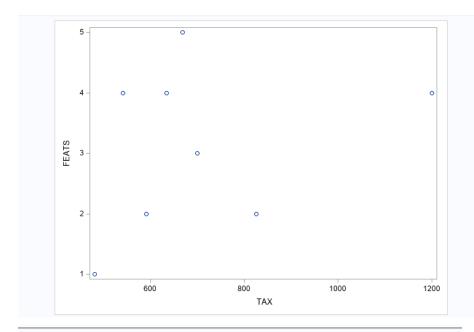
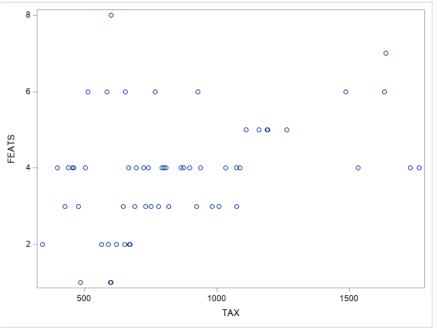
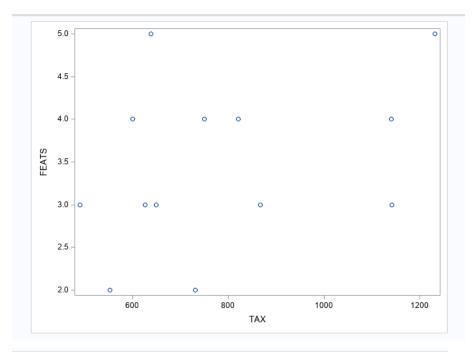
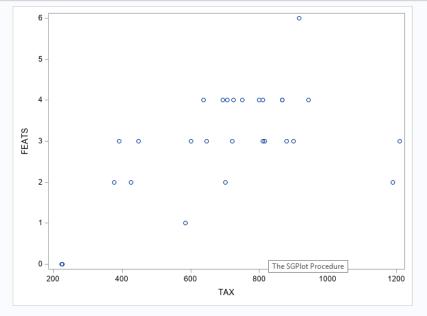
```
1)
data mydata;
 input drug $ nausea $ count;
 datalines;
 DrugGiven Nauseated 15
 DrugGiven NotNauseated 35
 PlaceboGiven Nauseated 4
 PlaceboGiven NotNauseated 46
run;
proc print data=mydata;
run;
proc freq data=mydata;
 tables drug*nausea / chisq;
run;
                  Chi-Square Test for Independence
The FREQ Procedure
Drug
        Nauseated
                      Not Nauseated
Drug Given
                      35
             15
Placebo Given 4
                       46
Chi-Square
              4.85
DF
           1
Pr > ChiSq
              0.028
2)
data homes;
infile 'home.txt';
input PRICE SQFT AGE FEATS NE CUST COR TAX;
run;
proc print data=homes;
run;
proc sgplot data=homse;
where COR = 0 and NE = 0;
 scatter x=TAX y=FEATS;
run;
proc sgplot data=homes;
where COR = 1 and NE = 0;
 scatter x=TAX y=FEATS;
run;
proc sgplot data=homes;
```

```
where COR = 0 and NE = 1;
scatter x=TAX y=FEATS;
run;
proc sgplot data=homes;
where COR = 1 and NE = 1;
scatter x=TAX y=FEATS;
run;
```





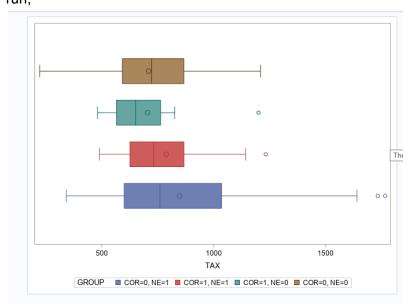




When it is a corner location or not as well as not northeast there seems to be a relationship.

```
data homes;
set homes;
if COR = 0 and NE = 0 then GROUP = 'COR=0, NE=0';
if COR = 0 and NE = 1 then GROUP = 'COR=0, NE=1';
if COR = 1 and NE = 0 then GROUP = 'COR=1, NE=0';
if COR = 1 and NE = 1 then GROUP = 'COR=1, NE=1';
run;
```

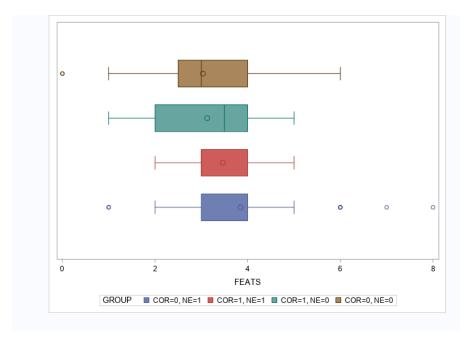
```
proc sgplot data=homes;
  hbox TAX / group=GROUP;
run;
```



If a house is not in a corner and norther east, there is an impact on the amount of annual tax

```
data homes;
set homes;
if COR = 0 and NE = 0 then GROUP = 'COR=0, NE=0';
if COR = 0 and NE = 1 then GROUP = 'COR=0, NE=1';
if COR = 1 and NE = 0 then GROUP = 'COR=1, NE=0';
if COR = 1 and NE = 1 then GROUP = 'COR=1, NE=1';
run;

proc sgplot data=homes;
hbox FEATS / group=GROUP;
run;
```



If a house is in a corner and not northeast it has an impact on the number of features