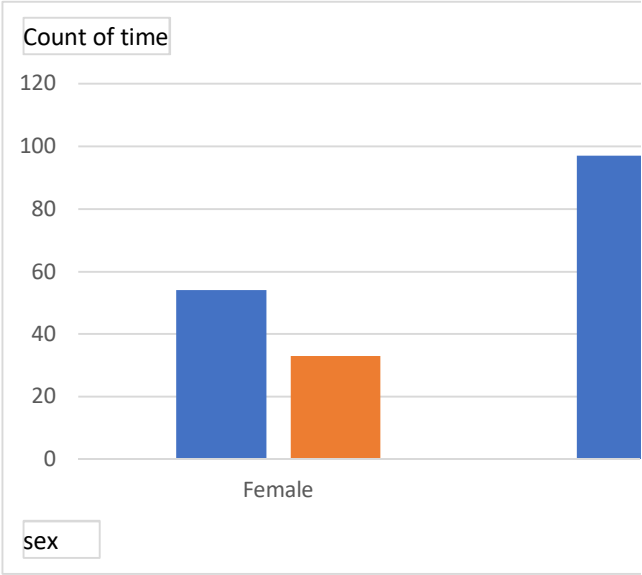
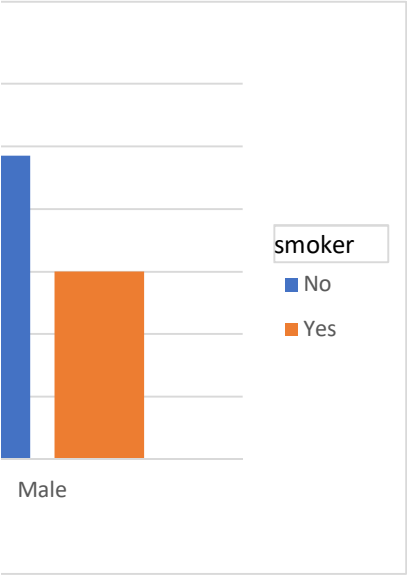


Count of time		Column Labels		
Row Labels	No	Yes	Grand Total	
Female	54	33	87	
Male	97	60	157	
Grand Total	151	93	244	





Sum of total_bill	Column Labels													
Row Labels	1			1 Total	2				2 Total	3				3 Total
	Fri	Sat	Thur		Sun	Fri	Sat	Thur		Sun	Fri	Sat	Thur	
Female		10	10	20	100	111	348	331	890	108	16	142	35	302
No		7	10	17	73	23	149	256	501	69	16	70	19	174
Yes		3		3	27	89	198	75	389	39		72	16	128
Male	9			9	585	150	545	397	1676	224		317	42	583
No					350	35	251	244	880	156		194	23	373
Yes	9			9	235	115	293	152	796	68		123	19	210
Grand Total	9	10	10	29	685	261	892	728	2566	333	16	459	77	885

4				4 Total	5			5 Total	6		6 Total	Grand Total
Sun	Fri	Sat	Thur		Sun	Sat	Thur		Sun	Thur		
120		51	102	273	30			30		57	57	1571
120		21	59	199	30			30		57	57	978
		30	43	73								593
361	40	338	48	786	51	28	41	120	48	34	82	3257
303		193	27	523	21		41	62	48	34	82	1920
58	40	145	21	263	30	28		59				1337
480	40	388	150	1059	81	28	41	150	48	91	139	4828

<u>Predicted Y tip</u>		Predicted- Actual Values
2.704636	1.01	1.694636
2.006223	1.66	0.346223
3.126835	3.5	-0.37317
3.40725	3.31	0.09725
3.502822	3.61	-0.10718
3.57634	4.71	-1.13366
1.841335	2	-0.15867
3.743329	3.12	0.623329
2.499838	1.96	0.539838
2.472532	3.23	-0.75747
1.998871	1.71	0.288871
4.623434	5	-0.37657
2.539748	1.57	0.969748
2.855871	3	-0.14413
2.477783	3.02	-0.54222
3.186699	3.92	-0.7333
2.005173	1.67	0.335173
2.631119	3.71	-1.07888
2.702536	3.5	-0.79746
3.089026	3.35	-0.26097
2.802309	4.08	-1.27769
3.051217	2.75	0.301217
2.576506	2.23	0.346506
5.060336	7.58	-2.51966
3.001856	3.18	-0.17814
2.790756	2.34	0.450756
2.324447	2	0.324447
2.253031	2	0.253031
3.199302	4.3	-1.1007
2.984001	3	-0.016
1.923254	1.45	0.473254
2.84747	2.5	0.34747
2.501939	3	-0.49806
3.093227	2.45	0.643227
2.787606	3.27	-0.48239
3.44716	3.6	-0.15284
2.633219	2	0.633219
2.698335	3.07	-0.37167
2.883178	2.31	0.573178
4.204386	5	-0.79561
2.604863	2.24	0.364863
2.753998	2.54	0.213998
2.384311	3.06	-0.67569
1.936907	1.32	0.616907
4.113015	5.6	-1.48699
2.841168	3	-0.15883
3.254965	5	-1.74504
4.323064	6	-1.67694
3.91872	2.05	1.86872

## Root Mean Square alue

1.01785

## SUMMARY OUTPUT

<u>Regression Statistics</u>	
Multiple R	0.675753
R Square	0.456641
Adjusted R	0.454387
Standard E	1.024143
Observatio	243

## ANOVA

	<u>df</u>
Regression	1
Residual	241
Total	242

<u>Coefficients</u>	
Intercept	0.919716
X Variable :	0.10503

## RESIDUAL OUTPUT

<u>Observation</u>	<u>Predicted Y</u>
1	2.704179
2	2.005728
3	3.1264
4	3.40683
5	3.502408
6	3.575929
7	1.840831
8	3.742927
9	2.49937
10	2.472062
11	1.998376
12	4.623079
13	2.539281
14	2.855422
15	2.477313
16	3.186267
17	2.004678
18	2.630657
19	2.702078
20	3.088589
21	2.801857
22	3.050778

2.814912	3	-0.18509	23	2.576042
2.237277	2.5	-0.26272	24	5.060005
2.000972	2.6	-0.59903	25	3.001414
4.576173	5.2	-0.62383	26	2.790303
1.964213	1.56	0.404213	27	2.323969
3.604696	4.34	-0.7353	28	2.252549
2.967197	3.51	-0.5428	29	3.198871
4.912252	3	1.912252	30	2.983559
3.693967	1.5	2.193967	31	1.922754
2.100745	1.76	0.340745	32	2.84702
5.989803	6.73	-0.7402	33	2.50147
3.051217	3.21	-0.15878	34	3.09279
2.370658	2	0.370658	35	2.787152
2.07764	1.98	0.09764	36	3.446742
2.841168	3.76	-0.91883	37	2.632758
2.767651	2.64	0.127651	38	2.697877
3.029162	3.15	-0.12084	39	2.88273
2.647923	2.47	0.177923	40	4.204009
1.242695	1	0.242695	41	2.6044
3.044916	2.01	1.034916	42	2.753543
2.496688	2.09	0.406688	43	2.383837
2.182664	1.97	0.212664	44	1.936408
2.713038	3	-0.28696	45	4.112633
3.741228	3.14	0.601228	46	2.840718
3.575289	5	-1.42471	47	3.254537
2.467281	2.2	0.267281	48	4.322693
2.024077	1.25	0.774077	49	3.918327
2.802309	3.08	-0.27769	50	2.81446
3.776936	4	-0.22306	51	2.236794
3.310628	3	0.310628	52	2.000477
2.736144	2.71	0.026144	53	4.575816
2.961946	3	-0.03805	54	1.963716
2.669978	3.4	-0.73002	55	3.604287
1.977867	1.83	0.147867	56	2.966754
4.352471	5	-0.64753	57	4.911912
2.598561	2.03	0.568561	58	3.693563
4.578274	5.17	-0.59173	59	2.100255
2.288739	2	0.288739	60	5.989522
2.840118	4	-1.15988	61	3.050778
3.515425	5.85	-2.33457	62	2.370183
3.142588	3	0.142588	63	2.077149
3.96283	3	0.96283	64	2.840718
3.282271	3.5	-0.21773	65	2.767197
1.524161	1	0.524161	66	3.028722
2.63427	4.3	-1.66573	67	2.647462
3.309577	3.25	0.059577	68	1.242159
5.139104	4.73	0.409104	69	3.044476
3.785338	4	-0.21466	70	2.496219
2.183715	1.5	0.683715	71	2.182179
3.126835	3	0.126835	72	2.712581

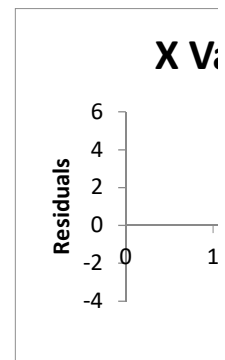
2.228875	1.5	0.728875	73	3.740826
2.112298	2.5	-0.3877	74	3.574878
2.535547	3	-0.46445	75	2.46681
5.572856	2.5	3.072856	76	2.023583
3.274919	3.48	-0.20508	77	2.801857
3.117383	4.08	-0.96262	78	3.776536
2.533446	1.64	0.893446	79	3.310203
3.072222	4.06	-0.98778	80	2.735688
3.567938	4.29	-0.72206	81	2.961502
2.835917	3.76	-0.92408	82	2.669519
2.42317	4	-1.57683	83	1.97737
2.390613	3	-0.60939	84	4.352102
1.681697	1	0.681697	85	2.598098
4.918553	4	0.918553	86	4.577916
3.435607	2.55	0.885607	87	2.288259
3.62045	4	-0.37955	88	2.839667
2.738244	3.5	-0.76176	89	3.515011
4.063653	5.07	-1.00635	90	3.142154
2.038781	1.5	0.538781	91	3.96244
2.225724	1.8	0.425724	92	3.281844
3.44926	2.92	0.52926	93	1.52364
2.148006	2.31	-0.16199	94	2.633808
2.329699	1.68	0.649699	95	3.309152
2.417919	2.5	-0.08208	96	5.138777
2.595411	2	0.595411	97	3.784939
2.230976	2.52	-0.28902	98	2.183229
4.05	4.2	-0.15	99	3.1264
1.815079	1.48	0.335079	100	2.228392
2.445226	2	0.445226	101	2.111809
2.115449	2	0.115449	102	2.53508
3.316929	2.18	1.136929	103	5.572552
2.924137	1.5	1.424137	104	3.274492
3.049117	2.83	0.219117	105	3.116947
2.093393	1.5	0.593393	106	2.532979
2.20787	2	0.20787	107	3.071784
2.838017	3.25	-0.41198	108	3.567526
1.814028	1.25	0.564028	109	2.835466
2.005173	2	0.005173	110	2.422698
2.406367	2	0.406367	111	2.390138
2.600662	2	0.600662	112	1.681185
2.302392	2.75	-0.44761	113	4.918214
2.755048	3.5	-0.74495	114	3.435188
4.522611	6.7	-2.17739	115	3.620041
5.246229	5	0.246229	116	2.737788
3.761183	5	-1.23882	117	4.063269
2.645822	2.3	0.345822	118	2.038287
1.797224	1.5	0.297224	119	2.225241
2.877927	1.36	1.517927	120	3.448842
2.166911	1.63	0.536911	121	2.147519
1.947409	1.73	0.217409	122	2.329221

1.709004	2	-0.291	123	2.417446
2.397965	2.5	-0.10204	124	2.594947
2.299242	2	0.299242	125	2.230493
2.732993	2.74	-0.00701	126	4.049615
3.498622	2	1.498622	127	1.814573
2.996604	2	0.996604	128	2.444754
4.055251	5.14	-1.08475	129	2.114959
5.979301	5	0.979301	130	3.316504
3.545883	3.75	-0.20412	131	2.923692
2.326548	2.61	-0.28345	132	3.048677
2.652124	2	0.652124	133	2.092903
3.178297	3.5	-0.3217	134	2.207386
2.24988	2.5	-0.25012	135	2.837567
2.622717	2	0.622717	136	1.813523
2.370658	2	0.370658	137	2.004678
2.759249	3	-0.24075	138	2.405893
3.495471	3.48	0.015471	139	2.600199
3.100579	2.24	0.860579	140	2.301913
4.250597	4.5	-0.2494	141	2.754593
2.032479	1.61	0.422479	142	4.52225
2.03668	2	0.03668	143	5.245908
6.256565	10	-3.74343	144	3.760782
2.580707	3.16	-0.57929	145	2.645362
1.681697	5.15	-3.4683	146	1.796718
4.2653	3.18	1.0853	147	2.877478
2.686782	4	-1.31322	148	2.166424
4.375576	3.11	1.265576	149	1.946911
2.799158	2	0.799158	150	1.708493
2.441025	2	0.441025	151	2.397491
1.928505	4	-2.0715	152	2.298762
4.557269	3.55	1.007269	153	2.732537
4.559369	3.68	0.879369	154	3.498206
3.370492	5.65	-2.27951	155	2.996162
5.683131	3.5	2.183131	156	4.054866
3.353688	6.5	-3.14631	157	5.979019
5.179014	3	2.179014	158	3.54547
3.093227	5	-1.90677	159	2.32607
3.115282	3.5	-0.38472	160	2.651663
4.119316	2	2.119316	161	3.177865
2.826465	3.5	-0.67354	162	2.249398
3.346336	4	-0.65366	163	2.622255
2.568104	1.5	1.068104	164	2.370183
3.000805	4.19	-1.18919	165	2.758794
3.907167	2.56	1.347167	166	3.495056
2.546049	2.02	0.526049	167	3.100142
2.661576	4	-1.33842	168	4.250222
1.714255	1.44	0.274255	169	2.031986
2.006223	2	0.006223	170	2.036187
5.447877	5	0.447877	171	6.256298
2.285588	2	0.285588	172	2.580243



2.339151	2	0.339151	173	1.681185
2.885278	4	-1.11472	174	4.264927
2.258282	2.01	0.248282	175	2.686323
2.285588	2	0.285588	176	4.375208
2.642672	2.5	0.142672	177	2.798706
3.076423	4	-0.92358	178	2.440553
2.650023	3.23	-0.57998	179	1.928006
3.712872	3.41	0.302872	180	4.55691
4.987869	3	1.987869	181	4.559011
3.469215	2.03	1.439215	182	3.37007
2.260382	2.23	0.030382	183	5.682834
4.077307	2	2.077307	184	3.353265
3.639354	5.16	-1.52065	185	5.178689
5.996105	9	-3.0039	186	3.09279
2.313945	2.5	-0.18606	187	3.114846
3.87881	6.5	-2.62119	188	4.118935
2.275086	1.1	1.175086	189	2.826014
3.87671	3	0.87671	190	3.345913
2.137504	1.5	0.637504	191	2.567639
1.733159	1.44	0.293159	192	3.000364
4.085709	3.09	0.995709	193	3.906774
2.197368	2.2	-0.00263	194	2.545583
2.329699	3.48	-1.1503	195	2.661116
1.82138	1.92	-0.09862	196	1.713744
2.598561	3	-0.40144	197	2.005728
2.329699	1.58	0.749699	198	5.447566
2.629019	2.5	0.129019	199	2.285108
1.979967	2	-0.02003	200	2.338674
3.068021	3	0.068021	201	2.88483
2.314995	2.72	-0.405	202	2.2578
3.243412	2.88	0.363412	203	2.285108
3.441908	2	1.441908	204	2.642211
2.568104	3	-0.4319	205	3.075985
2.139604	3.39	-1.2504	206	2.649563
2.051384	1.47	0.581384	207	3.712468
2.5513	3	-0.4487	208	4.987534
1.977867	1.25	0.727867	209	3.468798
2.243579	1	1.243579	210	2.259901
4.368225	1.17	3.198225	211	4.076923
4.683298	4.67	0.013298	212	3.638947
3.969131	5.92	-1.95087	213	5.995823
3.774836	2	1.774836	214	2.313466
3.301175	2	1.301175	215	3.878416
2.791807	1.75	1.041807	216	2.274605
<u>2.89263</u>	3	-0.10737	217	3.876315
			218	2.137016
			219	1.73265
			220	4.085325
			221	2.196883
			222	2.329221

223	1.820875
224	2.598098
225	2.329221
226	2.628557
227	1.979471
228	3.067583
229	2.314517
230	3.242983
231	3.44149
232	2.567639
233	2.139116
234	2.050891
235	2.550835
236	1.97737
237	2.243096
238	4.367856
239	4.682947
240	3.968742
241	3.774436
242	3.30075
243	2.791354
244	2.89263



<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
212.4353	212.4353	202.5377	9.05E-34
252.7772	1.048868		
465.2125			

<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
0.160149	5.742887	2.79E-08	0.604246	1.235186	0.604246	1.235186
0.00738	14.23157	9.05E-34	0.090492	0.119568	0.090492	0.119568

<i>Residuals</i>
-1.69418
-0.34573
0.3736
-0.09683
0.107592
1.134071
0.159169
-0.62293
-0.53937
0.757938
-0.28838
0.376921
-0.96928
0.144578
0.542687
0.733733
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1.079343
0.797922
0.261411
1.278143
-0.30078

-0.34604  
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0.178586  
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-0.99616  
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0.20453  
0.28393  
-0.65166  
0.322135  
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day	time	size	total_bill	tip
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7	0	2	23.68	3.31
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6	0	3	24.06	3.6
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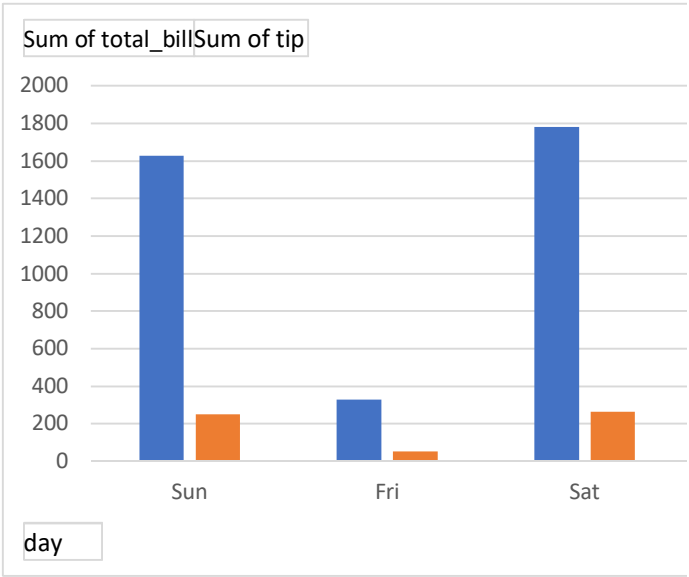


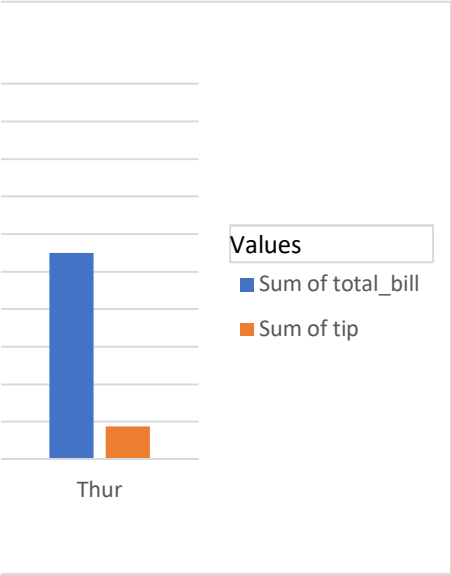
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6	0	2	12.6	1
6	0	2	32.83	1.17
6	0	3	35.83	4.67
6	0	3	29.03	5.92
6	0	2	27.18	2
6	0	2	22.67	2
6	0	2	17.82	1.75
4	0	2	18.78	3

Row Labels	Sum of total_bill	Sum of tip
Sun	1627.16	247.39
Fri	325.88	51.96
Sat	1778.4	260.4
Thur	1096.33	171.83
Grand Total	4827.77	731.58





sex	smoker	day	time	size	total_bill
Female	No	Sun	Dinner	2	16.99
Male	No	Sun	Dinner	3	10.34
Male	No	Sun	Dinner	3	21.01
Male	No	Sun	Dinner	2	23.68
Female	No	Sun	Dinner	4	24.59
Male	No	Sun	Dinner	4	25.29
Male	No	Sun	Dinner	2	8.77
Male	No	Sun	Dinner	4	26.88
Male	No	Sun	Dinner	2	15.04
Male	No	Sun	Dinner	2	14.78
Male	No	Sun	Dinner	2	10.27
Female	No	Sun	Dinner	4	35.26
Male	No	Sun	Dinner	2	15.42
Male	No	Sun	Dinner	4	18.43
Female	No	Sun	Dinner	2	14.83
Male	No	Sun	Dinner	2	21.58
Female	No	Sun	Dinner	3	10.33
Male	No	Sun	Dinner	3	16.29
Female	No	Sun	Dinner	3	16.97
Male	No	Sat	Dinner	3	20.65
Male	No	Sat	Dinner	2	17.92
Female	No	Sat	Dinner	2	20.29
Female	No	Sat	Dinner	2	15.77
Male	No	Sat	Dinner	4	39.42
Male	No	Sat	Dinner	2	19.82
Male	No	Sat	Dinner	4	17.81
Male	No	Sat	Dinner	2	13.37
Male	No	Sat	Dinner	2	12.69
Male	No	Sat	Dinner	2	21.7
Female	No	Sat	Dinner	2	19.65
Male	No	Sat	Dinner	2	9.55
Male	No	Sat	Dinner	4	18.35
Female	No	Sat	Dinner	2	15.06
Female	No	Sat	Dinner	4	20.69
Male	No	Sat	Dinner	2	17.78
Male	No	Sat	Dinner	3	24.06
Male	No	Sat	Dinner	3	16.31
Female	No	Sat	Dinner	3	16.93
Male	No	Sat	Dinner	3	18.69
Male	No	Sat	Dinner	3	31.27
Male	No	Sat	Dinner	3	16.04
Male	No	Sun	Dinner	2	17.46
Male	No	Sun	Dinner	2	13.94
Male	No	Sun	Dinner	2	9.68
Male	No	Sun	Dinner	4	30.4
Male	No	Sun	Dinner	2	18.29

Male	No	Sun	Dinner	2	22.23
Male	No	Sun	Dinner	4	32.4
Male	No	Sun	Dinner	3	28.55
Male	No	Sun	Dinner	2	18.04
Male	No	Sun	Dinner	2	12.54
Female	No	Sun	Dinner	2	10.29
Female	No	Sun	Dinner	4	34.81
Male	No	Sun	Dinner	2	9.94
Male	No	Sun	Dinner	4	25.56
Male	No	Sun	Dinner	2	19.49
Male	Yes	Sat	Dinner	4	38.01
Female	No	Sat	Dinner	2	26.41
Male	Yes	Sat	Dinner	2	11.24
Male	No	Sat	Dinner	4	48.27
Male	Yes	Sat	Dinner	2	20.29
Male	Yes	Sat	Dinner	2	13.81
Male	Yes	Sat	Dinner	2	11.02
Male	Yes	Sat	Dinner	4	18.29
Male	No	Sat	Dinner	3	17.59
Male	No	Sat	Dinner	3	20.08
Female	No	Sat	Dinner	2	16.45
Female	Yes	Sat	Dinner	1	3.07
Male	No	Sat	Dinner	2	20.23
Male	Yes	Sat	Dinner	2	15.01
Male	No	Sat	Dinner	2	12.02
Female	No	Sat	Dinner	3	17.07
Female	Yes	Sat	Dinner	2	26.86
Female	Yes	Sat	Dinner	2	25.28
Female	No	Sat	Dinner	2	14.73
Male	No	Sat	Dinner	2	10.51
Male	Yes	Sat	Dinner	2	17.92
Male	No	Thur	Lunch	4	27.2
Male	No	Thur	Lunch	2	22.76
Male	No	Thur	Lunch	2	17.29
Male	Yes	Thur	Lunch	2	19.44
Male	No	Thur	Lunch	2	16.66
Female	No	Thur	Lunch	1	10.07
Male	Yes	Thur	Lunch	2	32.68
Male	No	Thur	Lunch	2	15.98
Female	No	Thur	Lunch	4	34.83
Male	No	Thur	Lunch	2	13.03
Male	No	Thur	Lunch	2	18.28
Male	No	Thur	Lunch	2	24.71
Male	No	Thur	Lunch	2	21.16
Male	Yes	Fri	Dinner	2	28.97
Male	No	Fri	Dinner	2	22.49
Female	Yes	Fri	Dinner	2	5.75

Female	Yes	Fri	Dinner	2	16.32
Female	No	Fri	Dinner	2	22.75
Male	Yes	Fri	Dinner	4	40.17
Male	Yes	Fri	Dinner	2	27.28
Male	Yes	Fri	Dinner	2	12.03
Male	Yes	Fri	Dinner	2	21.01
Male	No	Fri	Dinner	2	12.46
Female	Yes	Fri	Dinner	2	11.35
Female	Yes	Fri	Dinner	2	15.38
Female	Yes	Sat	Dinner	3	44.3
Female	Yes	Sat	Dinner	2	22.42
Female	No	Sat	Dinner	2	20.92
Male	Yes	Sat	Dinner	2	15.36
Male	Yes	Sat	Dinner	2	20.49
Male	Yes	Sat	Dinner	2	25.21
Male	No	Sat	Dinner	2	18.24
Female	Yes	Sat	Dinner	2	14.31
Male	No	Sat	Dinner	2	14
Female	No	Sat	Dinner	1	7.25
Male	No	Sun	Dinner	3	38.07
Male	No	Sun	Dinner	2	23.95
Female	No	Sun	Dinner	3	25.71
Female	No	Sun	Dinner	2	17.31
Male	No	Sun	Dinner	4	29.93
Female	No	Thur	Lunch	2	10.65
Female	No	Thur	Lunch	2	12.43
Female	No	Thur	Lunch	4	24.08
Male	No	Thur	Lunch	2	11.69
Female	No	Thur	Lunch	2	13.42
Male	No	Thur	Lunch	2	14.26
Male	No	Thur	Lunch	2	15.95
Female	No	Thur	Lunch	2	12.48
Female	No	Thur	Lunch	6	29.8
Male	No	Thur	Lunch	2	8.52
Female	No	Thur	Lunch	2	14.52
Female	No	Thur	Lunch	2	11.38
Male	No	Thur	Lunch	3	22.82
Male	No	Thur	Lunch	2	19.08
Female	No	Thur	Lunch	2	20.27
Female	No	Thur	Lunch	2	11.17
Female	No	Thur	Lunch	2	12.26
Female	No	Thur	Lunch	2	18.26
Female	No	Thur	Lunch	2	8.51
Female	No	Thur	Lunch	2	10.33
Female	No	Thur	Lunch	2	14.15
Male	Yes	Thur	Lunch	2	16
Female	No	Thur	Lunch	2	13.16



Female	No	Thur	Lunch	2	17.47
Male	No	Thur	Lunch	6	34.3
Male	No	Thur	Lunch	5	41.19
Female	No	Thur	Lunch	6	27.05
Female	No	Thur	Lunch	2	16.43
Female	No	Thur	Lunch	2	8.35
Female	No	Thur	Lunch	3	18.64
Female	No	Thur	Lunch	2	11.87
Male	No	Thur	Lunch	2	9.78
Male	No	Thur	Lunch	2	7.51
Male	No	Sun	Dinner	2	14.07
Male	No	Sun	Dinner	2	13.13
Male	No	Sun	Dinner	3	17.26
Male	No	Sun	Dinner	4	24.55
Male	No	Sun	Dinner	4	19.77
Female	No	Sun	Dinner	5	29.85
Male	No	Sun	Dinner	6	48.17
Female	No	Sun	Dinner	4	25
Female	No	Sun	Dinner	2	13.39
Male	No	Sun	Dinner	4	16.49
Male	No	Sun	Dinner	4	21.5
Male	No	Sun	Dinner	2	12.66
Female	No	Sun	Dinner	3	16.21
Male	No	Sun	Dinner	2	13.81
Female	Yes	Sun	Dinner	2	17.51
Male	No	Sun	Dinner	3	24.52
Male	No	Sun	Dinner	2	20.76
Male	No	Sun	Dinner	4	31.71
Female	Yes	Sat	Dinner	2	10.59
Female	Yes	Sat	Dinner	2	10.63
Male	Yes	Sat	Dinner	3	50.81
Male	Yes	Sat	Dinner	2	15.81
Male	Yes	Sun	Dinner	2	7.25
Male	Yes	Sun	Dinner	2	31.85
Male	Yes	Sun	Dinner	2	16.82
Male	Yes	Sun	Dinner	2	32.9
Male	Yes	Sun	Dinner	2	17.89
Male	Yes	Sun	Dinner	2	14.48
Female	Yes	Sun	Dinner	2	9.6
Male	Yes	Sun	Dinner	2	34.63
Male	Yes	Sun	Dinner	4	34.65
Male	Yes	Sun	Dinner	2	23.33
Male	Yes	Sun	Dinner	3	45.35
Male	Yes	Sun	Dinner	4	23.17
Male	Yes	Sun	Dinner	2	40.55
Male	No	Sun	Dinner	5	20.69
Female	Yes	Sun	Dinner	3	20.9

Male	Yes	Sun	Dinner	5	30.46
Female	Yes	Sun	Dinner	3	18.15
Male	Yes	Sun	Dinner	3	23.1
Male	Yes	Sun	Dinner	2	15.69
Female	Yes	Thur	Lunch	2	19.81
Male	Yes	Thur	Lunch	2	28.44
Male	Yes	Thur	Lunch	2	15.48
Male	Yes	Thur	Lunch	2	16.58
Male	No	Thur	Lunch	2	7.56
Male	Yes	Thur	Lunch	2	10.34
Female	Yes	Thur	Lunch	4	43.11
Female	Yes	Thur	Lunch	2	13
Male	Yes	Thur	Lunch	2	13.51
Male	Yes	Thur	Lunch	3	18.71
Female	Yes	Thur	Lunch	2	12.74
Female	Yes	Thur	Lunch	2	13
Female	Yes	Thur	Lunch	2	16.4
Male	Yes	Thur	Lunch	4	20.53
Female	Yes	Thur	Lunch	3	16.47
Male	Yes	Sat	Dinner	3	26.59
Male	Yes	Sat	Dinner	4	38.73
Male	Yes	Sat	Dinner	2	24.27
Female	Yes	Sat	Dinner	2	12.76
Male	Yes	Sat	Dinner	3	30.06
Male	Yes	Sat	Dinner	4	25.89
Male	No	Sat	Dinner	4	48.33
Female	Yes	Sat	Dinner	2	13.27
Female	Yes	Sat	Dinner	3	28.17
Female	Yes	Sat	Dinner	2	12.9
Male	Yes	Sat	Dinner	5	28.15
Male	Yes	Sat	Dinner	2	11.59
Male	Yes	Sat	Dinner	2	7.74
Female	Yes	Sat	Dinner	4	30.14
Male	Yes	Fri	Lunch	2	12.16
Female	Yes	Fri	Lunch	2	13.42
Male	Yes	Fri	Lunch	1	8.58
Female	No	Fri	Lunch	3	15.98
Male	Yes	Fri	Lunch	2	13.42
Female	Yes	Fri	Lunch	2	16.27
Female	Yes	Fri	Lunch	2	10.09
Male	No	Sat	Dinner	4	20.45
Male	No	Sat	Dinner	2	13.28
Female	Yes	Sat	Dinner	2	22.12
Male	Yes	Sat	Dinner	4	24.01
Male	Yes	Sat	Dinner	3	15.69
Male	No	Sat	Dinner	2	11.61
Male	No	Sat	Dinner	2	10.77

Male	Yes	Sat	Dinner	2	15.53
Male	No	Sat	Dinner	2	10.07
Male	Yes	Sat	Dinner	2	12.6
Male	Yes	Sat	Dinner	2	32.83
Female	No	Sat	Dinner	3	35.83
Male	No	Sat	Dinner	3	29.03
Female	Yes	Sat	Dinner	2	27.18
Male	Yes	Sat	Dinner	2	22.67
Male	No	Sat	Dinner	2	17.82
Female	No	Thur	Dinner	2	18.78

tip

1.01  
1.66  
3.5  
3.31  
3.61  
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3.12  
1.96  
3.23  
1.71  
5  
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3  
3.02  
3.92  
1.67  
3.71  
3.5  
3.35  
4.08  
2.75  
2.23  
7.58  
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2.54  
3.06  
1.32  
5.6  
3

sex
smoker
day
time
size
total bill
tip

5  
6  
2.05  
3  
2.5  
2.6  
5.2  
1.56  
4.34  
3.51  
3  
1.5  
1.76  
6.73  
3.21  
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1.98  
3.76  
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1.97  
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1.8  
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1.5  
4.19  
2.56  
2.02  
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1.44  
2  
5  
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4  
2.01  
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2.5  
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3.23  
3.41  
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2.03  
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6.5  
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1.5  
1.44  
3.09  
2.2  
3.48  
1.92  
3  
1.58  
2.5  
2  
3  
2.72  
2.88  
2  
3  
3.39  
1.47



3  
1.25  
1  
1.17  
4.67  
5.92  
2  
2  
1.75  
3

Gender of the customer
Indicates if the customer is a smoker or not
Day of the restaurant visit
Indicates whether the tip was for lunch or dinner
Number of members dining
Bill amount in USD
Tip amount in USD

sex	smoker	day	time	size	total_bill	tip	
	0	0	7	0	2	16.99	1.01
	1	0	7	0	3	10.34	1.66
	1	0	7	0	3	21.01	3.5
	1	0	7	0	2	23.68	3.31
	0	0	7	0	4	24.59	3.61
	1	0	7	0	4	25.29	4.71
	1	0	7	0	2	8.77	2
	1	0	7	0	4	26.88	3.12
	1	0	7	0	2	15.04	1.96
	1	0	7	0	2	14.78	3.23
	1	0	7	0	2	10.27	1.71
	0	0	7	0	4	35.26	5
	1	0	7	0	2	15.42	1.57
	1	0	7	0	4	18.43	3
	0	0	7	0	2	14.83	3.02
	1	0	7	0	2	21.58	3.92
	0	0	7	0	3	10.33	1.67
	1	0	7	0	3	16.29	3.71
	0	0	7	0	3	16.97	3.5
	1	0	6	0	3	20.65	3.35
	1	0	6	0	2	17.92	4.08
	0	0	6	0	2	20.29	2.75
	0	0	6	0	2	15.77	2.23
	1	0	6	0	4	39.42	7.58
	1	0	6	0	2	19.82	3.18
	1	0	6	0	4	17.81	2.34
	1	0	6	0	2	13.37	2
	1	0	6	0	2	12.69	2
	1	0	6	0	2	21.7	4.3
	0	0	6	0	2	19.65	3
	1	0	6	0	2	9.55	1.45
	1	0	6	0	4	18.35	2.5
	0	0	6	0	2	15.06	3
	0	0	6	0	4	20.69	2.45
	1	0	6	0	2	17.78	3.27
	1	0	6	0	3	24.06	3.6
	1	0	6	0	3	16.31	2
	0	0	6	0	3	16.93	3.07
	1	0	6	0	3	18.69	2.31
	1	0	6	0	3	31.27	5
	1	0	6	0	3	16.04	2.24
	1	0	7	0	2	17.46	2.54
	1	0	7	0	2	13.94	3.06
	1	0	7	0	2	9.68	1.32
	1	0	7	0	4	30.4	5.6
	1	0	7	0	2	18.29	3
	1	0	7	0	2	22.23	5
	1	0	7	0	4	32.4	6
	1	0	7	0	3	28.55	2.05

1	0	7	0	2	18.04	3
1	0	7	0	2	12.54	2.5
0	0	7	0	2	10.29	2.6
0	0	7	0	4	34.81	5.2
1	0	7	0	2	9.94	1.56
1	0	7	0	4	25.56	4.34
1	0	7	0	2	19.49	3.51
1	1	6	0	4	38.01	3
0	0	6	0	2	26.41	1.5
1	1	6	0	2	11.24	1.76
1	0	6	0	4	48.27	6.73
1	1	6	0	2	20.29	3.21
1	1	6	0	2	13.81	2
1	1	6	0	2	11.02	1.98
1	1	6	0	4	18.29	3.76
1	0	6	0	3	17.59	2.64
1	0	6	0	3	20.08	3.15
0	0	6	0	2	16.45	2.47
0	1	6	0	1	3.07	1
1	0	6	0	2	20.23	2.01
1	1	6	0	2	15.01	2.09
1	0	6	0	2	12.02	1.97
0	0	6	0	3	17.07	3
0	1	6	0	2	26.86	3.14
0	1	6	0	2	25.28	5
0	0	6	0	2	14.73	2.2
1	0	6	0	2	10.51	1.25
1	1	6	0	2	17.92	3.08
1	0	4	1	4	27.2	4
1	0	4	1	2	22.76	3
1	0	4	1	2	17.29	2.71
1	1	4	1	2	19.44	3
1	0	4	1	2	16.66	3.4
0	0	4	1	1	10.07	1.83
1	1	4	1	2	32.68	5
1	0	4	1	2	15.98	2.03
0	0	4	1	4	34.83	5.17
1	0	4	1	2	13.03	2
1	0	4	1	2	18.28	4
1	0	4	1	2	24.71	5.85
1	0	4	1	2	21.16	3
1	1	5	0	2	28.97	3
1	0	5	0	2	22.49	3.5
0	1	5	0	2	5.75	1
0	1	5	0	2	16.32	4.3
0	0	5	0	2	22.75	3.25
1	1	5	0	4	40.17	4.73
1	1	5	0	2	27.28	4
1	1	5	0	2	12.03	1.5
1	1	5	0	2	21.01	3

1	0	5	0	2	12.46	1.5
0	1	5	0	2	11.35	2.5
0	1	5	0	2	15.38	3
0	1	6	0	3	44.3	2.5
0	1	6	0	2	22.42	3.48
0	0	6	0	2	20.92	4.08
1	1	6	0	2	15.36	1.64
1	1	6	0	2	20.49	4.06
1	1	6	0	2	25.21	4.29
1	0	6	0	2	18.24	3.76
0	1	6	0	2	14.31	4
1	0	6	0	2	14	3
0	0	6	0	1	7.25	1
1	0	7	0	3	38.07	4
1	0	7	0	2	23.95	2.55
0	0	7	0	3	25.71	4
0	0	7	0	2	17.31	3.5
1	0	7	0	4	29.93	5.07
0	0	4	1	2	10.65	1.5
0	0	4	1	2	12.43	1.8
0	0	4	1	4	24.08	2.92
1	0	4	1	2	11.69	2.31
0	0	4	1	2	13.42	1.68
1	0	4	1	2	14.26	2.5
1	0	4	1	2	15.95	2
0	0	4	1	2	12.48	2.52
0	0	4	1	6	29.8	4.2
1	0	4	1	2	8.52	1.48
0	0	4	1	2	14.52	2
0	0	4	1	2	11.38	2
1	0	4	1	3	22.82	2.18
1	0	4	1	2	19.08	1.5
0	0	4	1	2	20.27	2.83
0	0	4	1	2	11.17	1.5
0	0	4	1	2	12.26	2
0	0	4	1	2	18.26	3.25
0	0	4	1	2	8.51	1.25
0	0	4	1	2	10.33	2
0	0	4	1	2	14.15	2
1	1	4	1	2	16	2
0	0	4	1	2	13.16	2.75
0	0	4	1	2	17.47	3.5
1	0	4	1	6	34.3	6.7
1	0	4	1	5	41.19	5
0	0	4	1	6	27.05	5
0	0	4	1	2	16.43	2.3
0	0	4	1	2	8.35	1.5
0	0	4	1	3	18.64	1.36
0	0	4	1	2	11.87	1.63
1	0	4	1	2	9.78	1.73

1	0	4	1	2	7.51	2
1	0	7	0	2	14.07	2.5
1	0	7	0	2	13.13	2
1	0	7	0	3	17.26	2.74
1	0	7	0	4	24.55	2
1	0	7	0	4	19.77	2
0	0	7	0	5	29.85	5.14
1	0	7	0	6	48.17	5
0	0	7	0	4	25	3.75
0	0	7	0	2	13.39	2.61
1	0	7	0	4	16.49	2
1	0	7	0	4	21.5	3.5
1	0	7	0	2	12.66	2.5
0	0	7	0	3	16.21	2
1	0	7	0	2	13.81	2
0	1	7	0	2	17.51	3
1	0	7	0	3	24.52	3.48
1	0	7	0	2	20.76	2.24
1	0	7	0	4	31.71	4.5
0	1	6	0	2	10.59	1.61
0	1	6	0	2	10.63	2
1	1	6	0	3	50.81	10
1	1	6	0	2	15.81	3.16
1	1	7	0	2	7.25	5.15
1	1	7	0	2	31.85	3.18
1	1	7	0	2	16.82	4
1	1	7	0	2	32.9	3.11
1	1	7	0	2	17.89	2
1	1	7	0	2	14.48	2
0	1	7	0	2	9.6	4
1	1	7	0	2	34.63	3.55
1	1	7	0	4	34.65	3.68
1	1	7	0	2	23.33	5.65
1	1	7	0	3	45.35	3.5
1	1	7	0	4	23.17	6.5
1	1	7	0	2	40.55	3
1	0	7	0	5	20.69	5
0	1	7	0	3	20.9	3.5
1	1	7	0	5	30.46	2
0	1	7	0	3	18.15	3.5
1	1	7	0	3	23.1	4
1	1	7	0	2	15.69	1.5
0	1	4	1	2	19.81	4.19
1	1	4	1	2	28.44	2.56
1	1	4	1	2	15.48	2.02
1	1	4	1	2	16.58	4
1	0	4	1	2	7.56	1.44
1	1	4	1	2	10.34	2
0	1	4	1	4	43.11	5
0	1	4	1	2	13	2

1	1	4	1	2	13.51	2
1	1	4	1	3	18.71	4
0	1	4	1	2	12.74	2.01
0	1	4	1	2	13	2
0	1	4	1	2	16.4	2.5
1	1	4	1	4	20.53	4
0	1	4	1	3	16.47	3.23
1	1	6	0	3	26.59	3.41
1	1	6	0	4	38.73	3
1	1	6	0	2	24.27	2.03
0	1	6	0	2	12.76	2.23
1	1	6	0	3	30.06	2
1	1	6	0	4	25.89	5.16
1	0	6	0	4	48.33	9
0	1	6	0	2	13.27	2.5
0	1	6	0	3	28.17	6.5
0	1	6	0	2	12.9	1.1
1	1	6	0	5	28.15	3
1	1	6	0	2	11.59	1.5
1	1	6	0	2	7.74	1.44
0	1	6	0	4	30.14	3.09
1	1	5	1	2	12.16	2.2
0	1	5	1	2	13.42	3.48
1	1	5	1	1	8.58	1.92
0	0	5	1	3	15.98	3
1	1	5	1	2	13.42	1.58
0	1	5	1	2	16.27	2.5
0	1	5	1	2	10.09	2
1	0	6	0	4	20.45	3
1	0	6	0	2	13.28	2.72
0	1	6	0	2	22.12	2.88
1	1	6	0	4	24.01	2
1	1	6	0	3	15.69	3
1	0	6	0	2	11.61	3.39
1	0	6	0	2	10.77	1.47
1	1	6	0	2	15.53	3
1	0	6	0	2	10.07	1.25
1	1	6	0	2	12.6	1
1	1	6	0	2	32.83	1.17
0	0	6	0	3	35.83	4.67
1	0	6	0	3	29.03	5.92
0	1	6	0	2	27.18	2
1	1	6	0	2	22.67	2
1	0	6	0	2	17.82	1.75
0	0	4	0	2	18.78	3

correlation							
	<i>sex</i>	<i>smoker</i>	<i>day</i>	<i>time</i>	<i>size</i>	<i>total_bill</i>	<i>tip</i>
<i>sex</i>	1						
<i>smoker</i>	0.002816	1					
<i>day</i>	0.230791	-0.03265	1				
<i>time</i>	-0.20523	-0.05492	-0.87437	1			
<i>size</i>	0.086195	-0.13318	0.16535	-0.10341	1		
<i>total_bill</i>	0.144877	0.085721	0.173693	-0.18312	0.598315	1	
<i>tip</i>	0.088862	0.005929	0.135499	-0.12163	0.489299	0.675734	1