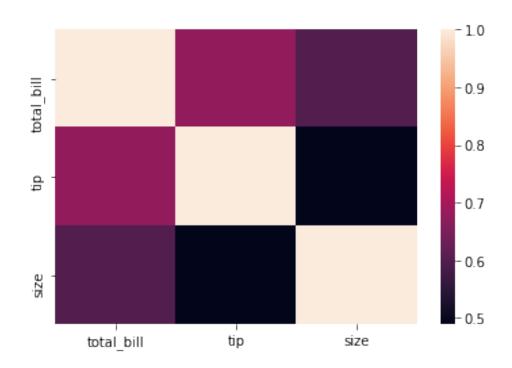
EXPRIMENT - 9

IMPLEMENT DATA VISULIZATION USING SEABORN

```
import seaborn as sns
import matplotlib.pyplot as plt
df5= sns.load dataset("tips")
df5
                                                    time
     total bill
                    tip
                             sex smoker
                                            day
                                                          size
0
           16.99
                   1.01
                                                 Dinner
                          Female
                                      No
                                            Sun
                                                              2
                                                              3
1
           10.34
                   1.66
                            Male
                                            Sun
                                                 Dinner
                                      No
2
                                                              3
           21.01
                   3.50
                            Male
                                      No
                                            Sun
                                                 Dinner
3
                                                              2
                            Male
           23.68
                   3.31
                                      No
                                            Sun
                                                 Dinner
4
           24.59
                   3.61
                          Female
                                                 Dinner
                                                              4
                                      No
                                            Sun
5
                                                              4
           25.29
                   4.71
                            Male
                                      No
                                            Sun
                                                 Dinner
6
                                                              2
            8.77
                   2.00
                                                 Dinner
                            Male
                                      No
                                            Sun
7
           26.88
                   3.12
                            Male
                                            Sun
                                                 Dinner
                                                              4
                                      No
                                                              2
8
           15.04
                  1.96
                            Male
                                      No
                                            Sun
                                                 Dinner
           14.78
                                                              2
9
                   3.23
                                            Sun
                            Male
                                      No
                                                 Dinner
10
                                                              2
           10.27
                   1.71
                            Male
                                      No
                                            Sun
                                                 Dinner
                                                              4
11
           35.26
                   5.00
                                                Dinner
                          Female
                                      No
                                            Sun
                                                              2
12
           15.42
                  1.57
                            Male
                                      No
                                            Sun
                                                 Dinner
                                                              4
13
           18.43
                   3.00
                            Male
                                            Sun
                                                 Dinner
                                      No
                                                              2
14
           14.83
                   3.02
                          Female
                                      No
                                            Sun
                                                 Dinner
15
                                                              2
           21.58
                   3.92
                            Male
                                      No
                                            Sun
                                                 Dinner
           10.33
                   1.67
                                                              3
16
                                            Sun
                          Female
                                      No
                                                 Dinner
                                                              3
17
           16.29
                   3.71
                            Male
                                      No
                                            Sun
                                                 Dinner
                                                              3
18
           16.97
                   3.50
                          Female
                                            Sun
                                                 Dinner
                                      No
                                                              3
19
           20.65
                   3.35
                            Male
                                      No
                                            Sat
                                                 Dinner
                                                              2
20
           17.92
                   4.08
                            Male
                                            Sat
                                                 Dinner
                                      No
21
                                                              2
           20.29
                   2.75
                          Female
                                      No
                                            Sat
                                                 Dinner
                                                              2
22
           15.77
                   2.23
                          Female
                                            Sat
                                                 Dinner
                                      No
23
                   7.58
                                                              4
           39.42
                                                 Dinner
                            Male
                                      No
                                            Sat
24
           19.82
                   3.18
                            Male
                                            Sat
                                                Dinner
                                                              2
                                      No
                                                              4
25
           17.81
                   2.34
                            Male
                                            Sat Dinner
                                      No
                                                              2
26
           13.37
                   2.00
                            Male
                                      No
                                            Sat
                                                Dinner
                                                              2
27
           12.69
                   2.00
                            Male
                                      No
                                            Sat
                                                 Dinner
                   4.30
                                                              2
28
           21.70
                            Male
                                                 Dinner
                                      No
                                            Sat
29
                                                              2
           19.65
                   3.00
                          Female
                                            Sat
                                                 Dinner
                                      No
                                     . . .
                                            . . .
214
           28.17
                   6.50
                          Female
                                            Sat
                                                 Dinner
                                                              3
                                     Yes
                                                              2
215
           12.90
                   1.10
                          Female
                                     Yes
                                            Sat
                                                 Dinner
                                                              5
216
           28.15
                   3.00
                            Male
                                     Yes
                                            Sat
                                                 Dinner
                                                              2
217
           11.59
                   1.50
                            Male
                                     Yes
                                            Sat
                                                 Dinner
                                                              2
218
            7.74
                   1.44
                            Male
                                     Yes
                                            Sat
                                                 Dinner
```

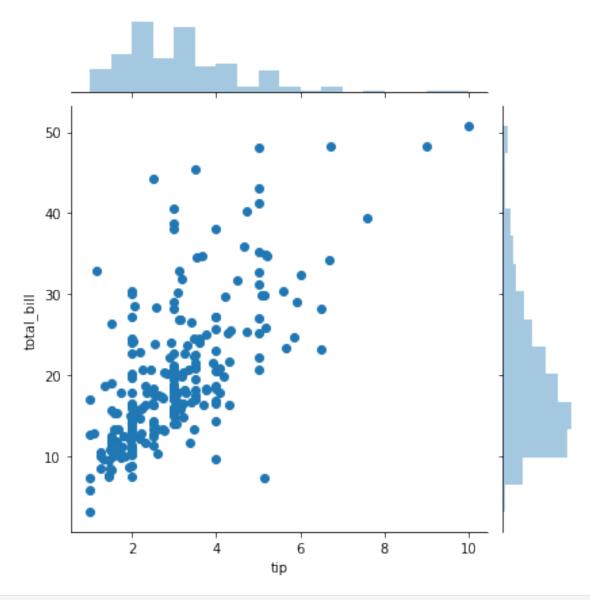
```
219
           30.14
                  3.09
                         Female
                                    Yes
                                                Dinner
                                                            4
                                           Sat
220
           12.16
                  2.20
                                                            2
                           Male
                                    Yes
                                           Fri
                                                 Lunch
                                                            2
221
           13.42
                  3.48
                         Female
                                    Yes
                                           Fri
                                                 Lunch
                  1.92
                                                            1
222
            8.58
                           Male
                                    Yes
                                           Fri
                                                 Lunch
                                                            3
223
           15.98
                  3.00
                         Female
                                     No
                                           Fri
                                                 Lunch
                                                            2
224
           13.42
                  1.58
                           Male
                                    Yes
                                           Fri
                                                 Lunch
                                                            2
225
           16.27
                  2.50
                         Female
                                           Fri
                                                 Lunch
                                    Yes
226
           10.09
                  2.00
                         Female
                                           Fri
                                                 Lunch
                                                            2
                                    Yes
227
                  3.00
                                                Dinner
                                                            4
           20.45
                           Male
                                     No
                                           Sat
                                                            2
228
           13.28
                  2.72
                           Male
                                     No
                                           Sat
                                                Dinner
                                                            2
           22.12
229
                  2.88
                         Female
                                    Yes
                                           Sat
                                                Dinner
                                                            4
230
           24.01
                  2.00
                           Male
                                    Yes
                                           Sat
                                                Dinner
231
           15.69
                  3.00
                                                Dinner
                                                             3
                           Male
                                    Yes
                                           Sat
232
                                                            2
                  3.39
           11.61
                           Male
                                           Sat
                                                Dinner
                                     No
                                                            2
233
           10.77
                  1.47
                           Male
                                     No
                                           Sat
                                                Dinner
                                                            2
                  3.00
234
           15.53
                           Male
                                    Yes
                                           Sat
                                                Dinner
                                                            2
235
           10.07
                  1.25
                           Male
                                     No
                                           Sat
                                                Dinner
236
                                                            2
           12.60
                  1.00
                           Male
                                                Dinner
                                    Yes
                                           Sat
                                                            2
237
           32.83
                  1.17
                           Male
                                           Sat
                                               Dinner
                                    Yes
238
           35.83
                  4.67
                                                Dinner
                                                            3
                         Female
                                     No
                                           Sat
                                                            3
239
                  5.92
           29.03
                           Male
                                     No
                                           Sat
                                               Dinner
                                                            2
240
           27.18
                  2.00
                         Female
                                    Yes
                                           Sat
                                                Dinner
                                                            2
241
           22.67
                  2.00
                           Male
                                           Sat
                                                Dinner
                                    Yes
                                                            2
242
           17.82
                  1.75
                           Male
                                     No
                                           Sat
                                                Dinner
243
           18.78
                                                            2
                  3.00
                         Female
                                     No
                                         Thur
                                                Dinner
[244 rows x 7 columns]
df5 = df5.drop(columns=['sex', 'smoker', 'day', 'time'])
df5.corr()
             total bill
                                tip
                                          size
total bill
               1.000000
                          0.675734
                                     0.598315
tip
               0.675734
                          1.000000
                                     0.489299
               0.598315
                          0.489299
                                     1.000000
size
sns.heatmap(df5.corr())
<matplotlib.axes. subplots.AxesSubplot at 0x9d17810>
```



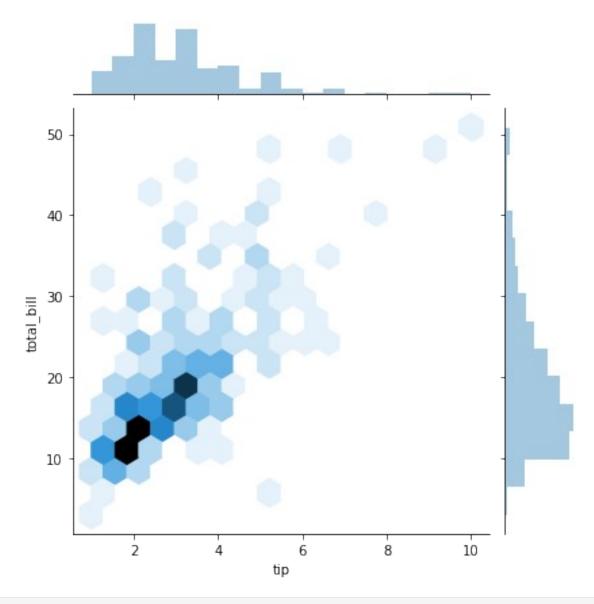
JOINT PLOT

sns.jointplot(x='tip',y='total_bill',data=df5)

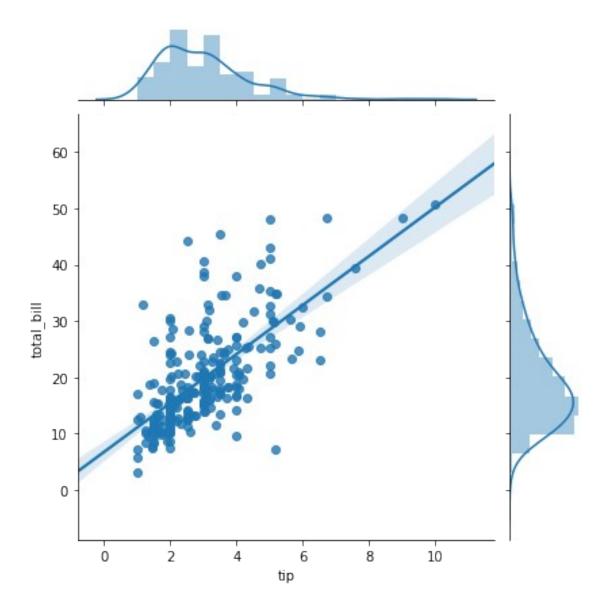
<seaborn.axisgrid.JointGrid at 0x9d64810>



sns.jointplot(x='tip',y='total_bill',data=df5, kind='hex')
<seaborn.axisgrid.JointGrid at 0xa1864b0>



sns.jointplot(x='tip',y='total_bill',data=df5, kind='reg')
<seaborn.axisgrid.JointGrid at 0xa186c70>



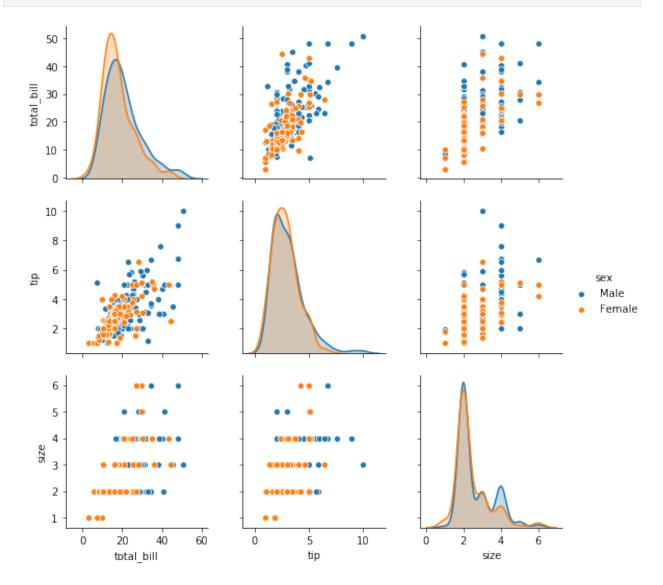
PAIR PLOT

```
df6= sns.load_dataset("tips")
df6
                                                             size
      total_bill
                    tip
                              sex smoker
                                              day
                                                      time
                    1.01
            \bar{1}6.99
                                              Sun
                                                   Dinner
0
                           Female
                                        No
                                                                 2
1
2
3
4
            10.34
                    1.66
                             Male
                                              Sun
                                                    Dinner
                                                                 3
3
2
                                        No
                    3.50
            21.01
                             Male
                                        No
                                              Sun
                                                    Dinner
            23.68
                    3.31
                             Male
                                                   Dinner
                                        No
                                              Sun
                    3.61
                                                                 4
            24.59
                                                   Dinner
                           Female
                                        No
                                              Sun
5
                    4.71
                                                   Dinner
            25.29
                             Male
                                                                 4
                                        No
                                              Sun
6
                    2.00
                                                                 2
             8.77
                             Male
                                                    Dinner
                                        No
                                              Sun
7
8
                    3.12
                             Male
                                                    Dinner
                                                                 4
            26.88
                                        No
                                              Sun
                                                                 2
            15.04
                    1.96
                             Male
                                                    Dinner
                                        No
                                              Sun
```

9									
10	Q	14 78	3 23	Male	No	Sun	Dinner	2	
11									
12									
13 18.43 3.00 Male No Sun Dinner 4 14 14.83 3.02 Female No Sun Dinner 2 15 21.58 3.92 Male No Sun Dinner 2 16 10.33 1.67 Female No Sun Dinner 3 17 16.29 3.75 Female No Sun Dinner 3 18 16.97 3.50 Female No Sun Dinner 3 20 17.92 4.08 Male No Sat Dinner 3 20 17.92 4.08 Male No Sat Dinner 2 21 20.92 2.75 Female No Sat Dinner 2 21 27.77 2.23 Female No Sat Dinner 2 22 15.77 2.23 Hale No Sat Dinner 2 25 17.81 2.34 Male No									
14 14,83 3.02 Female No Sun Dinner 2 15 21,58 3.92 Male No Sun Dinner 2 16 10.33 1.67 Female No Sun Dinner 3 17 16.29 3.71 Male No Sun Dinner 3 18 16.97 3.50 Female No Sun Dinner 3 19 20.65 3.35 Male No Sat Dinner 3 20 17.92 4.08 Male No Sat Dinner 2 21 20.29 2.75 Female No Sat Dinner 2 21 19.29 2.75 Female No Sat Dinner 2 22 15.77 2.23 Female No Sat Dinner 2 23 39.42 7.58 Male No Sat Dinner 2 25 17.81 2.34 Male No									
15									
16 10.33 1.67 Female No Sun Dinner 3 17 16.29 3.71 Male No Sun Dinner 3 18 16.97 3.50 Female No Sun Dinner 3 20 17.92 4.08 Male No Sat Dinner 2 21 20.29 2.75 Female No Sat Dinner 2 22 15.77 2.23 Female No Sat Dinner 2 23 39.42 7.58 Male No Sat Dinner 2 24 19.82 3.18 Male No Sat Dinner 2 25 17.81 2.34 Male No Sat Dinner 2 26 13.37 2.00 Male No Sat Dinner 2 27 12.69 2.00 Male No Sat	14	14.83	3.02	Female	No	Sun	Dinner		
16 10.33 1.67 Female No Sun Dinner 3 17 16.29 3.71 Male No Sun Dinner 3 18 16.97 3.50 Female No Sun Dinner 3 20 17.92 4.08 Male No Sat Dinner 2 21 20.29 2.75 Female No Sat Dinner 2 22 15.77 2.23 Female No Sat Dinner 2 23 39.42 7.58 Male No Sat Dinner 2 24 19.82 3.18 Male No Sat Dinner 2 25 17.81 2.34 Male No Sat Dinner 2 26 13.37 2.00 Male No Sat Dinner 2 27 12.69 2.00 Male No Sat	15	21.58	3.92	Male	No	Sun	Dinner	2	
21	16	10.33	1.67	Female	No	Sun	Dinner	3	
21								3	
21								3	
21								3	
21								2	
22								2	
23 39.42 7.58 Male No Sat Dinner 4 24 19.82 3.18 Male No Sat Dinner 2 25 17.81 2.34 Male No Sat Dinner 2 26 13.37 2.00 Male No Sat Dinner 2 27 12.69 2.00 Male No Sat Dinner 2 28 21.70 4.30 Male No Sat Dinner 2 29 19.65 3.00 Female No Sat Dinner 2 29 19.65 3.00 Female Yes Sat Dinner 2 21 19.65 3.00 Female Yes Sat Dinner 2 216 28.17 6.50 Female Yes Sat Dinner 2 216 28.17 3.00 Male Yes Sa								2	
24 19.82 3.18 Male No Sat Dinner 2 25 17.81 2.34 Male No Sat Dinner 4 26 13.37 2.00 Male No Sat Dinner 2 27 12.69 2.00 Male No Sat Dinner 2 28 21.70 4.30 Male No Sat Dinner 2 29 19.65 3.00 Female No Sat Dinner 2 29 19.65 3.00 Female Yes Sat Dinner 2 214 28.17 6.50 Female Yes Sat Dinner 2 216 28.15 3.00 Male Yes Sat Dinner 2 216 28.15 3.00 Male Yes Sat Dinner 2 217 11.59 1.50 Male Yes Sat Dinner 2 218 7.74 1.44 Male Yes <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td>								2	
25									
26									
27 12.69 2.00 Male No Sat Dinner 2 28 21.70 4.30 Male No Sat Dinner 2 29 19.65 3.00 Female No Sat Dinner 2 2 214 28.17 6.50 Female Yes Sat Dinner 3 215 12.90 1.10 Female Yes Sat Dinner 2 216 28.15 3.00 Male Yes Sat Dinner 2 217 11.59 Male Yes Sat Dinner 2 218 7.74 1.44 Male Yes Sat Dinner 2 219 30.14 3.09 Female Yes Fri Lunch 2 221 13.42 3.48 Female Yes Fri Lunch 2 222 8.58 1.92 Male Yes Fri Lunc				Male	No	Sat	Dinner		
27 12.69 2.00 Male No Sat Dinner 2 28 21.70 4.30 Male No Sat Dinner 2 29 19.65 3.00 Female No Sat Dinner 2 2 214 28.17 6.50 Female Yes Sat Dinner 3 215 12.90 1.10 Female Yes Sat Dinner 2 216 28.15 3.00 Male Yes Sat Dinner 2 217 11.59 Male Yes Sat Dinner 2 218 7.74 1.44 Male Yes Sat Dinner 2 219 30.14 3.09 Female Yes Fri Lunch 2 221 13.42 3.48 Female Yes Fri Lunch 2 222 8.58 1.92 Male Yes Fri Lunc	26	13.37	2.00	Male	No	Sat	Dinner	2	
28	27	12.69	2.00	Male	No	Sat	Dinner	2	
29	28	21.70	4.30	Male					
1.									
214 28.17 6.50 Female Yes Sat Dinner 3 215 12.90 1.10 Female Yes Sat Dinner 2 216 28.15 3.00 Male Yes Sat Dinner 5 217 11.59 1.50 Male Yes Sat Dinner 2 218 7.74 1.44 Male Yes Sat Dinner 2 219 30.14 3.09 Female Yes Sat Dinner 2 219 30.14 3.09 Female Yes Fri Lunch 2 220 12.16 2.20 Male Yes Fri Lunch 2 221 13.42 3.48 Female Yes Fri Lunch 1 222 8.58 1.92 Male Yes Fri Lunch 1 223 15.98 3.00 Female Yes Fri Lunch 2 225 16.27 2.50 Female									
215 12.90 1.10 Female Yes Sat Dinner 2 216 28.15 3.00 Male Yes Sat Dinner 5 217 11.59 1.50 Male Yes Sat Dinner 2 218 7.74 1.44 Male Yes Sat Dinner 2 219 30.14 3.09 Female Yes Sat Dinner 2 220 12.16 2.20 Male Yes Fri Lunch 2 221 13.42 3.48 Female Yes Fri Lunch 2 221 13.42 1.58 Male Yes Fri Lunch 1 223 15.98 3.00 Female Yes Fri Lunch 2 224 13.42 1.58 Male Yes Fri Lunch 2 225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female									
216									
218 7.74 1.44 Male Yes Sat Dinner 2 219 30.14 3.09 Female Yes Sat Dinner 4 220 12.16 2.20 Male Yes Fri Lunch 2 221 13.42 3.48 Female Yes Fri Lunch 2 222 8.58 1.92 Male Yes Fri Lunch 1 223 15.98 3.00 Female No Fri Lunch 3 224 13.42 1.58 Male Yes Fri Lunch 2 225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
218 7.74 1.44 Male Yes Sat Dinner 2 219 30.14 3.09 Female Yes Sat Dinner 4 220 12.16 2.20 Male Yes Fri Lunch 2 221 13.42 3.48 Female Yes Fri Lunch 2 222 8.58 1.92 Male Yes Fri Lunch 1 223 15.98 3.00 Female No Fri Lunch 3 224 13.42 1.58 Male Yes Fri Lunch 2 225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5</td><td></td></t<>								5	
219 30.14 3.09 Female Yes Sat Dinner 4 220 12.16 2.20 Male Yes Fri Lunch 2 221 13.42 3.48 Female Yes Fri Lunch 2 222 8.58 1.92 Male Yes Fri Lunch 1 223 15.98 3.00 Female No Fri Lunch 3 224 13.42 1.58 Male Yes Fri Lunch 2 225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 4 228 13.28 2.72 Male No Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 2 231 15.69 3.00 Male								2	
220 12.16 2.20 Male Yes Fri Lunch 2 221 13.42 3.48 Female Yes Fri Lunch 2 222 8.58 1.92 Male Yes Fri Lunch 1 223 15.98 3.00 Female No Fri Lunch 3 224 13.42 1.58 Male Yes Fri Lunch 2 225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 4 228 13.28 2.72 Male No Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 2 231 15.69 3.00 Male Yes Sat Dinner 2 233 10.67 1.47 Male No									
221 13.42 3.48 Female Yes Fri Lunch 2 222 8.58 1.92 Male Yes Fri Lunch 1 223 15.98 3.00 Female No Fri Lunch 3 224 13.42 1.58 Male Yes Fri Lunch 2 225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 4 228 13.28 2.72 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 3 231 15.69 3.00 Male Yes Sat Dinner 2 233 10.77 1.47 Male <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td><td></td></td<>								4	
222 8.58 1.92 Male Yes Fri Lunch 1 223 15.98 3.00 Female No Fri Lunch 3 224 13.42 1.58 Male Yes Fri Lunch 2 225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 4 228 13.28 2.72 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 4 231 15.69 3.00 Male Yes Sat Dinner 2 233 10.77 1.47 Male No Sat Dinner 2 234 15.53 3.00 Male Y					Yes			2	
222 8.58 1.92 Male Yes Fri Lunch 1 223 15.98 3.00 Female No Fri Lunch 3 224 13.42 1.58 Male Yes Fri Lunch 2 225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 4 228 13.28 2.72 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 4 231 15.69 3.00 Male Yes Sat Dinner 2 233 10.77 1.47 Male No Sat Dinner 2 234 15.53 3.00 Male Y	221	13.42	3.48	Female	Yes	Fri	Lunch	2	
223 15.98 3.00 Female No Fri Lunch 3 224 13.42 1.58 Male Yes Fri Lunch 2 225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 4 228 13.28 2.72 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 2 231 15.69 3.00 Male Yes Sat Dinner 3 232 11.61 3.39 Male No Sat Dinner 2 233 10.77 1.47 Male No Sat Dinner 2 234 15.53 3.00 Male	222	8.58	1.92	Male	Yes	Fri	Lunch	1	
224 13.42 1.58 Male Yes Fri Lunch 2 225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 4 228 13.28 2.72 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 2 231 15.69 3.00 Male Yes Sat Dinner 3 232 11.61 3.39 Male No Sat Dinner 2 233 10.77 1.47 Male No Sat Dinner 2 234 15.53 3.00 Male Yes Sat Dinner 2 235 10.07 1.25 Male	223	15.98	3.00	Female	No	Fri	Lunch	3	
225 16.27 2.50 Female Yes Fri Lunch 2 226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 4 228 13.28 2.72 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 4 231 15.69 3.00 Male Yes Sat Dinner 3 232 11.61 3.39 Male No Sat Dinner 2 233 10.77 1.47 Male No Sat Dinner 2 234 15.53 3.00 Male Yes Sat Dinner 2 235 10.07 1.25 Male No Sat Dinner 2 236 12.60 1.00 Male								2	
226 10.09 2.00 Female Yes Fri Lunch 2 227 20.45 3.00 Male No Sat Dinner 4 228 13.28 2.72 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 4 231 15.69 3.00 Male Yes Sat Dinner 3 232 11.61 3.39 Male No Sat Dinner 2 233 10.77 1.47 Male No Sat Dinner 2 234 15.53 3.00 Male Yes Sat Dinner 2 235 10.07 1.25 Male No Sat Dinner 2 236 12.60 1.00 Male Yes Sat Dinner 2 237 32.83 1.17 Male Y									
227 20.45 3.00 Male No Sat Dinner 4 228 13.28 2.72 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 4 231 15.69 3.00 Male Yes Sat Dinner 3 232 11.61 3.39 Male No Sat Dinner 2 233 10.77 1.47 Male No Sat Dinner 2 234 15.53 3.00 Male Yes Sat Dinner 2 235 10.07 1.25 Male No Sat Dinner 2 236 12.60 1.00 Male Yes Sat Dinner 2 237 32.83 1.17 Male Yes Sat Dinner 3 238 35.83 4.67 Female									
228 13.28 2.72 Male No Sat Dinner 2 229 22.12 2.88 Female Yes Sat Dinner 2 230 24.01 2.00 Male Yes Sat Dinner 4 231 15.69 3.00 Male Yes Sat Dinner 3 232 11.61 3.39 Male No Sat Dinner 2 233 10.77 1.47 Male No Sat Dinner 2 234 15.53 3.00 Male Yes Sat Dinner 2 235 10.07 1.25 Male No Sat Dinner 2 236 12.60 1.00 Male Yes Sat Dinner 2 237 32.83 1.17 Male Yes Sat Dinner 2 238 35.83 4.67 Female No Sat Dinner 3 239 29.03 5.92 Male									
13.28 2.72 Mate No Sat Differ 2									
230								2	
230								2	
15.69 3.00 Male Yes Sat Dinner 3 11.61 3.39 Male No Sat Dinner 2 10.77 1.47 Male No Sat Dinner 2 15.53 3.00 Male Yes Sat Dinner 2 16.07 1.25 Male No Sat Dinner 2 17.60 1.00 Male Yes Sat Dinner 2 18.60 1.00 Male Yes Sat Dinner 2 19.60 1.00 Female No Sat Dinner 3 19.60 1.60 1.60 Sat Dinner 3 19.60 Sat Dinner 3 19								4	
232 11.61 3.39 Male No Sat Dinner 2 233 10.77 1.47 Male No Sat Dinner 2 234 15.53 3.00 Male Yes Sat Dinner 2 235 10.07 1.25 Male No Sat Dinner 2 236 12.60 1.00 Male Yes Sat Dinner 2 237 32.83 1.17 Male Yes Sat Dinner 2 238 35.83 4.67 Female No Sat Dinner 3 239 29.03 5.92 Male No Sat Dinner 2 240 27.18 2.00 Female Yes Sat Dinner 2								3	
233 10.77 1.47 Male No Sat Dinner 2 234 15.53 3.00 Male Yes Sat Dinner 2 235 10.07 1.25 Male No Sat Dinner 2 236 12.60 1.00 Male Yes Sat Dinner 2 237 32.83 1.17 Male Yes Sat Dinner 2 238 35.83 4.67 Female No Sat Dinner 3 239 29.03 5.92 Male No Sat Dinner 2 240 27.18 2.00 Female Yes Sat Dinner 2					No			2	
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240 27.18 2.00 remate res Sat Dinner 2								3	
	240	27.18	2.00	remate	res	Sat	nTillier	2	

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241
           22.67
                  2.00
                           Male
                                    Yes
                                           Sat
                                                Dinner
                                                            2 2 2
242
           17.82
                  1.75
                           Male
                                     No
                                           Sat
                                                Dinner
243
           18.78
                  3.00
                         Female
                                     No
                                         Thur
                                                Dinner
[244 rows x 7 columns]
sns.pairplot(df6,hue='sex')
```

<seaborn.axisgrid.PairGrid at 0xace7ad0>



DIST PLOT

sns.distplot(df5['total_bill'])
<matplotlib.axes._subplots.AxesSubplot at 0xb2a02b0>

