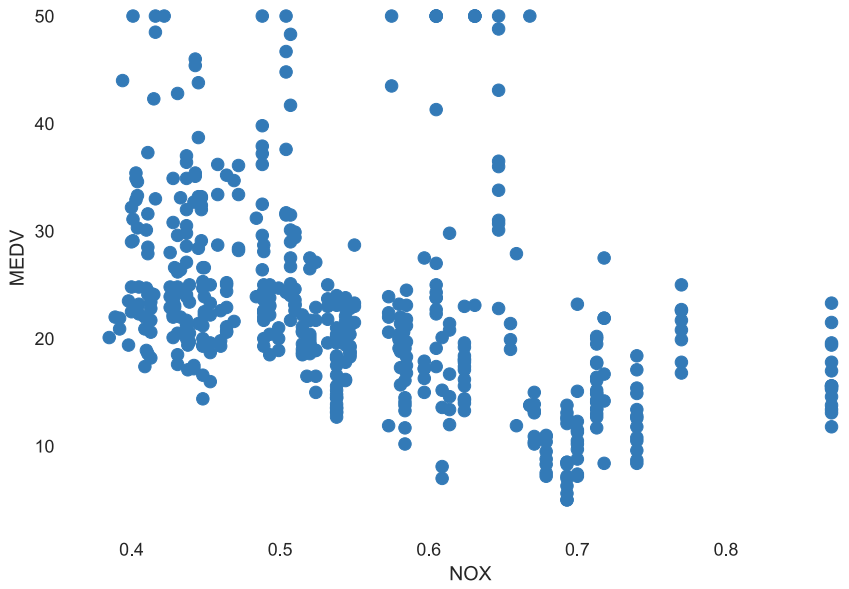

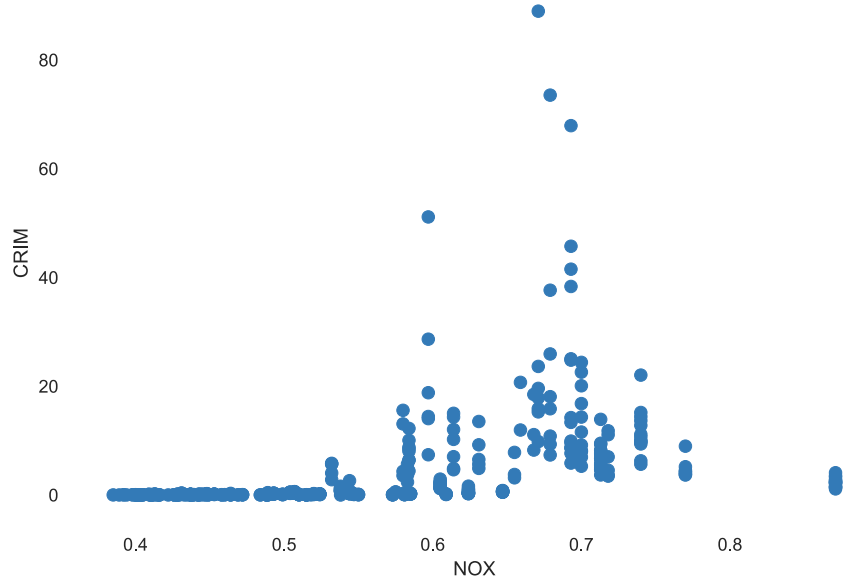
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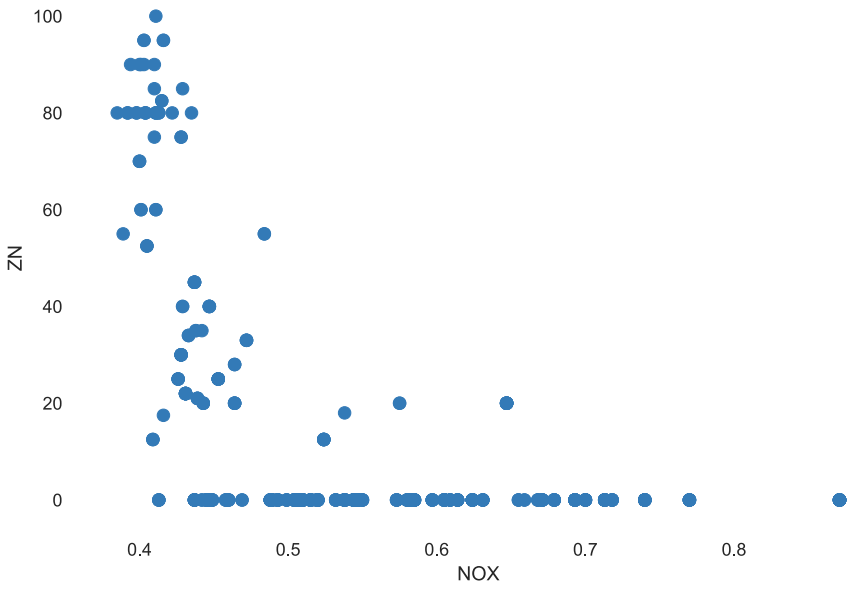
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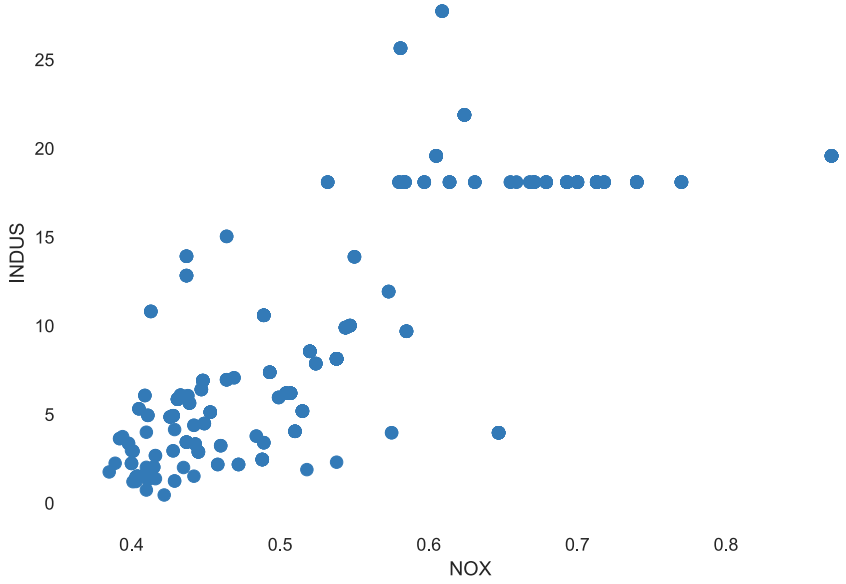
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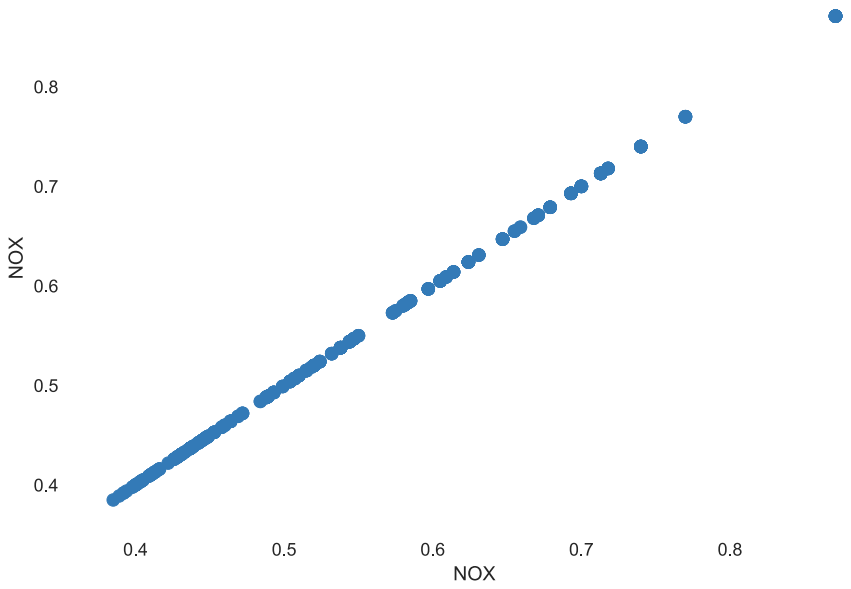
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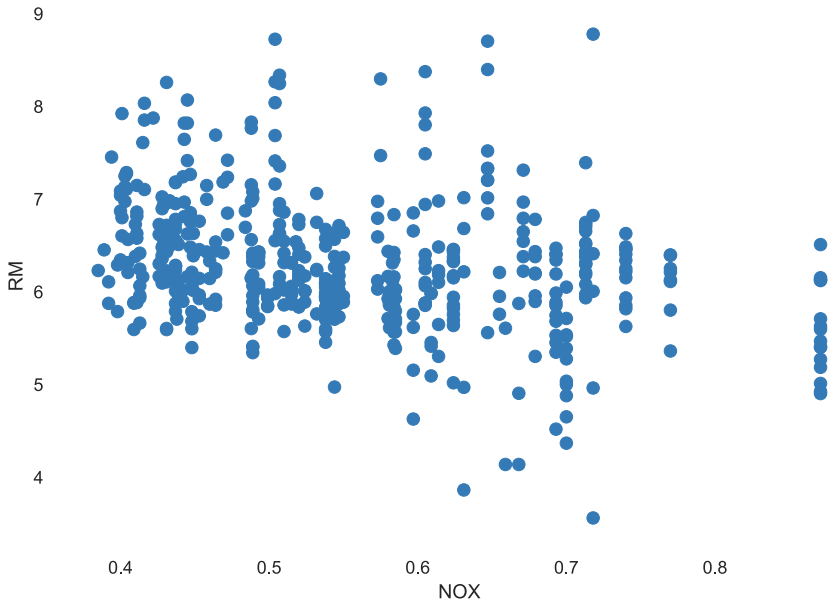
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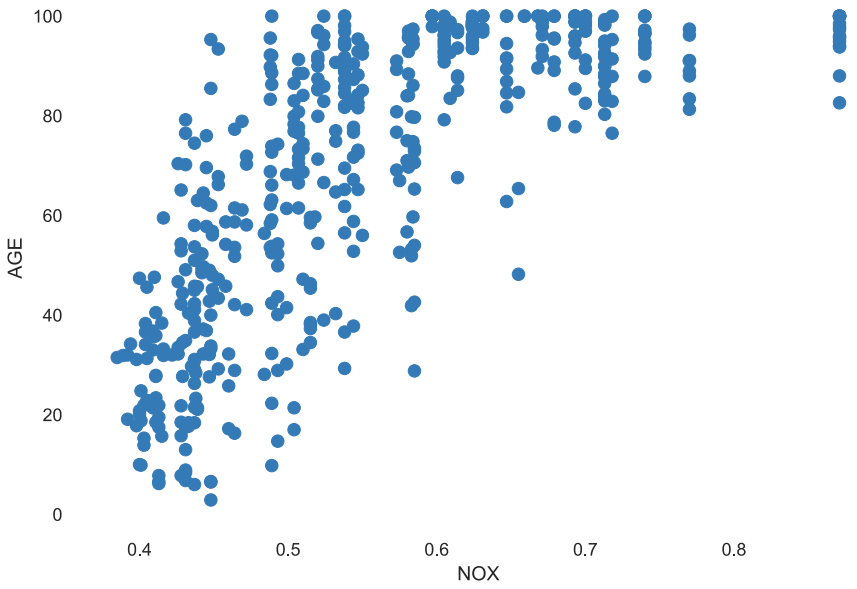
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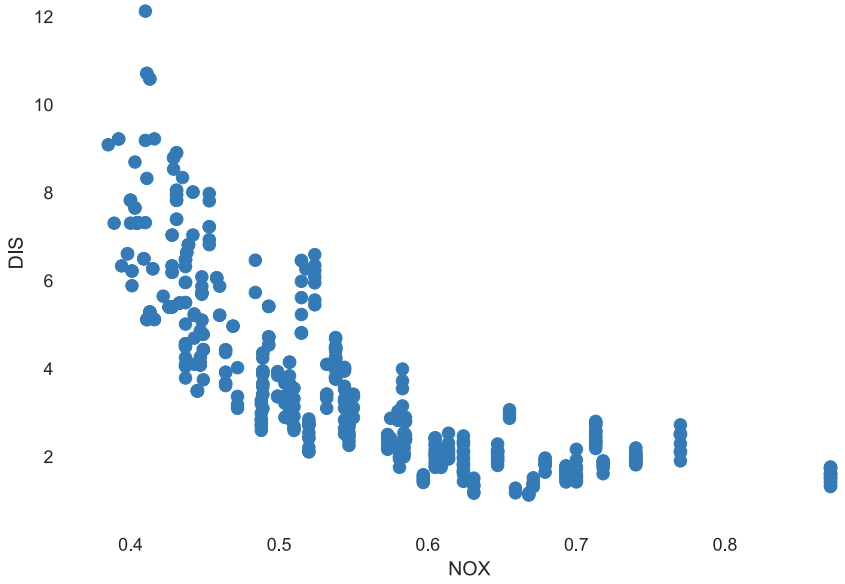
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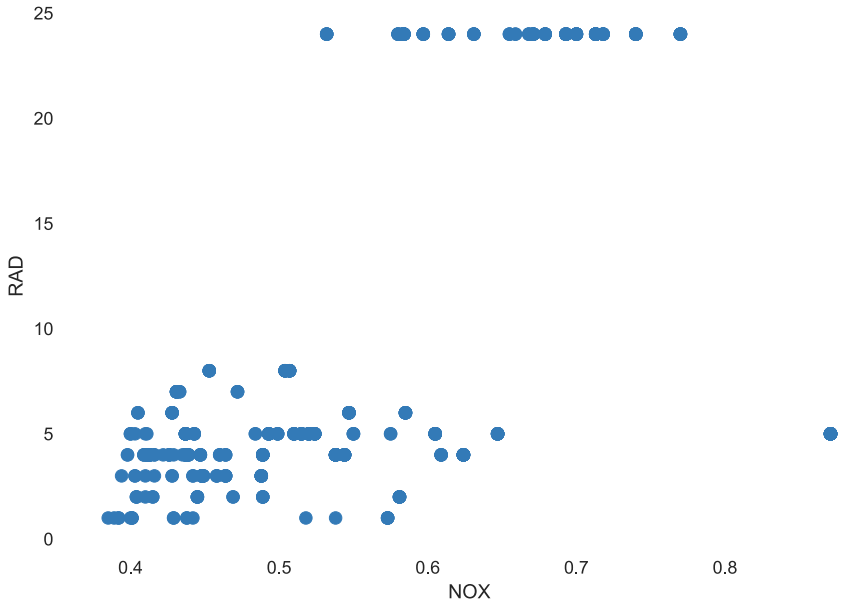
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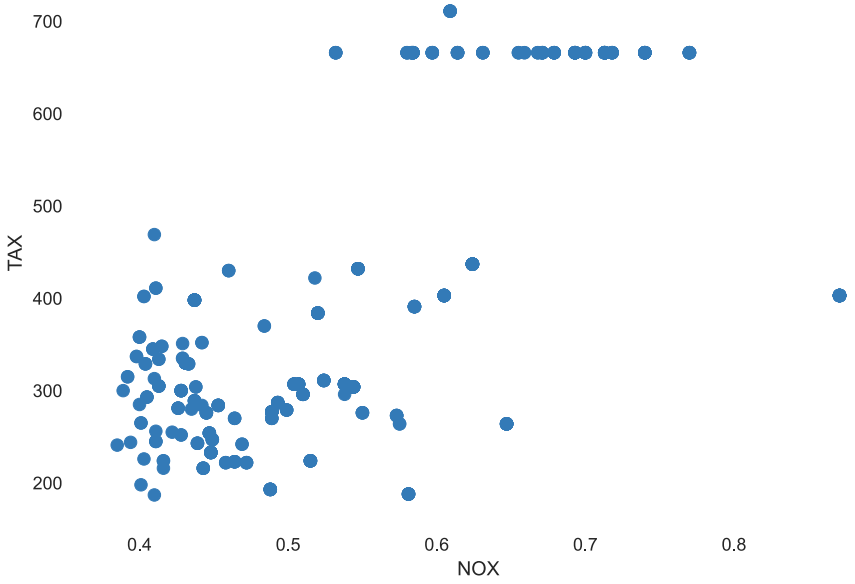
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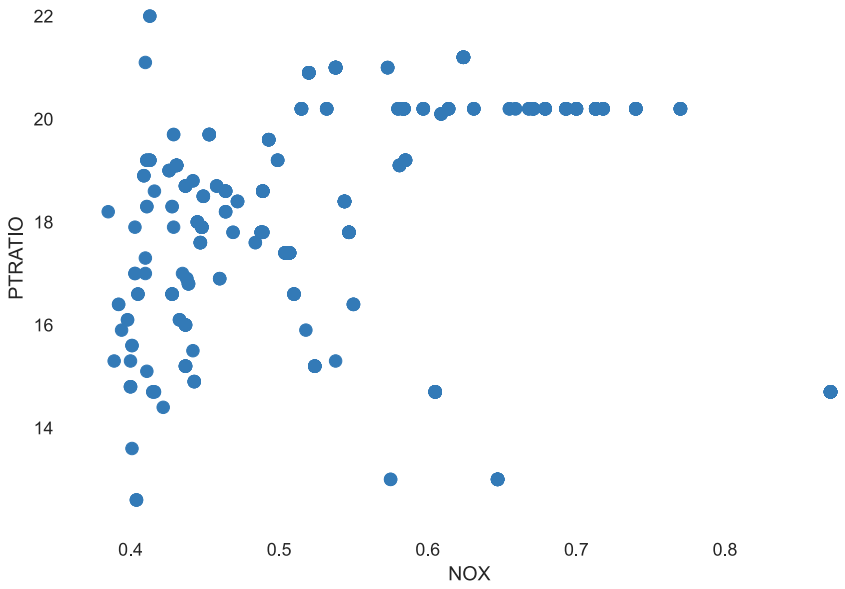
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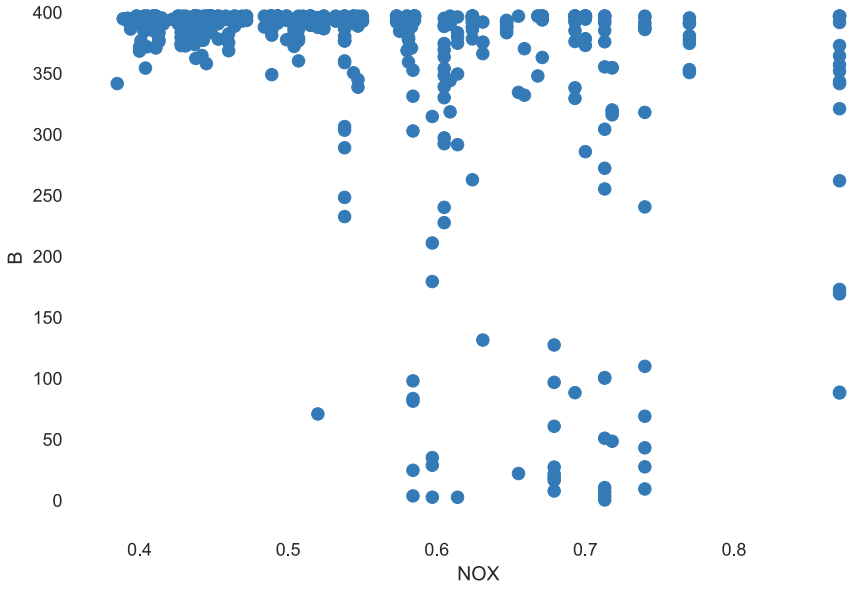
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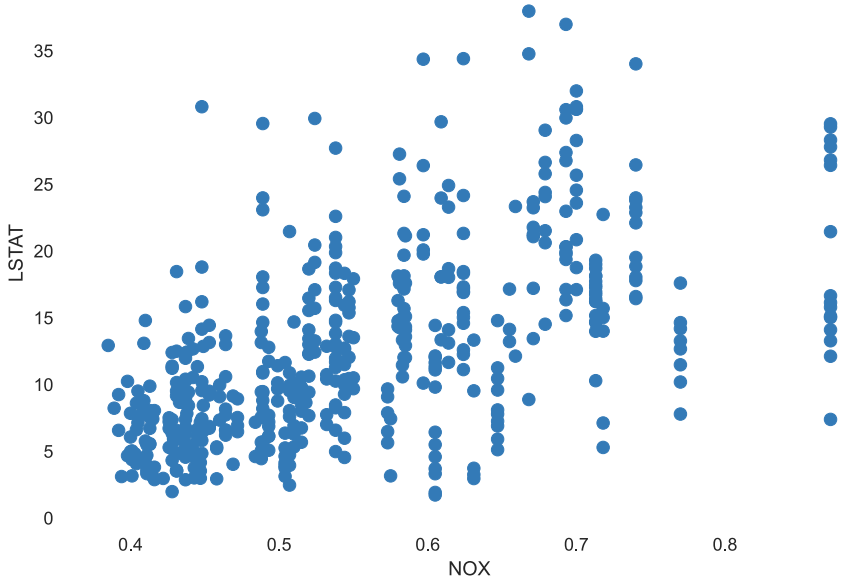
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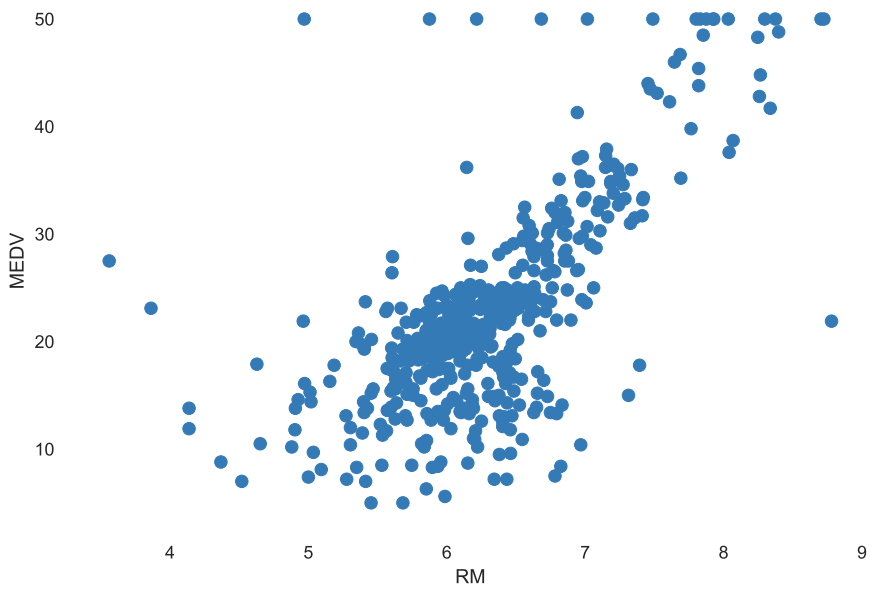

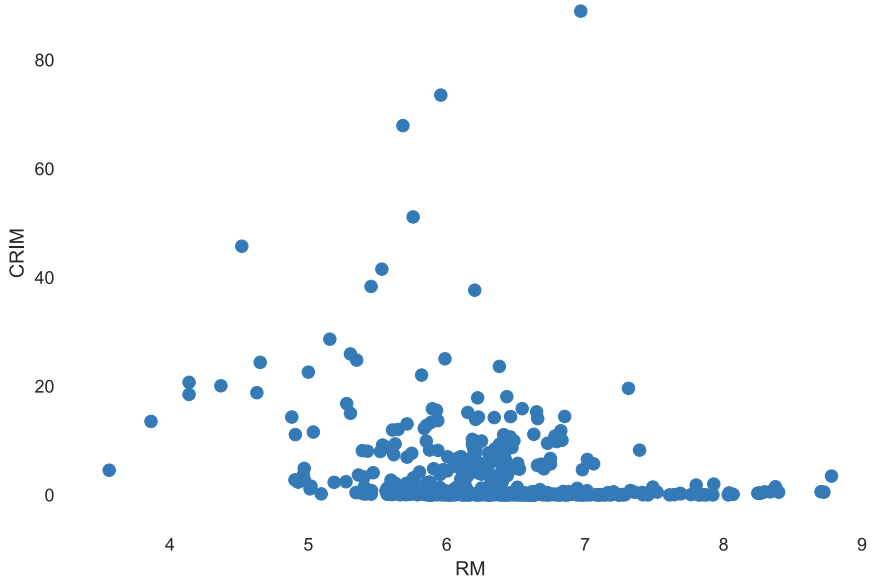
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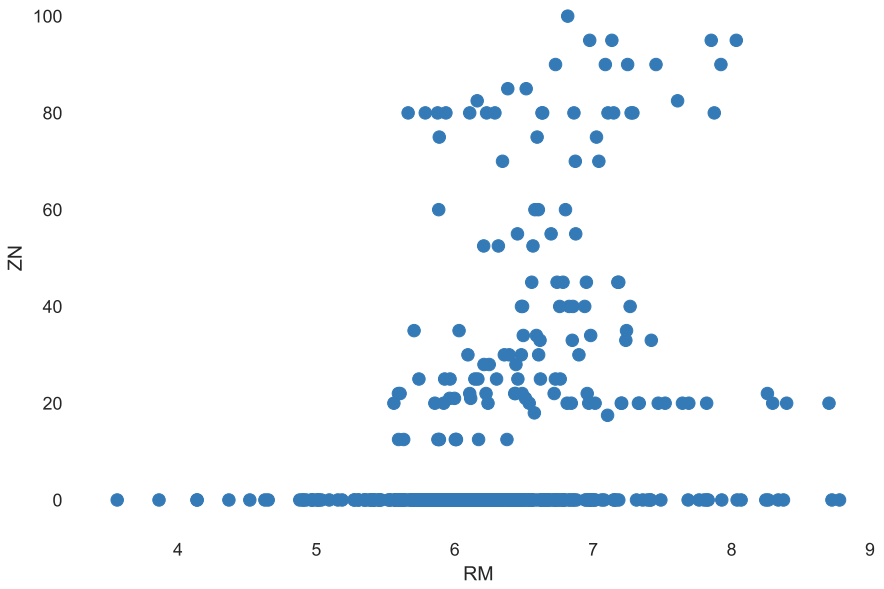
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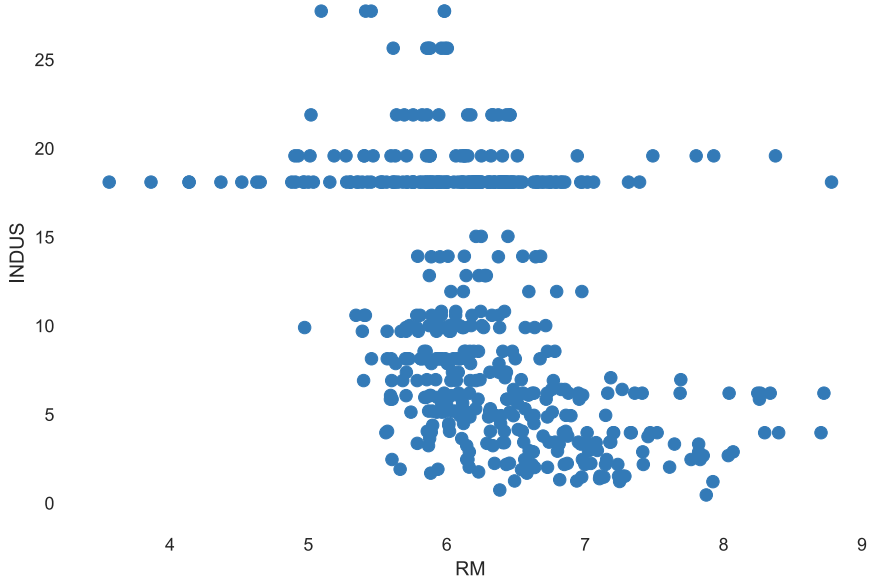
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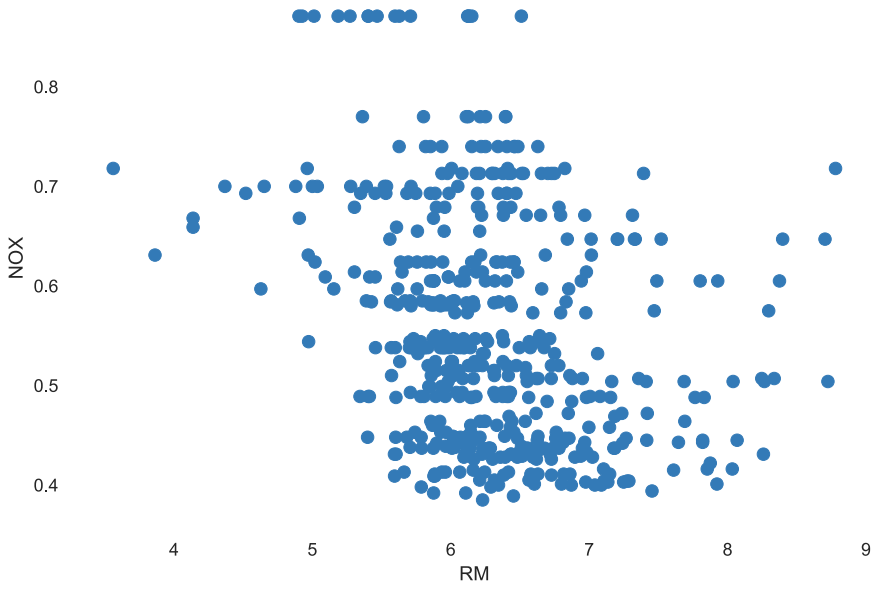
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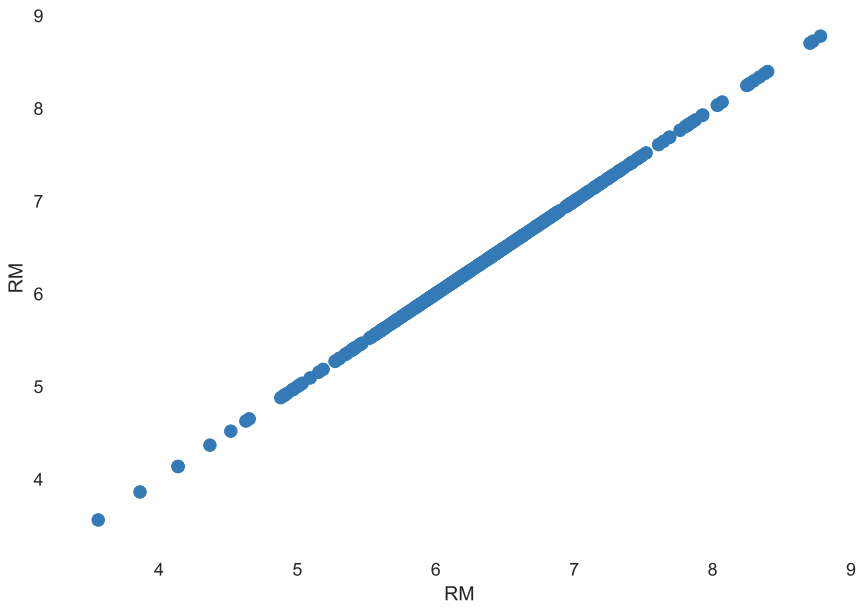
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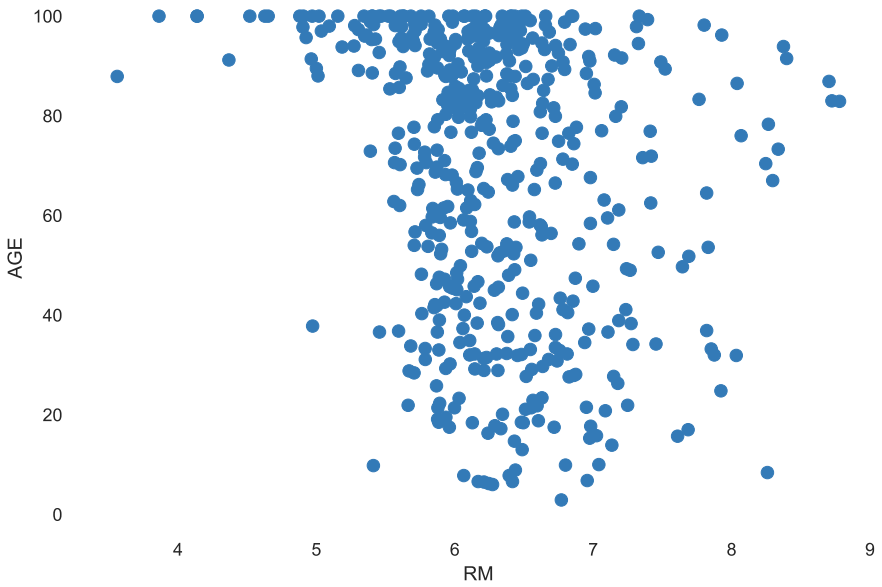
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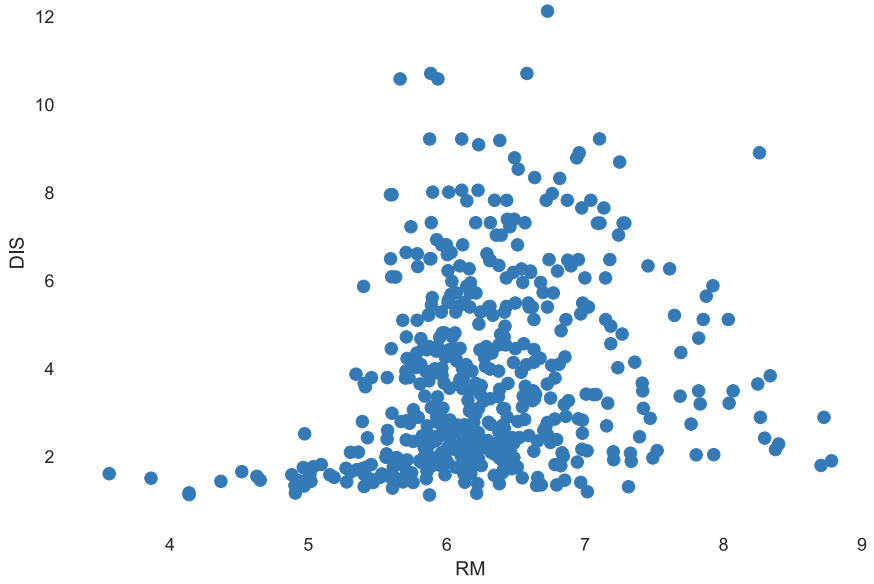
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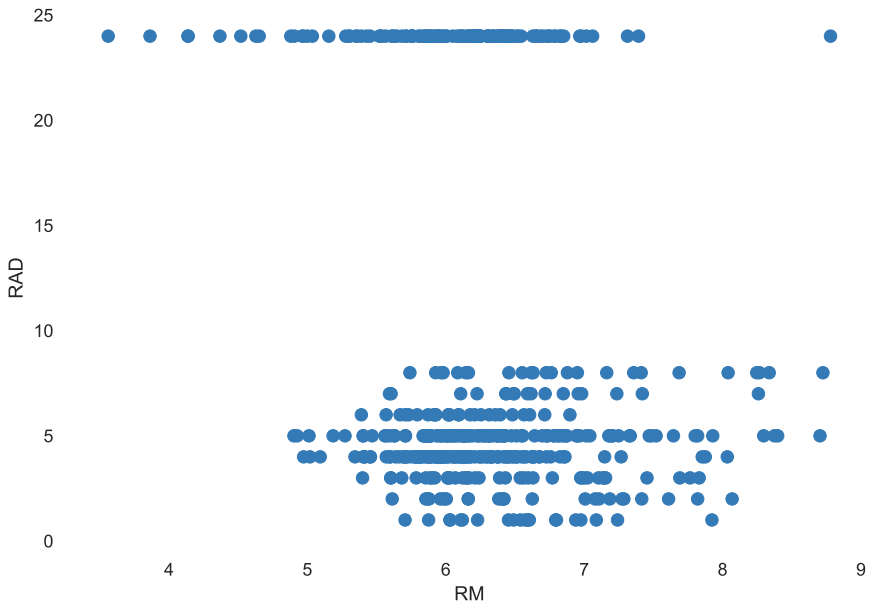
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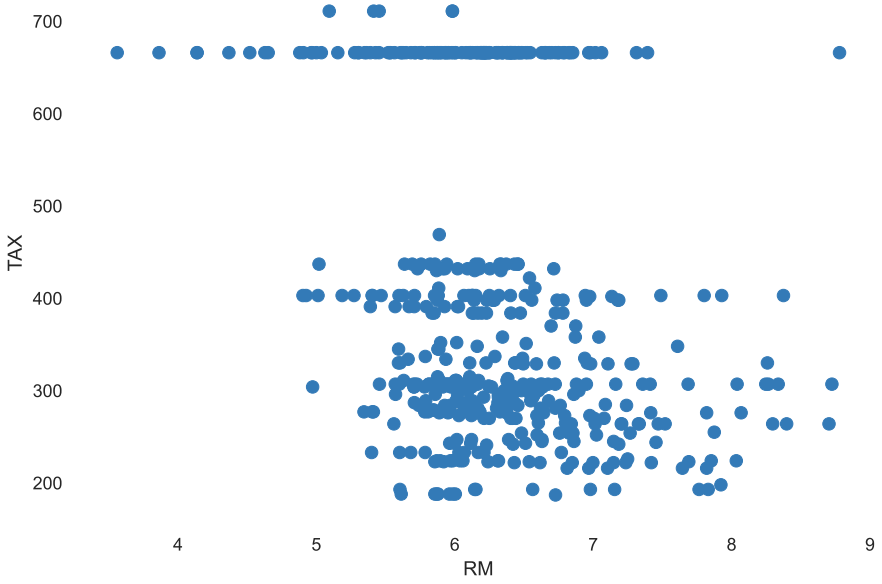
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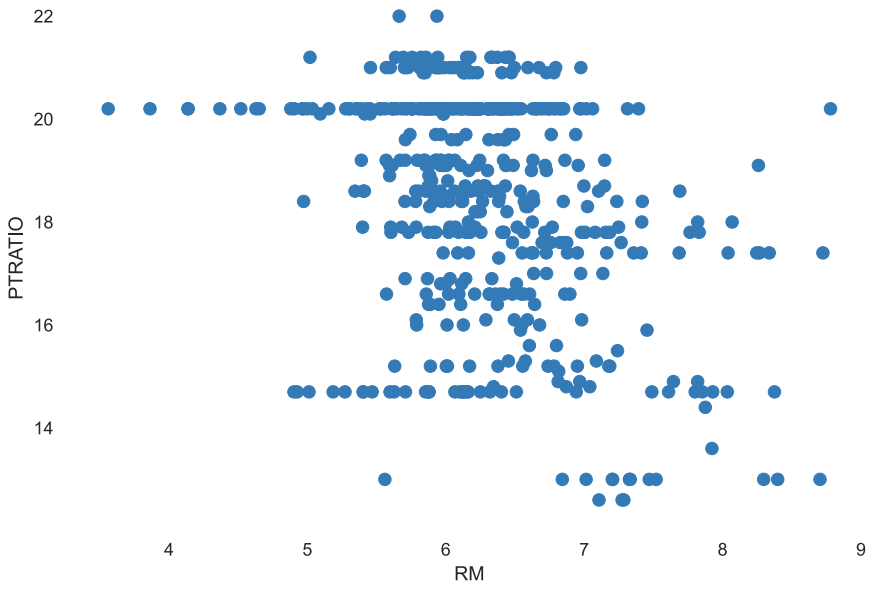
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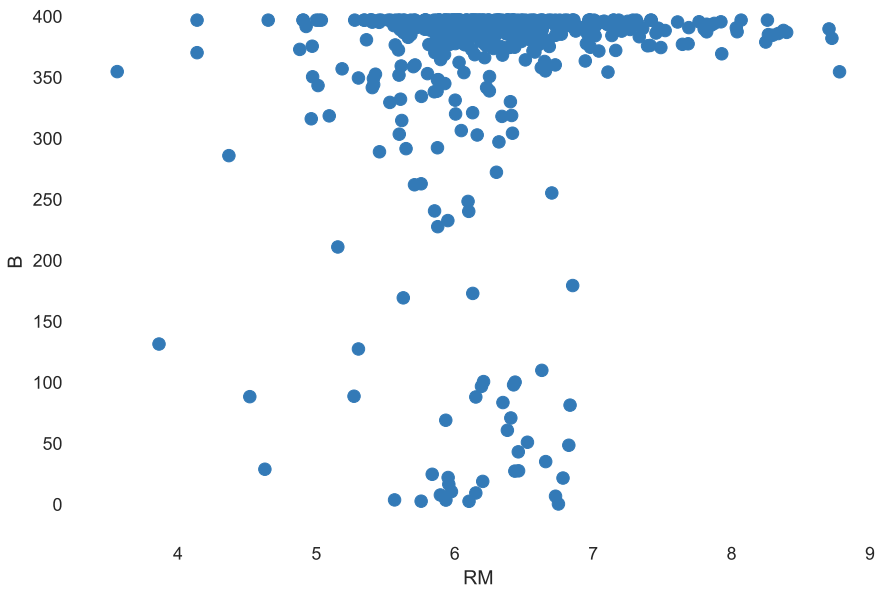
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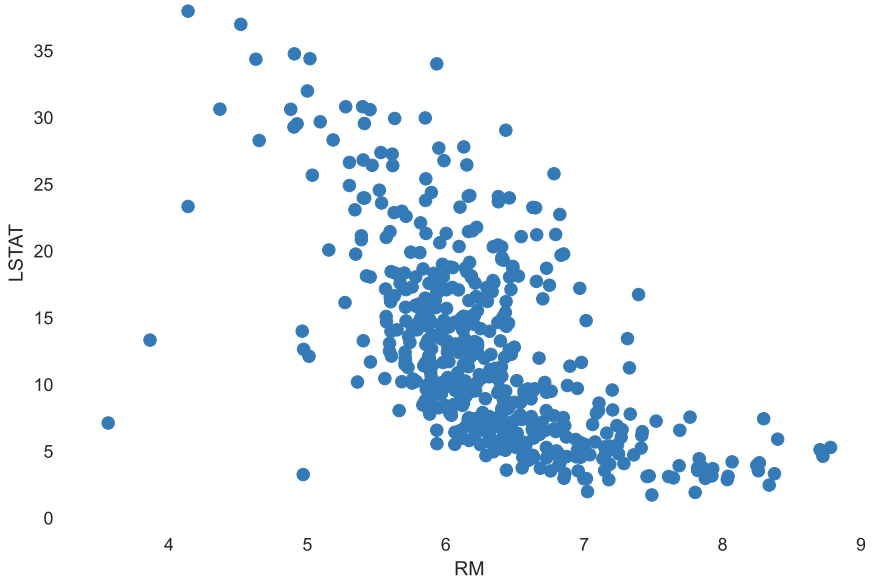
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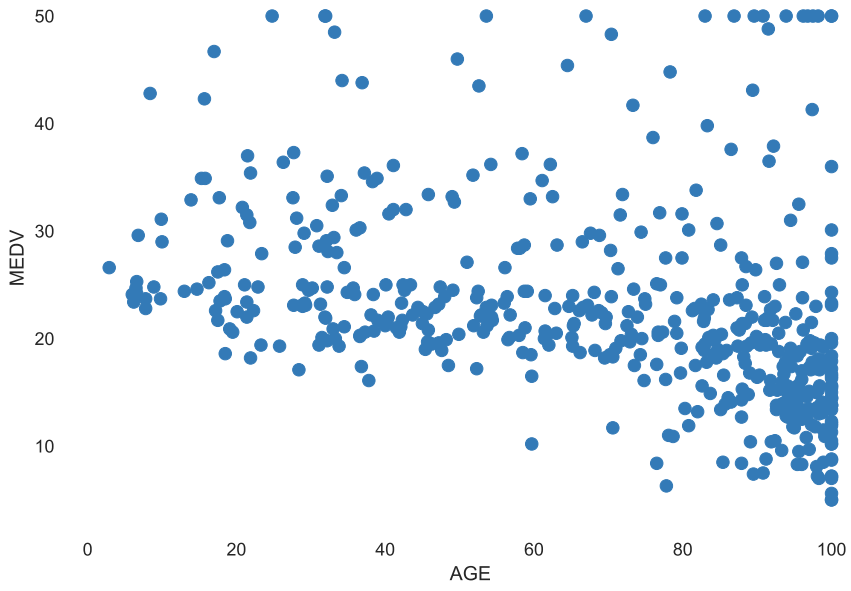

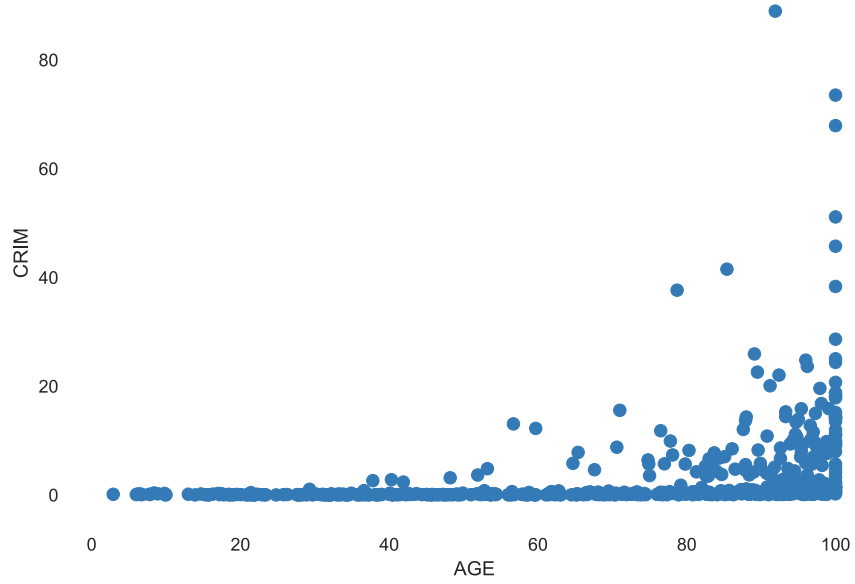
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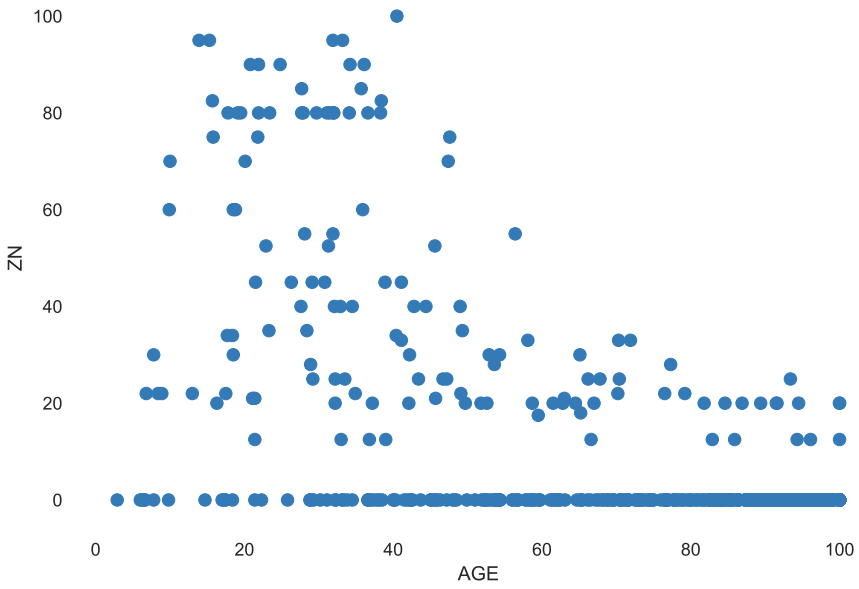
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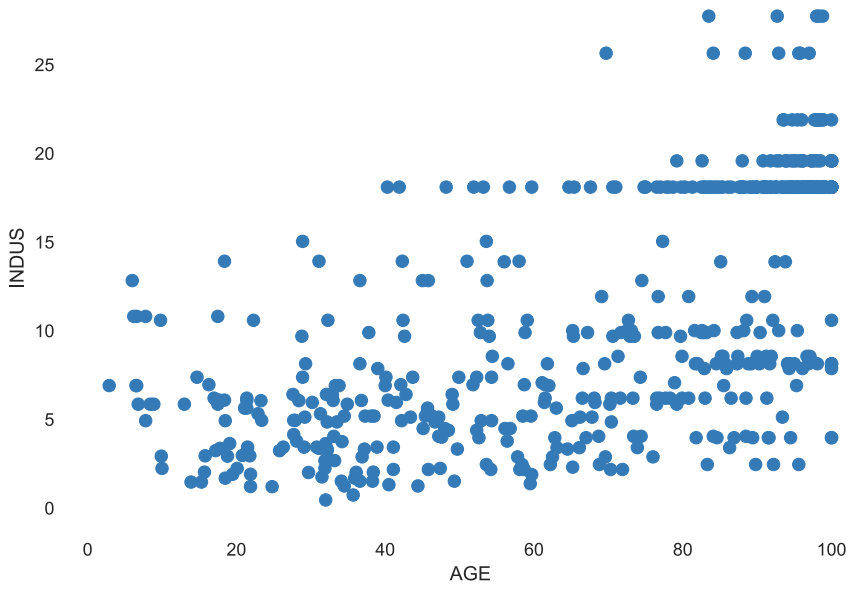
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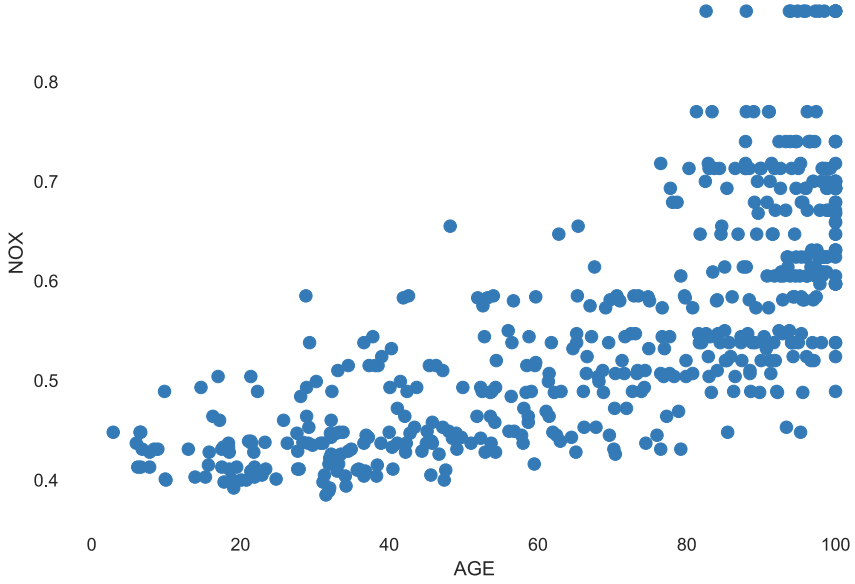
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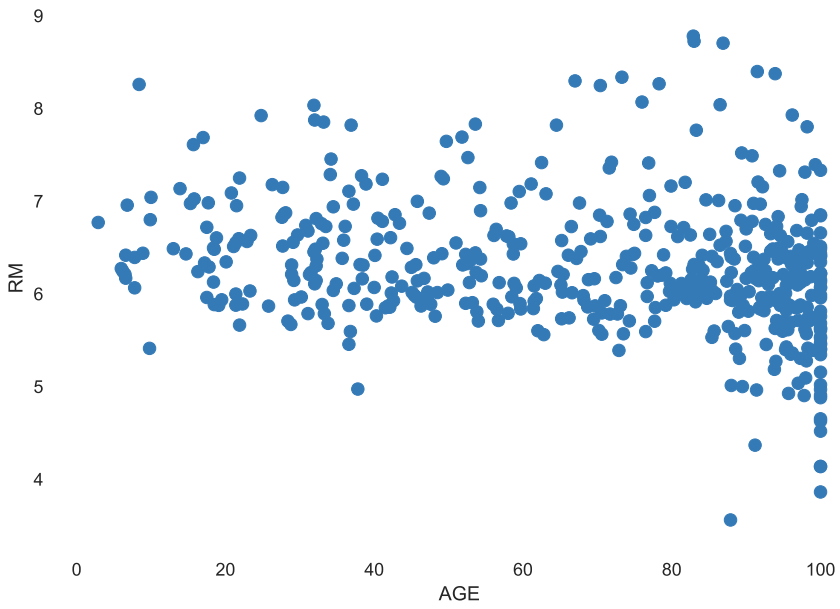
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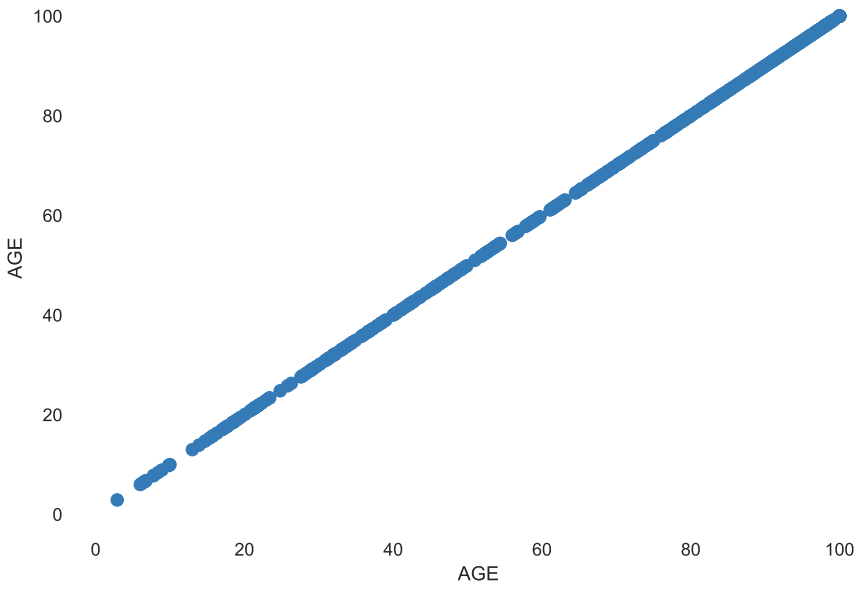
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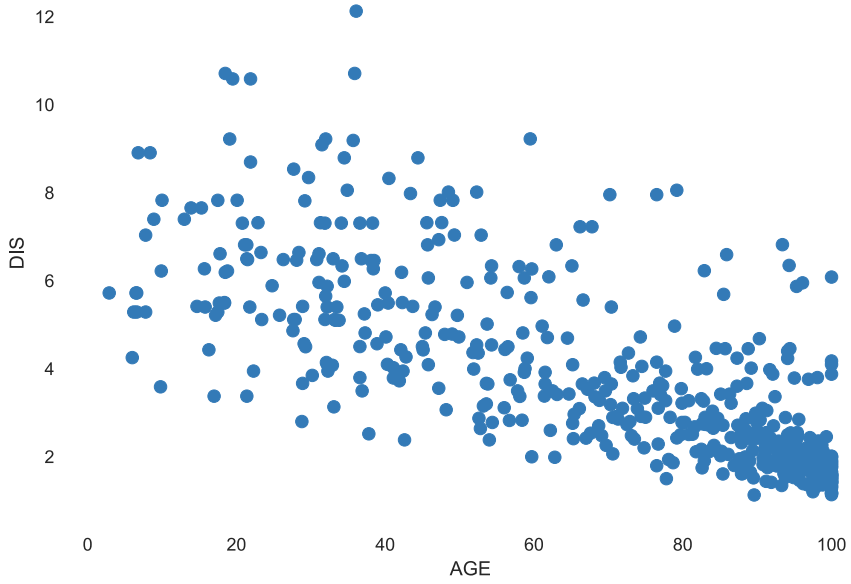
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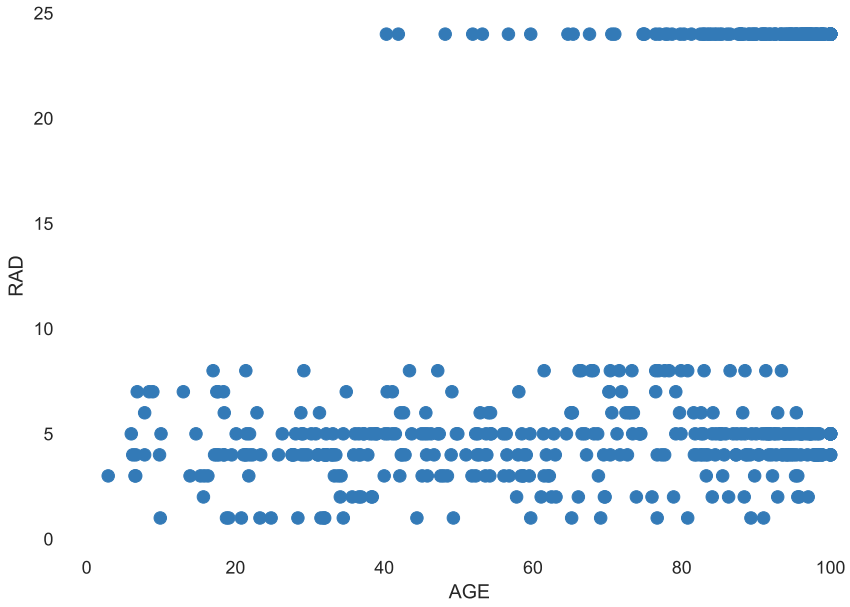
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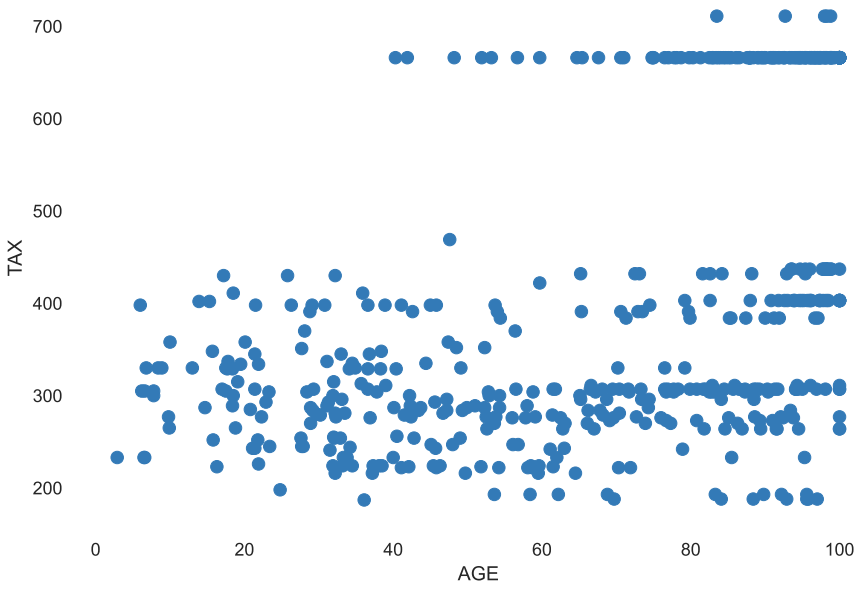
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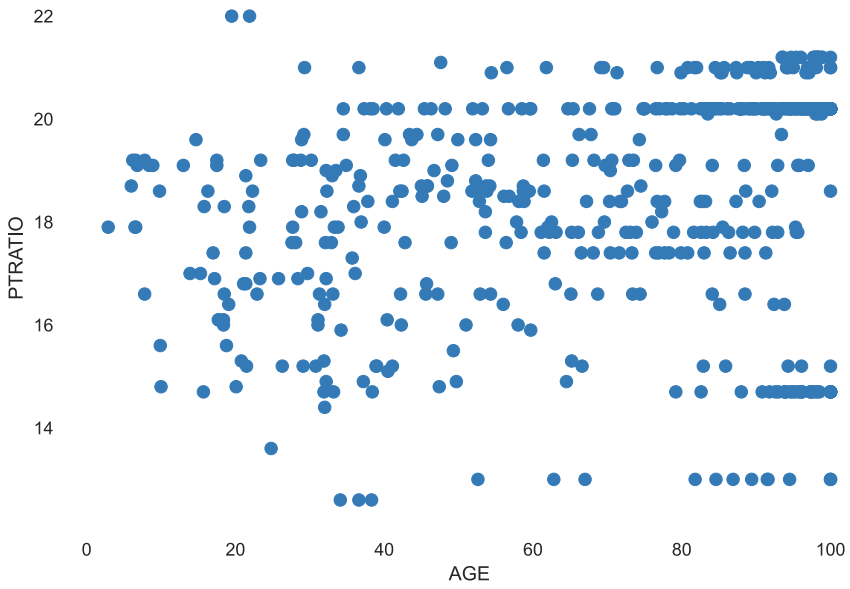
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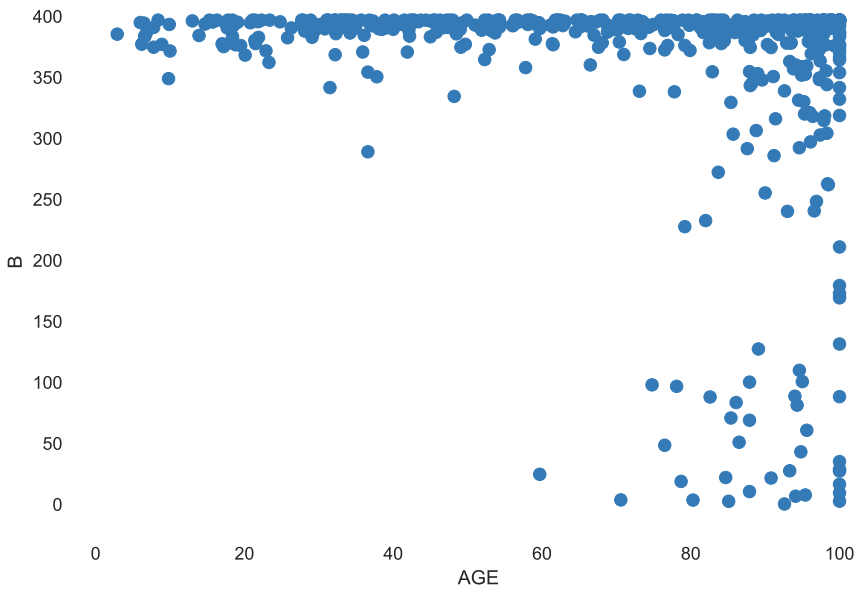
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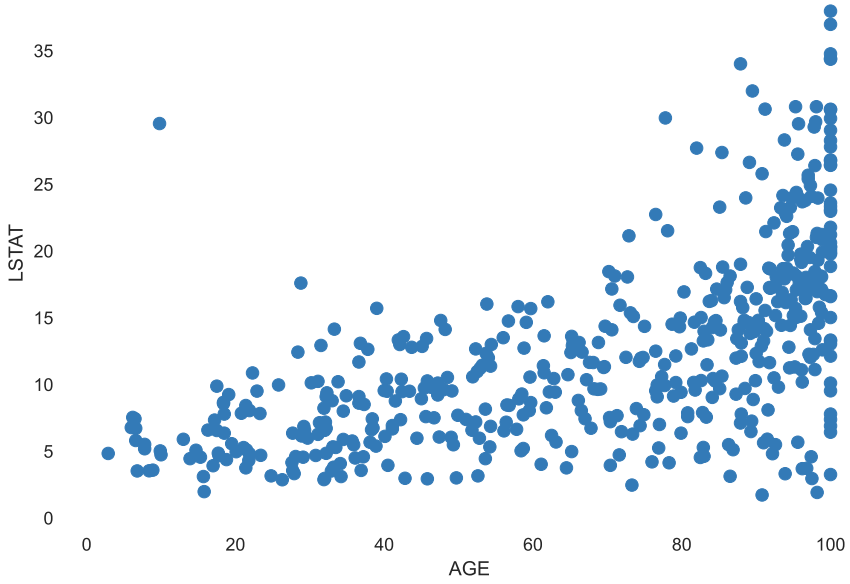
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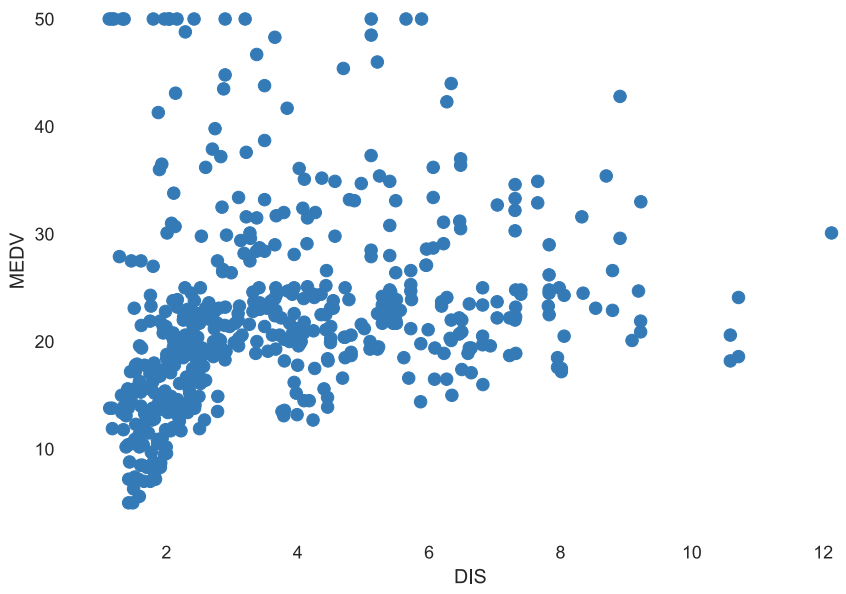

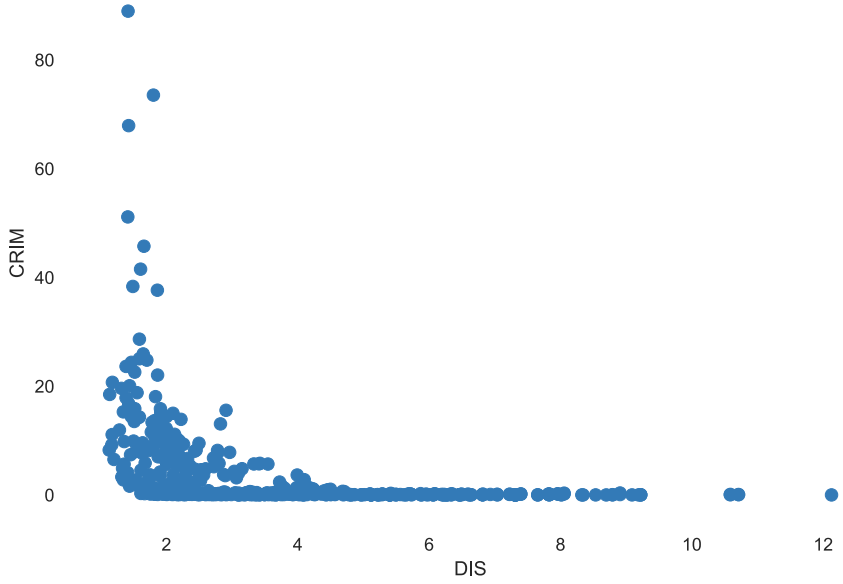
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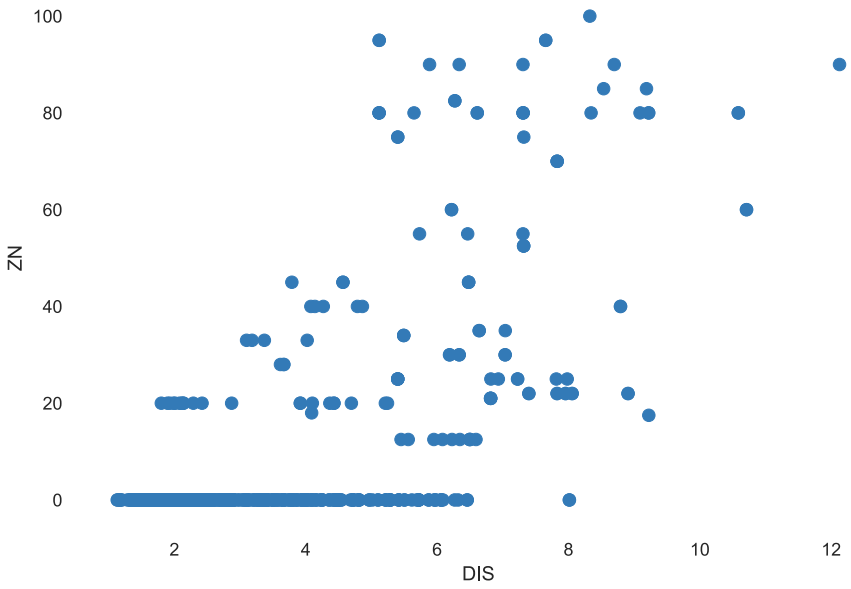
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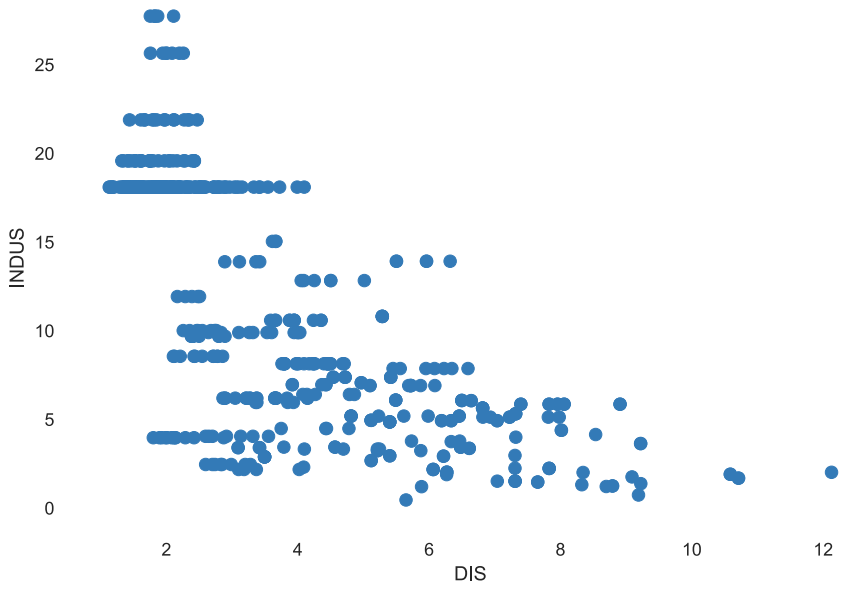
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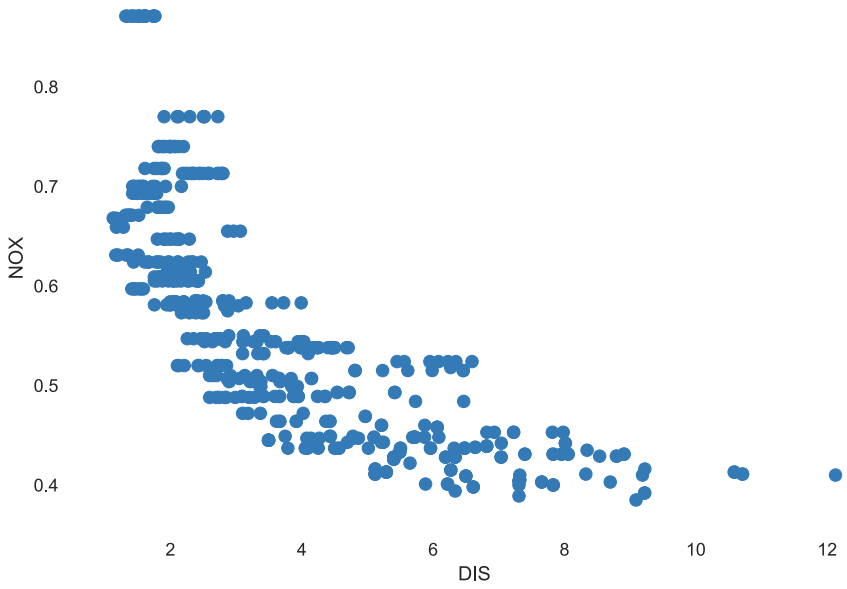
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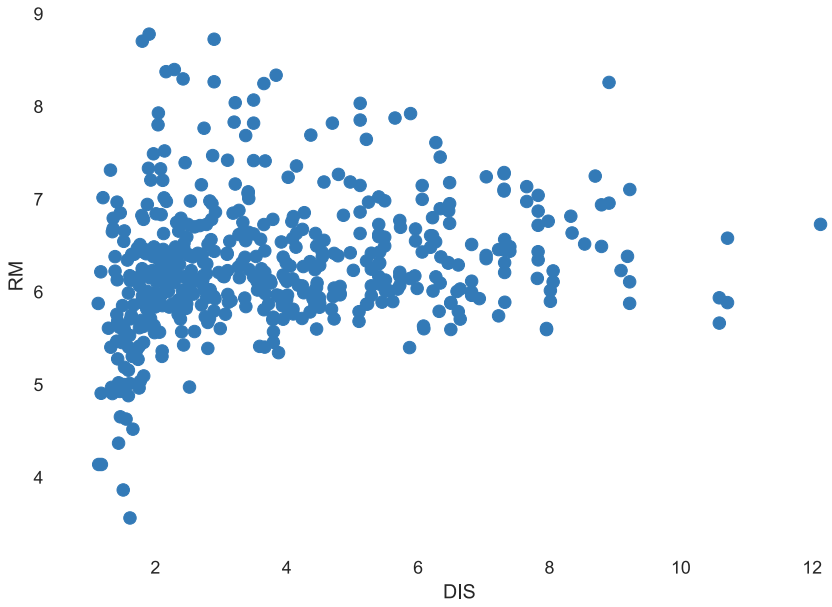
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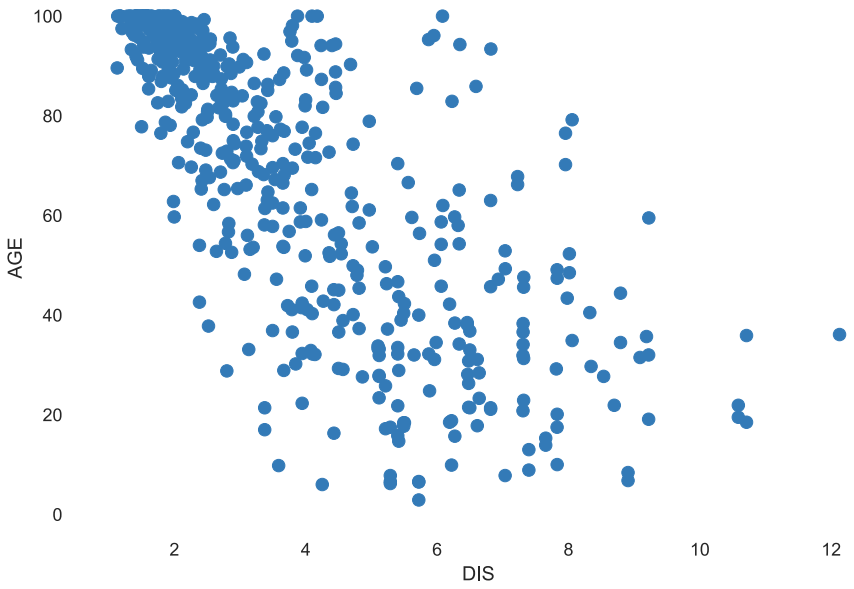
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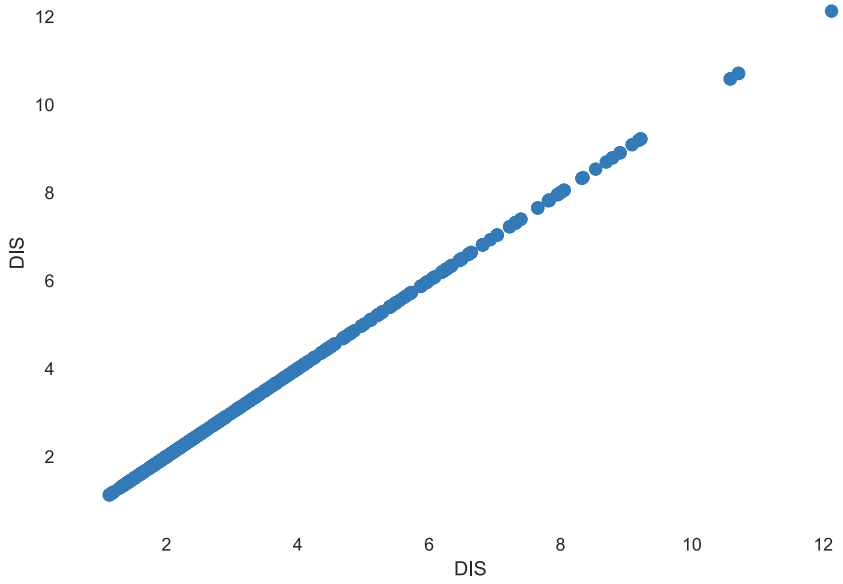
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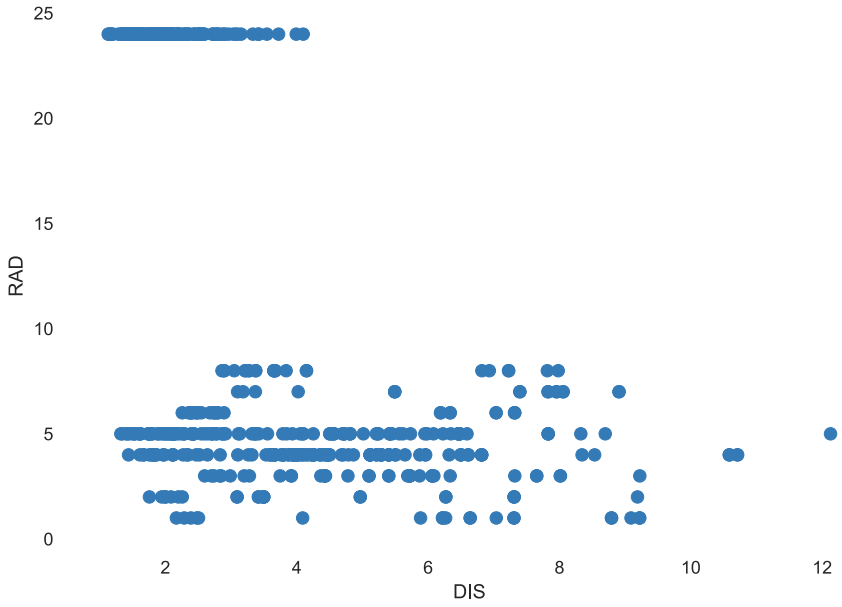
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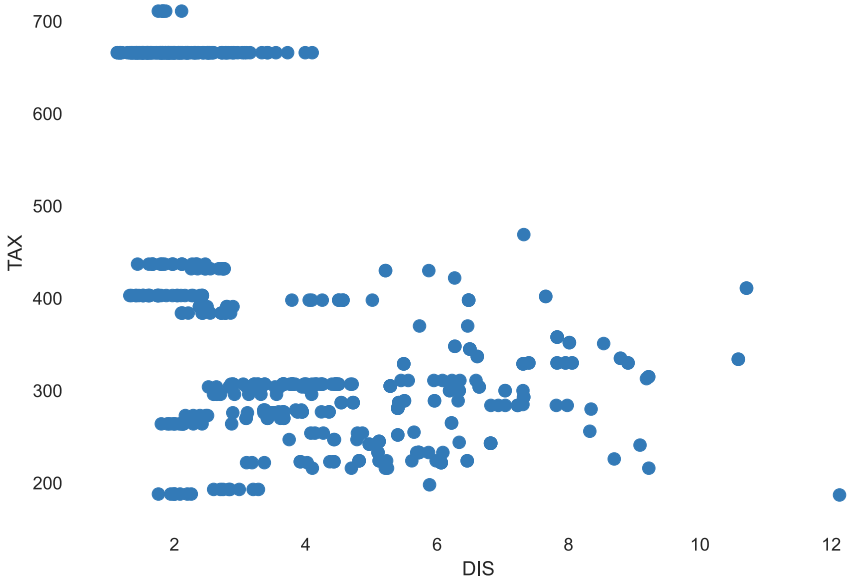
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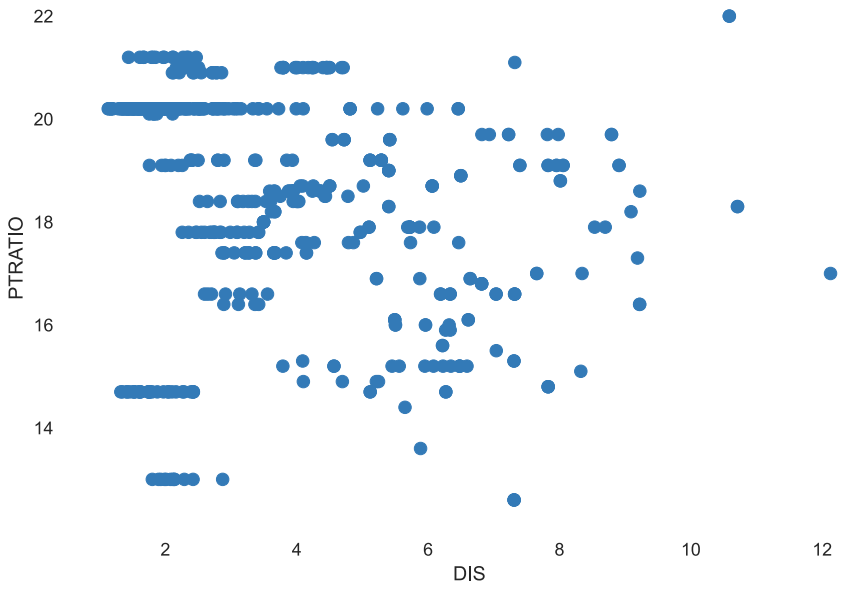
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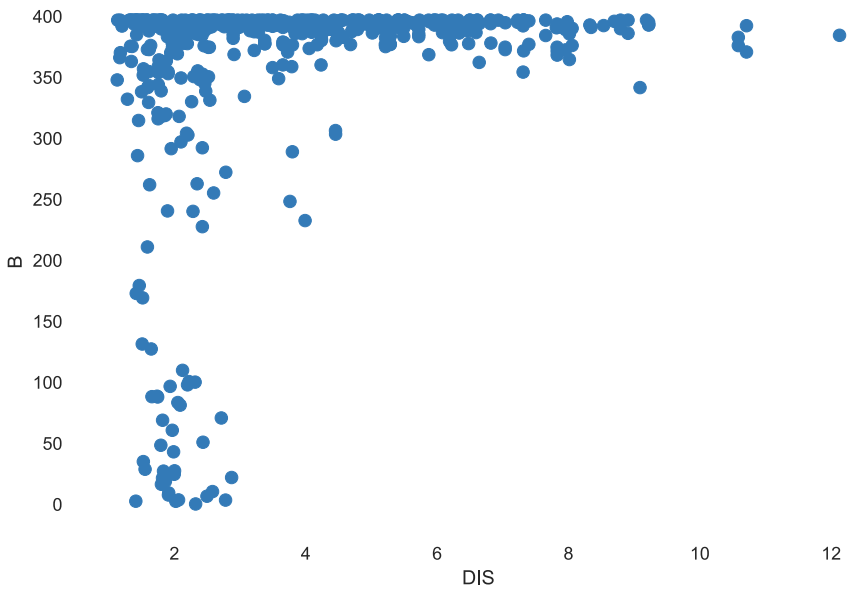
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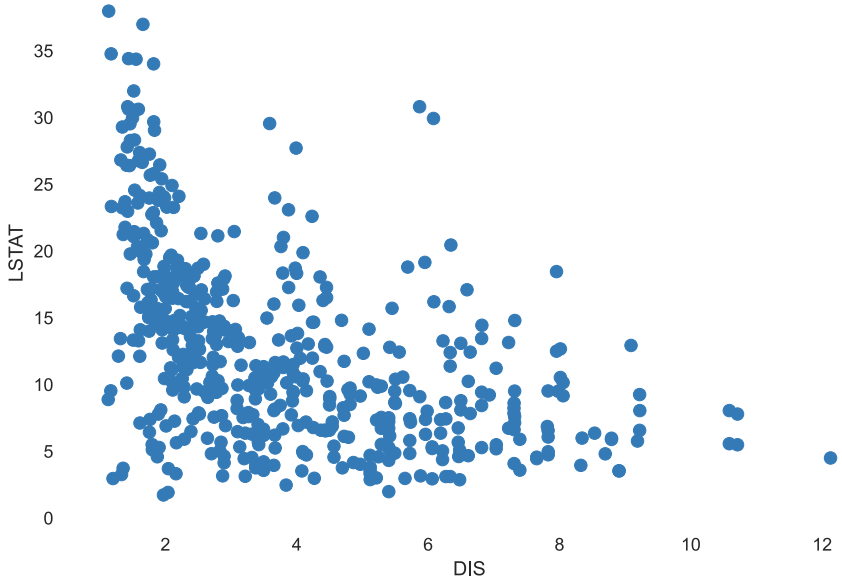
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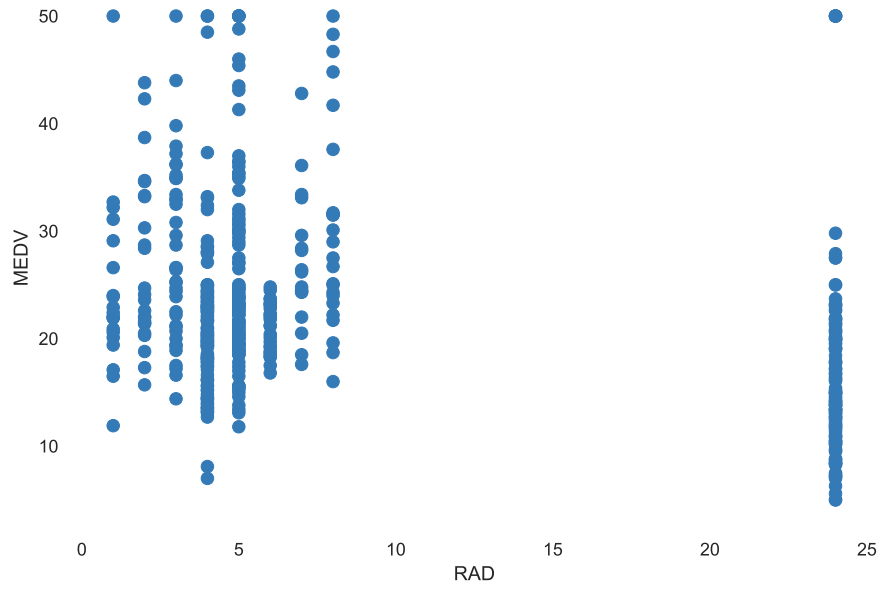

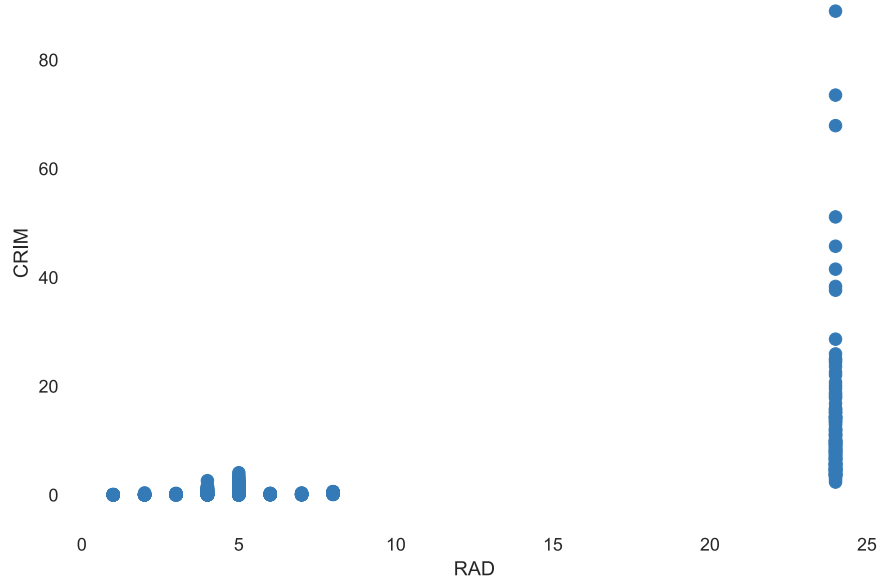
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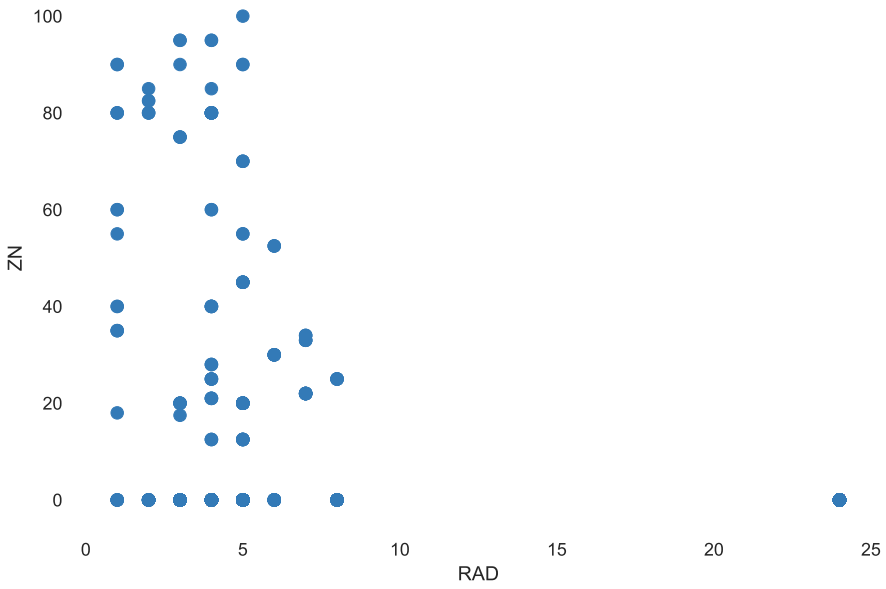
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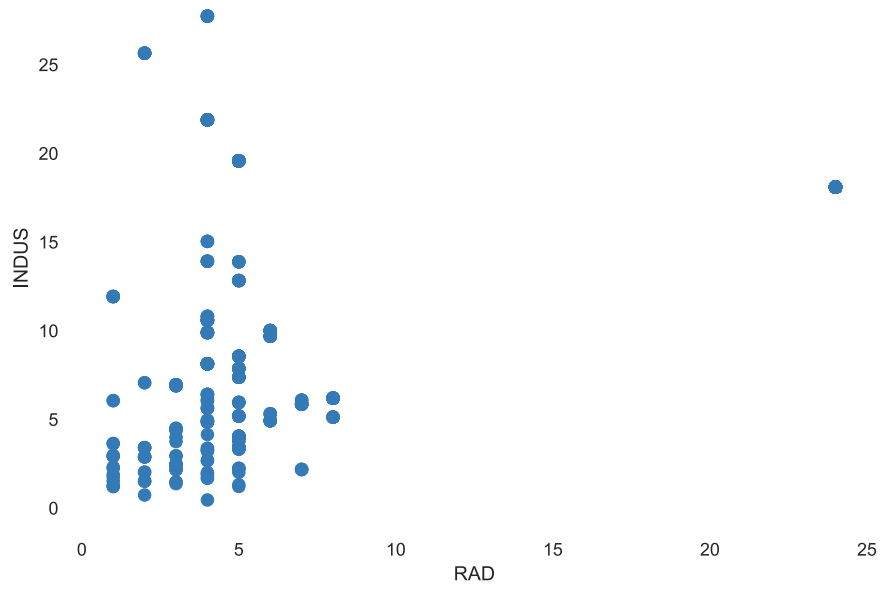
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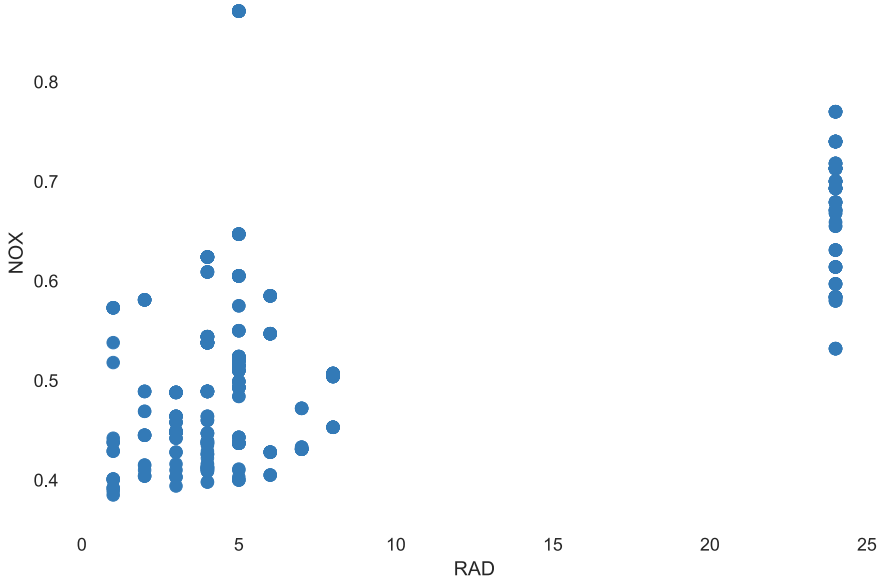
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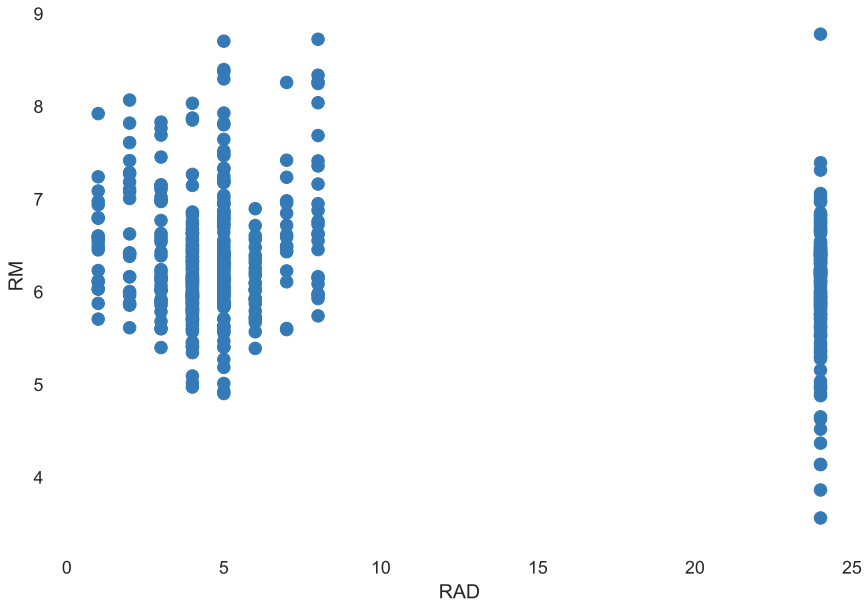
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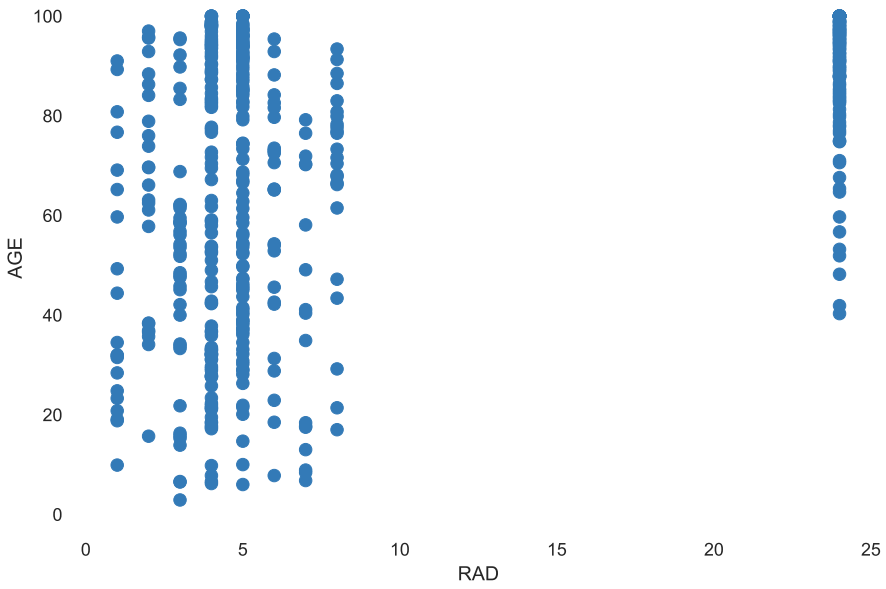
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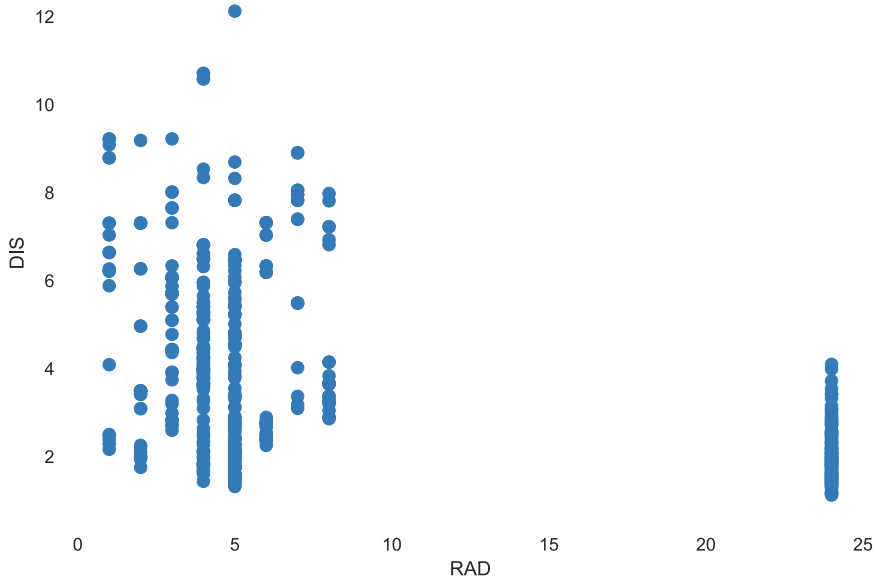
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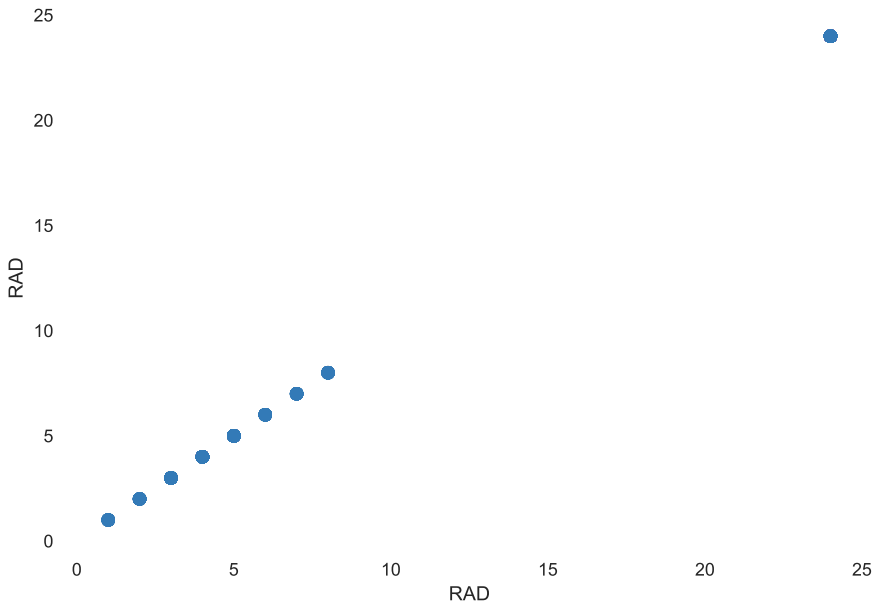
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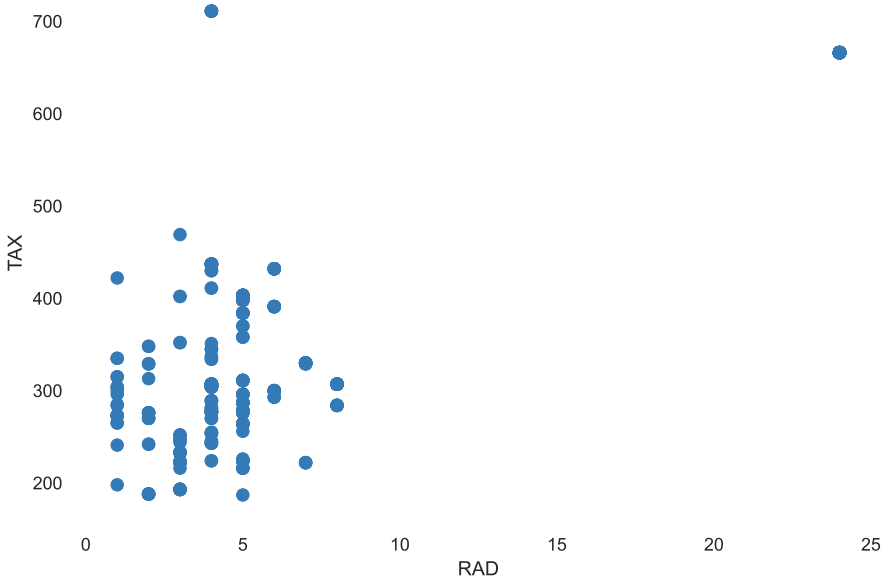
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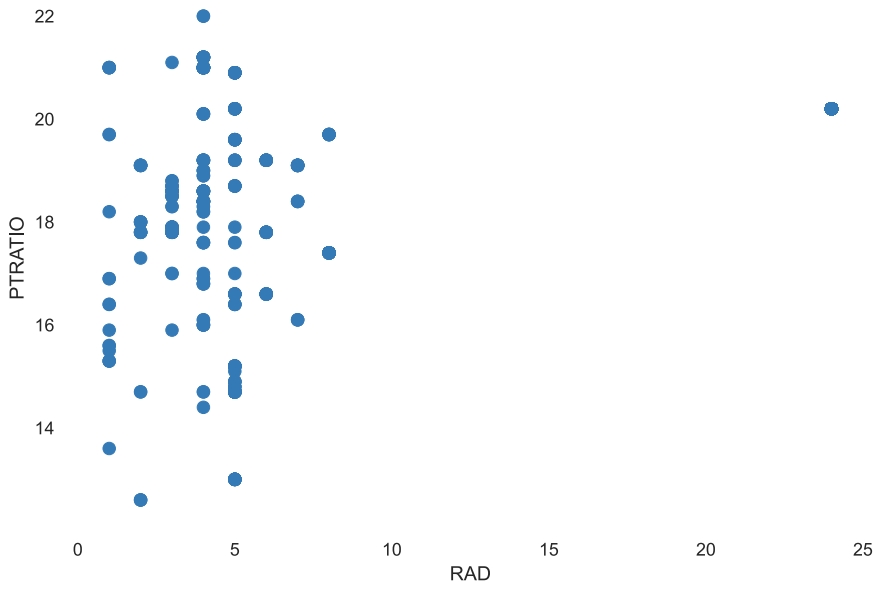
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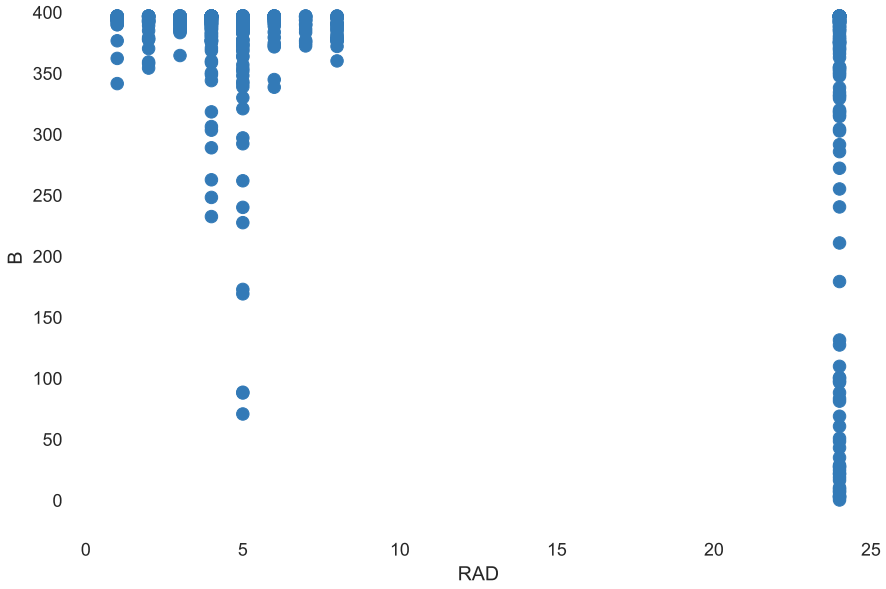
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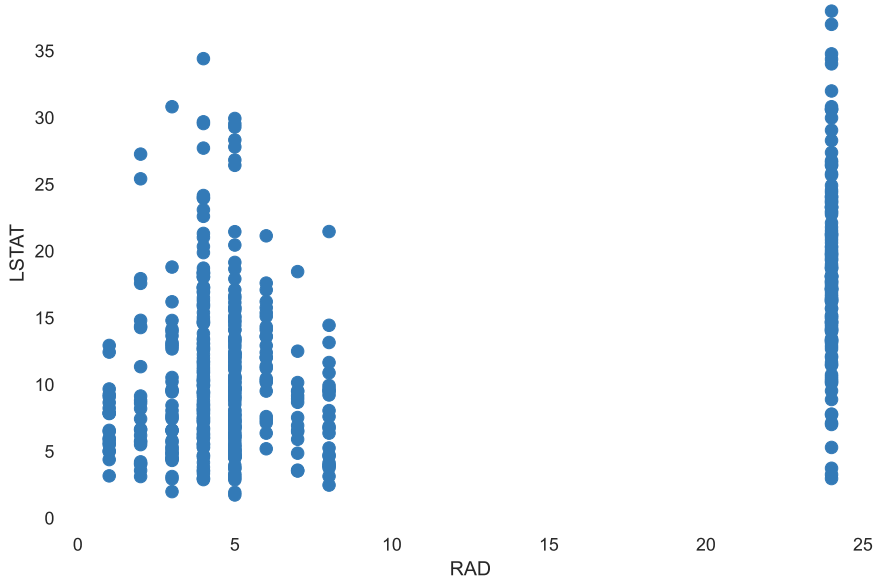
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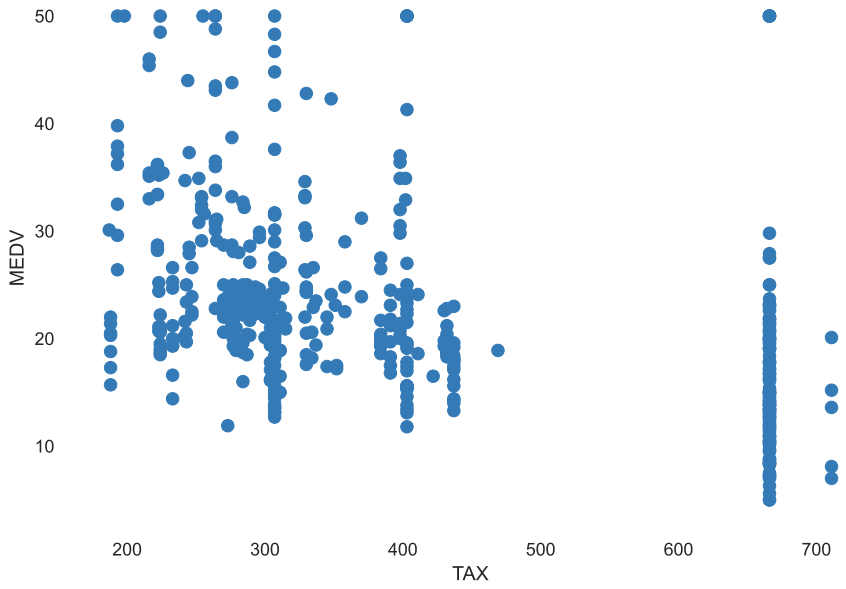

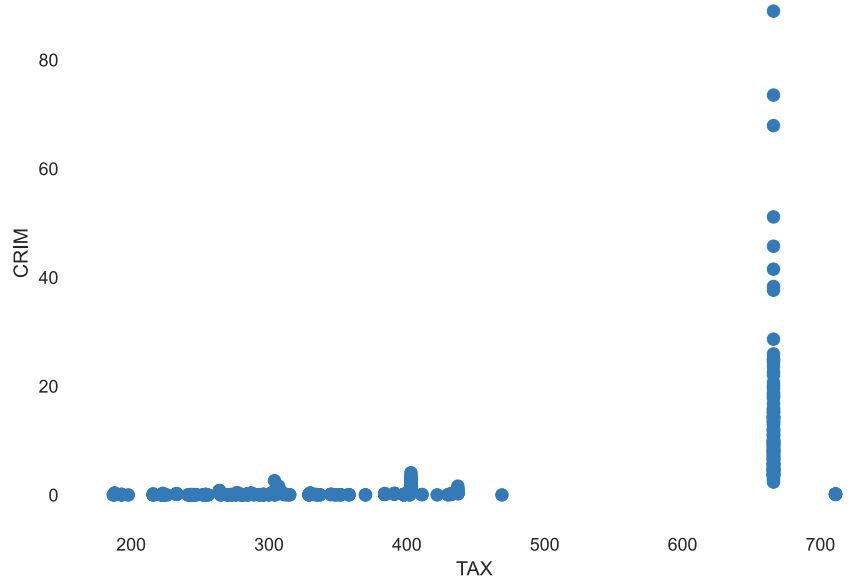
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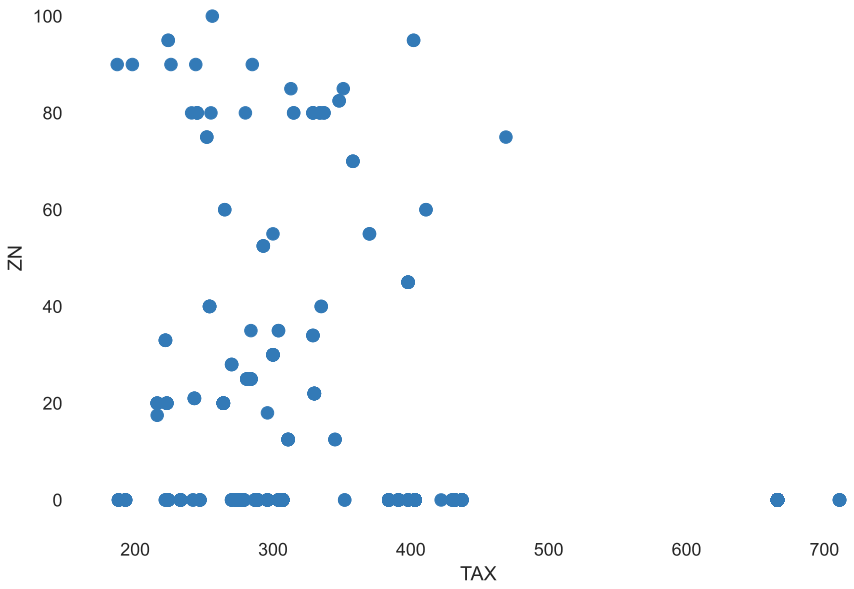
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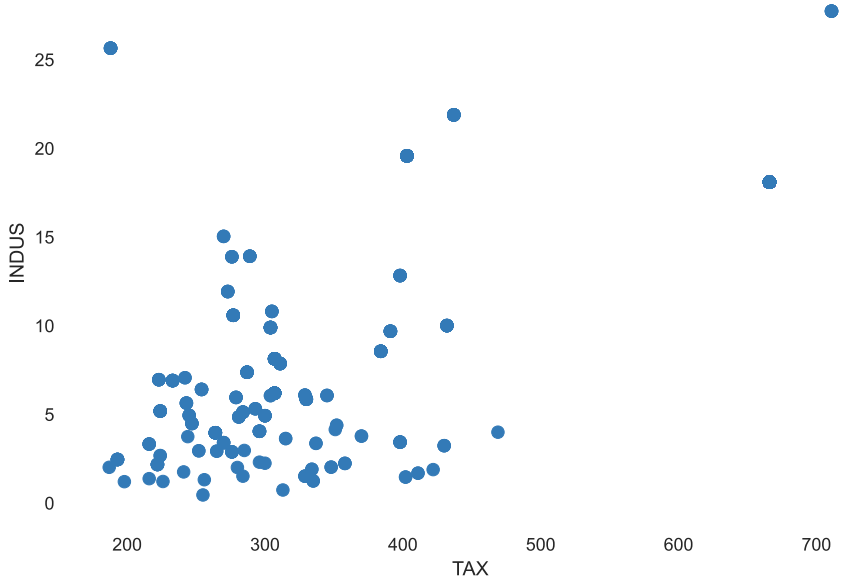
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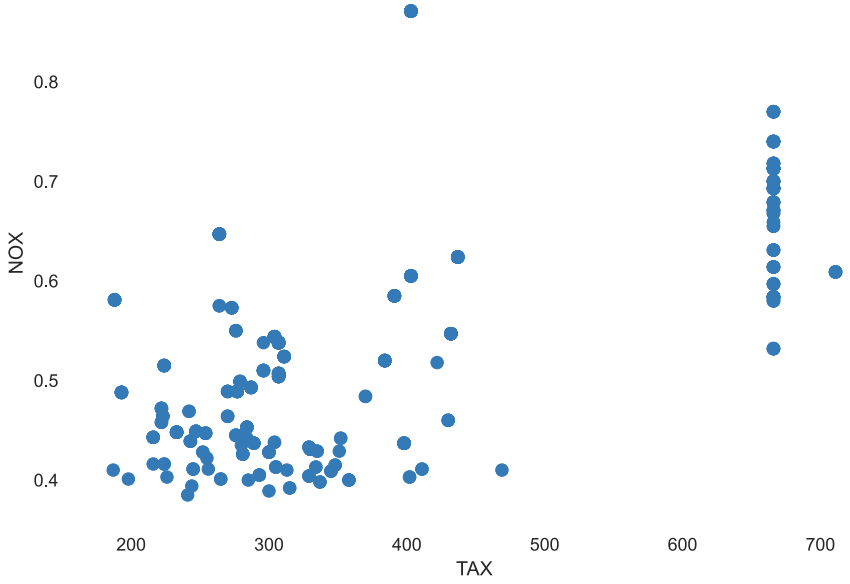
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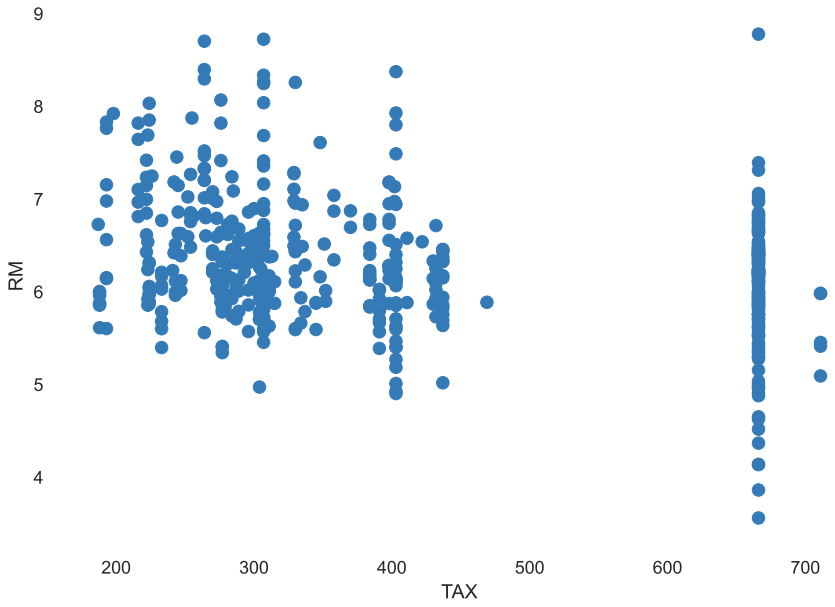
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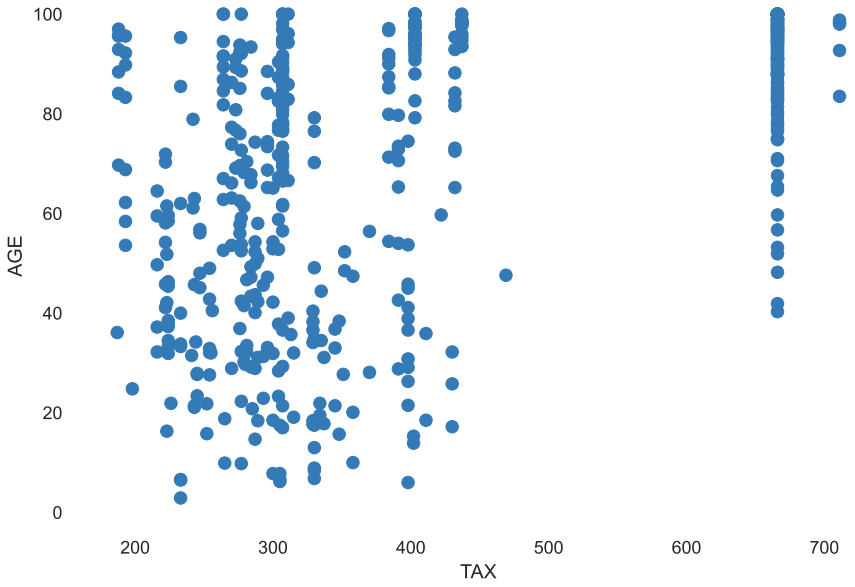
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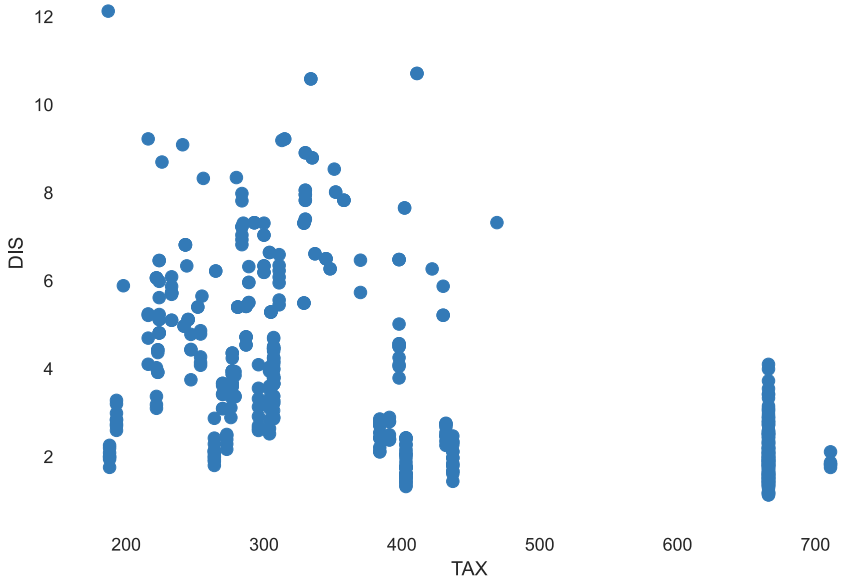
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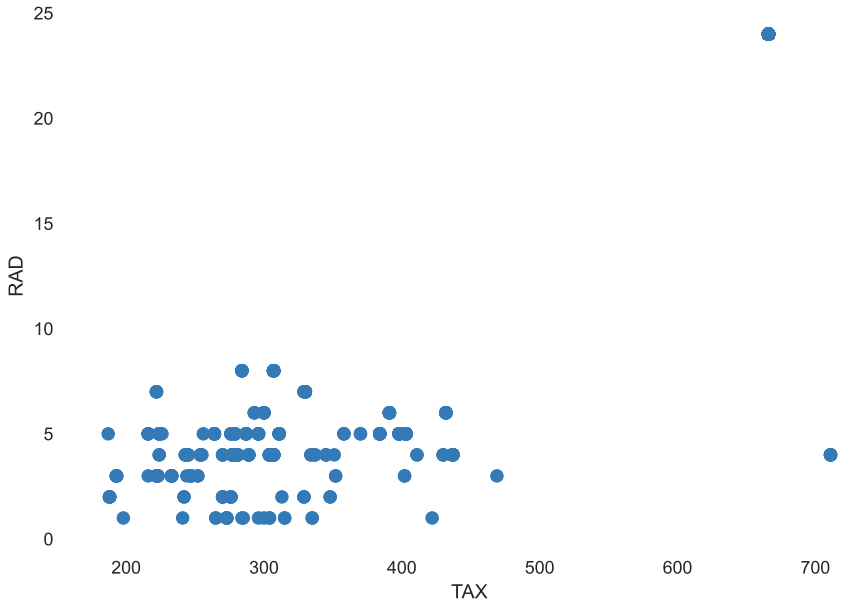
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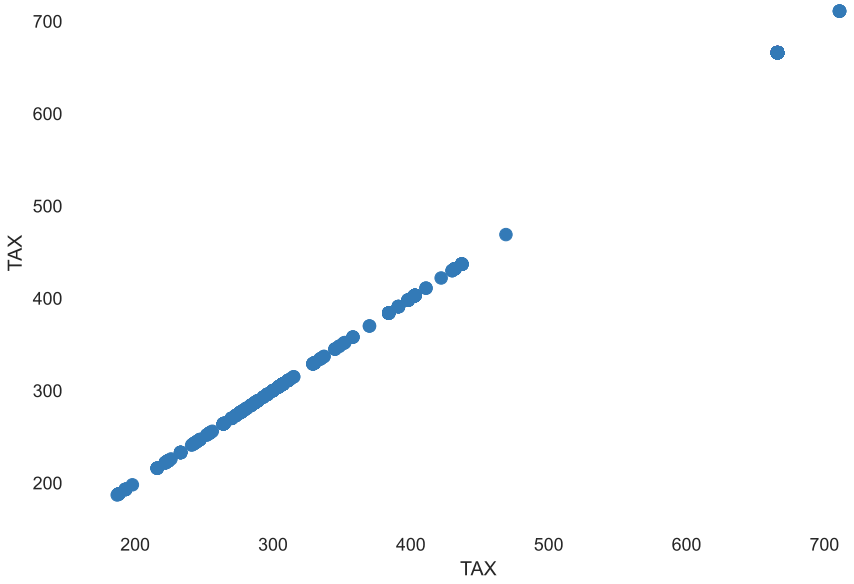
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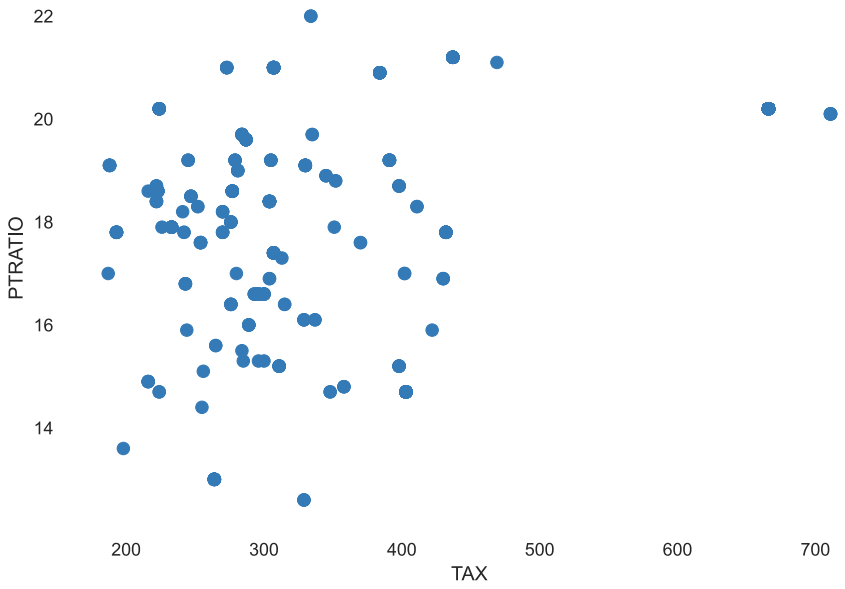
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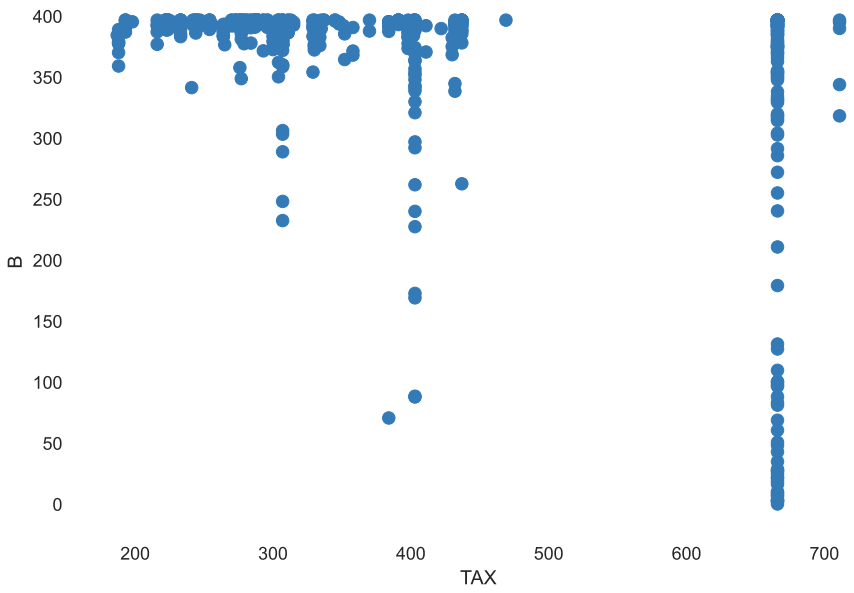
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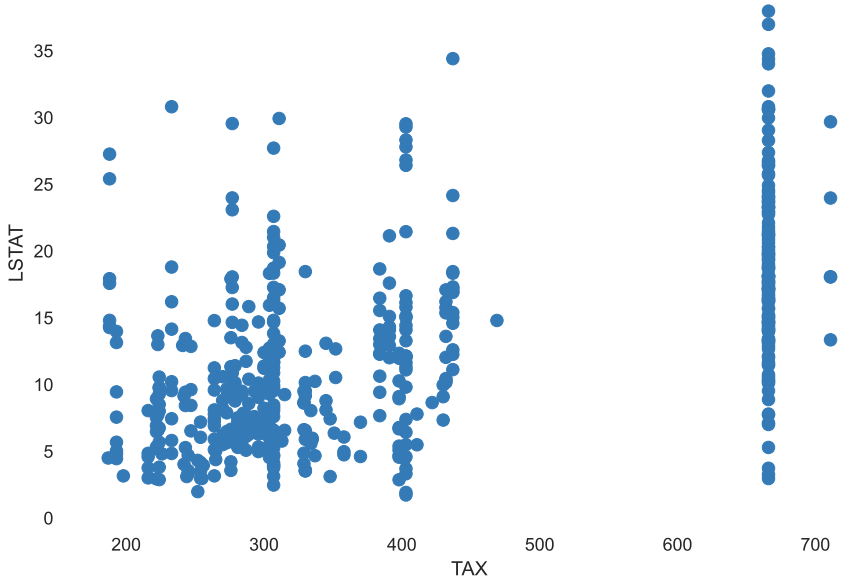
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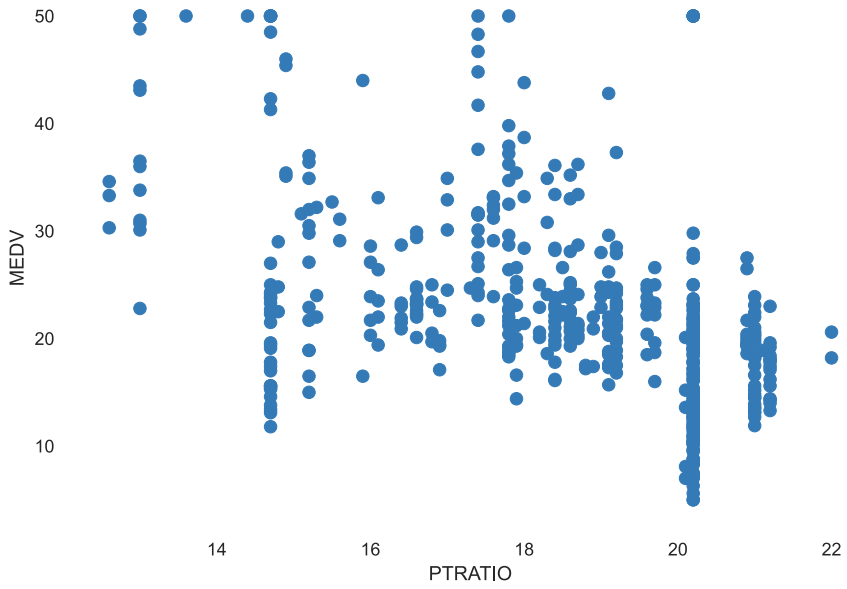

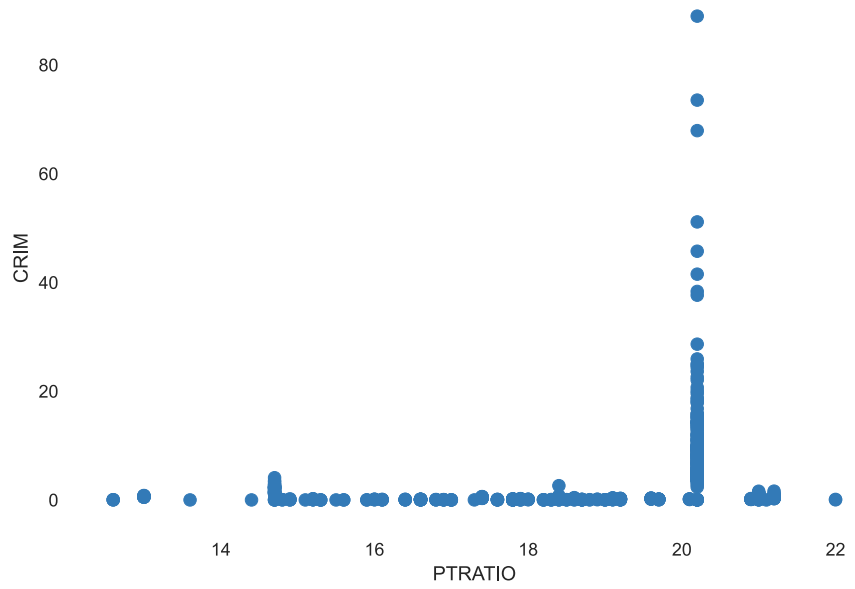
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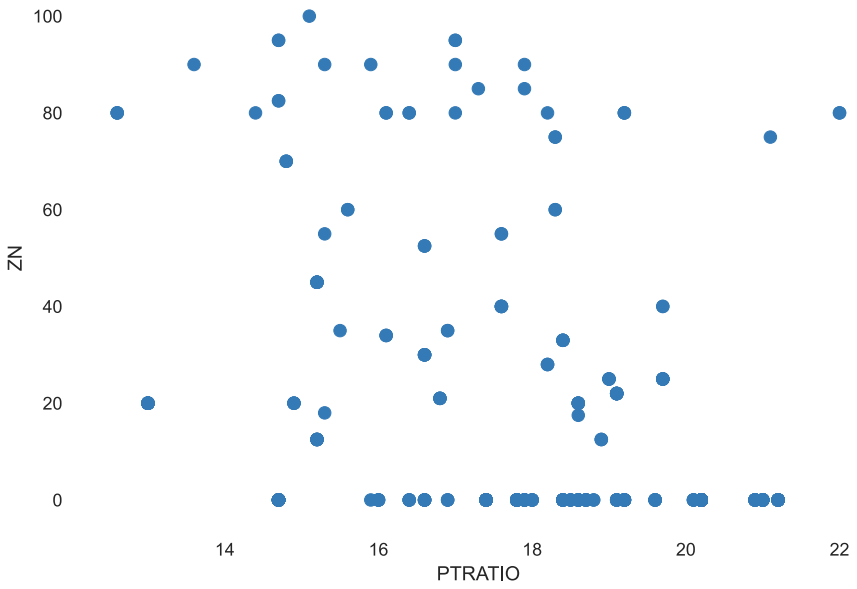
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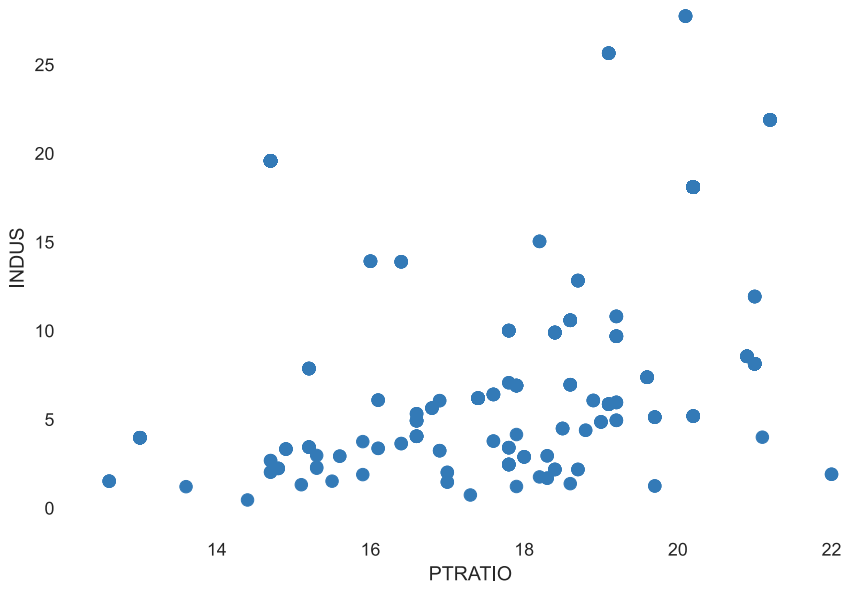
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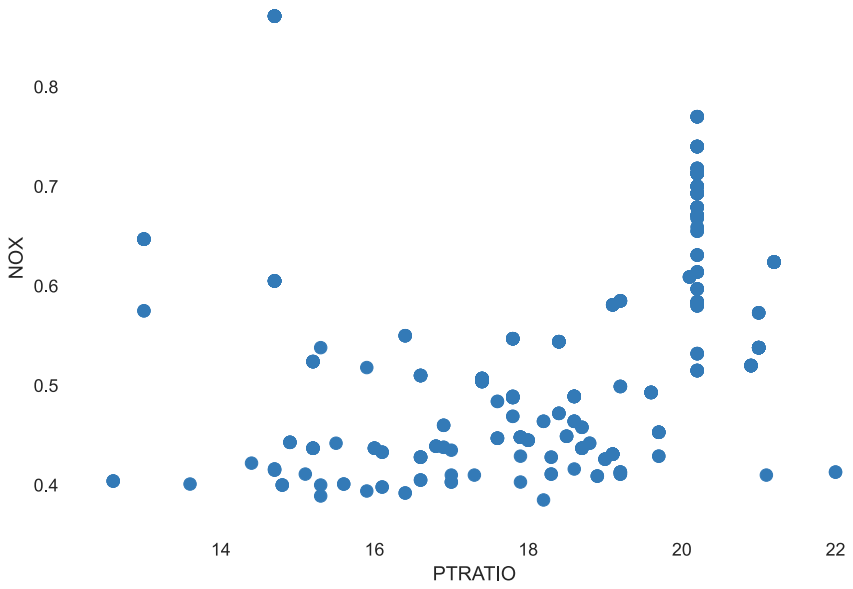
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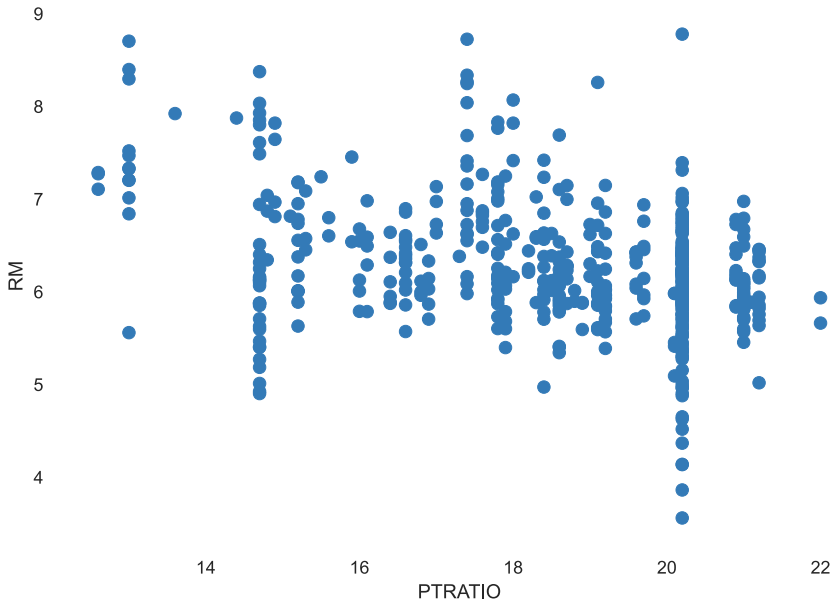
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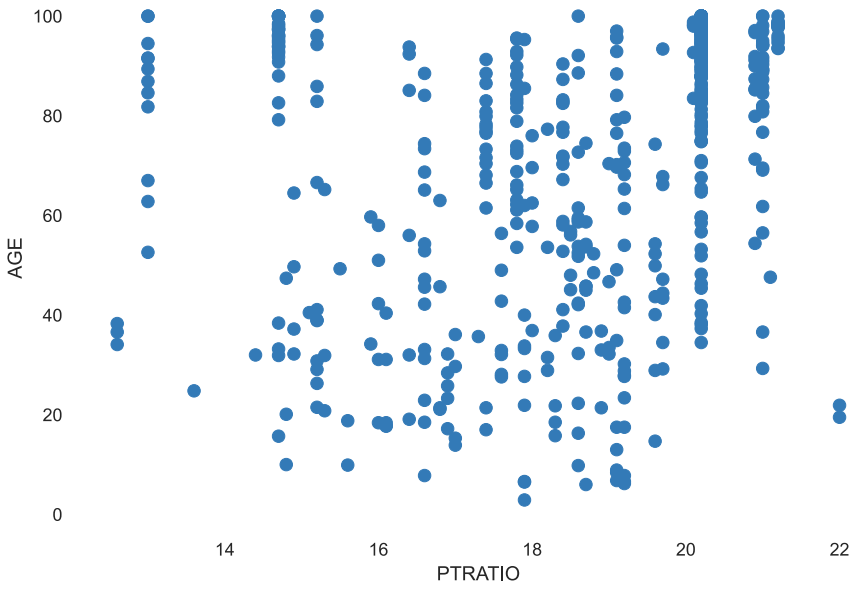
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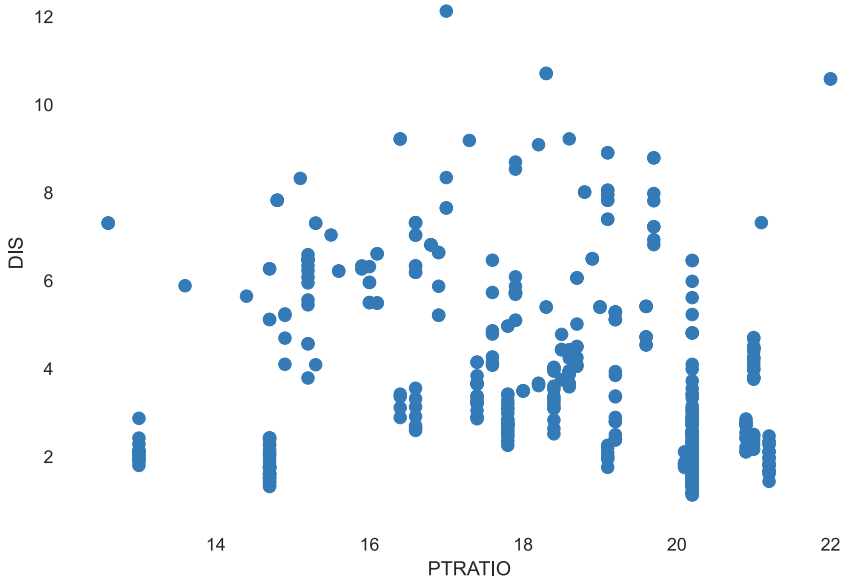
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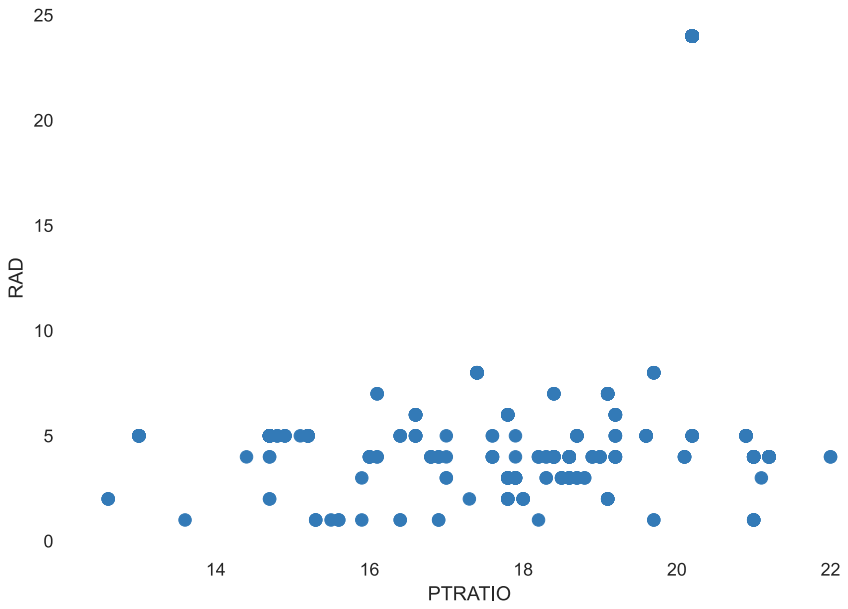
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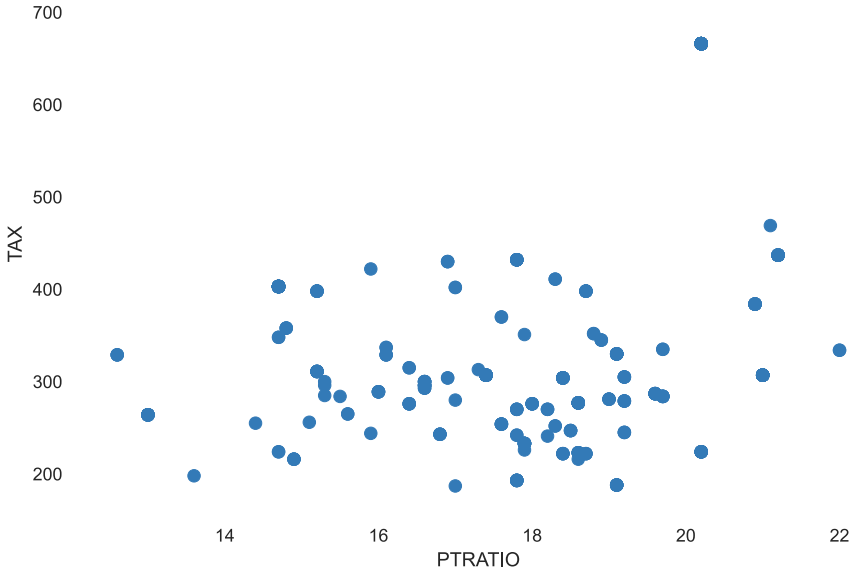
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PTRATIO