Size	Total	Bill	Tip	Predicted Tip	Error	Squared Error
	2	- 16.99	1.01	2.629339922	-1.61934	2.622261784
	3	10.34	1.66	2.205394027	-0.54539	0.297454645
	3	21.01	3.5	3.194645331	0.305355	0.093241474
	2	23.68	3.31	3.249592146	0.060408	0.003649109
	4	24.59	3.61	3.719156871	-0.10916	0.011915223
	4	25.29	4.71	3.784056207	0.925944	0.857371908
	2	8.77	2	1.867236294	0.132764	0.017626202
	4	26.88	3.12	3.931470412	-0.81147	0.65848423
	2	15.04	1.96	2.448548916	-0.48855	0.238680043
	2	14.78	3.23	2.424443448	0.805557	0.648921359
	2	10.27	1.71	2.006306299	-0.29631	0.087797423
	4	35.26	5	4.708408175	0.291592	0.085025792
	2	15.42	1.57	2.483779984	-0.91378	0.834993858
	4	18.43	3	3.148042716	-0.14804	0.021916646
	2	14.83	3.02	2.429079115	0.590921	0.349187493
	2	21.58	3.92	3.054894138	0.865106	0.748408152
	3	10.33	1.67	2.204466893	-0.53447	0.28565486
	3	16.29	3.71	2.757038381	0.952962	0.908135847
	3	16.97	3.5	2.82008345	0.679917	0.462286515
	3	20.65	3.35	3.16126853	0.188731	0.035619568
	2	17.92	4.08	2.715563326	1.364437	1.861687438
	2	20.29	2.75	2.935293934	-0.18529	0.034333842
	2	15.77	2.23	2.516229651	-0.28623	0.081927413
	4	39.42	7.58	5.094095656	2.485904	6.179720406
	2	19.82	3.18	2.891718666	0.288281	0.083106128
	4	17.81	2.34	3.090560447	-0.75056	0.563340985
	2	13.37	2	2.293717643	-0.29372	0.086270054
	2	12.69	2	2.230672574	-0.23067	0.053209836
	2	21.70	4.3	3.066019739	1.23398	1.522707285
	2	19.65	3	2.875957398	0.124043	0.015386567
	2	9.55	1.45	1.939552696	-0.48955	0.239661842
	4	18.35	2.5	3.140625649	-0.64063	0.410401222
	2	15.06	3	2.450403182	0.549597	0.302056662
	4	20.69	2.45	3.357574857	-0.90757	0.823692122
	2	17.78	3.27	2.702583458	0.567417	0.321961532
	3	24.06	3.6	3.477421008	0.122579	0.015025609
	3	16.31	2	2.758892648	-0.75889	0.575918051
	3	16.93	3.07	2.816374917	0.253625	0.064325683
	3	18.69	2.31	2.979550389	-0.66955	0.448297724
	3	31.27	5	4.145884167	0.854116	0.729513857
	3	16.04	2.24	2.733860047	-0.49386	0.243897746
	2	17.46	2.54	2.672915191	-0.13292	0.017666448
	2	13.94	3.06	2.346564245	0.713436	0.508990576
	2	9.68	1.32	1.95160543	-0.63161	0.398925419
	4	30.40	5.6	4.257821358	1.342179	1.801443507

2	18.29	2.74986726	0.250133	0.062566387
2	22.23	3.115157807	1.884842	3.552630091
4		6 4.443248032	1.556752	2.423476691
3	28.55 2.0		-1.8437	3.399244036
2		3 2.726688926	0.273311	0.074698943
2	12.54 2.		0.283234	
				0.08022174
2	10.29 2.		0.591839	0.350273916
4	34.81 5.		0.533313	0.284422571
2	9.94 1.5		-0.41571	0.17281555
4	25.56 4.3	3.809088808	0.530911	0.281866694
2	19.49 3.5	2.861123264	0.648877	0.421041018
4	38.01	4.963369851	-1.96337	3.854821173
2	26.41 1.	3.502699555	-2.0027	4.010805509
2	11.24 1.7	2.096238236	-0.33624	0.113056151
4	48.27 6.7	5.914608687	0.815391	0.664862993
2	20.29 3.2	2.935293934	0.274706	0.075463423
2		2 2.334511511	-0.33451	0.111897951
2	11.02 1.9		-0.09584	0.009185555
4	18.29 3.7		0.624937	0.390546443
3	17.59 2.6		-0.23757	0.056437471
3	20.08 3.1		0.041578	0.001728736
2	16.45 2.4		-0.10927	0.011940965
1		1 1.146172479	-0.10927	0.021366394
2				
			-0.91973	0.845905358
2	15.01 2.0		-0.35577	0.126570525
2	12.02 1.9		-0.19855	0.039423944
3		2.829354784	0.170645	0.02911979
2	26.86 3.1		-0.40442	0.163555987
2		3.397933485	1.602067	2.566617119
2	14.73 2.		-0.21981	0.048315461
2	10.51 1.2	2.0285575	-0.77856	0.60615178
2	17.92 3.0	8 2.715563326	0.364437	0.13281409
4	27.20	3.96113868	0.038861	0.001510202
2	22.76	3.164295876	-0.1643	0.026993135
2	17.29 2.7	2.657153923	0.052846	0.002792708
2	19.44	2.856487598	0.143512	0.02059581
2	16.66 3.	2.598744521	0.801255	0.642010342
1	10.07 1.8	3 1.795165837	0.034834	0.001213419
2		4.084012177	0.915988	0.839033691
2	15.98 2.0	2.535699452	-0.5057	0.255731936
4	34.83 5.1		0.501459	0.251460687
2		2 2.262195109	-0.2622	0.068746275
2		4 2.748940127	1.25106	1.565150806
2	24.71 5.8		2.504913	6.274589725
2		3.015954537	-0.01595	0.000254547
2		3.740045698	-0.74005	0.547667635
2	22.49 3.	3.139263275	0.360737	0.130130985

2	5.75	1	1.587242016	-0.58724	0.344853186
2	16.32	4.3	2.567221987	1.732778	3.002519643
2	22.75	3.25	3.163368743	0.086631	0.007504975
4	40.17	4.73	5.163630659	-0.43363	0.188035548
2	27.28	4	3.583360158	0.41664	0.173588758
2	12.03	1.5	2.169481772	-0.66948	0.448205843
2		3		-0.00348	
	21.01		3.002047536		4.19241E-06
2	12.46	1.5	2.209348507	-0.70935	0.503175304
2	11.35	2.5	2.106436703	0.393563	0.154892069
2	15.38	3	2.48007145	0.519929	0.270325697
3	44.30	2.5	5.353938946	-2.85394	8.144967506
2	22.42	3.48	3.132773341	0.347227	0.120566352
2	20.92	4.08	2.993703336	1.086297	1.180040442
2	15.36	1.64	2.478217183	-0.83822	0.702608046
2	20.49	4.06	2.953836601	1.106163	1.223597465
2	25.21	4.29	3.391443551	0.898556	0.807403692
2	18.24	3.76	2.745231593	1.014768	1.029754919
2	14.31	4	2.38086818	1.619132	2.621587852
2	14.00	3	2.352127045	0.647873	0.419739366
1	7.25	1	1.533714227	-0.53371	0.284850876
3	38.07	4	4.776334857	-0.77633	0.60269581
2	23.95	2.55	3.274624747	-0.72462	0.525081024
3	25.71	4	3.630398014	0.369602	0.136605628
2	17.31	3.5	2.65900819	0.840992	0.707267224
4	29.93	5.07	4.21424609	0.855754	0.732314755
2	10.65	1.5	2.041537367	-0.54154	0.29326272
2	12.43	1.8	2.206567106	-0.40657	0.165296812
4	24.08	2.92	3.671873069	-0.75187	0.565313112
2	11.69	2.31	2.137959237	0.172041	0.029598024
2	13.42	1.68	2.29835331	-0.61835	0.382360816
2	14.26	2.5	2.376232513	0.123767	0.015318391
2	15.95	2	2.532918052	-0.53292	0.28400165
2	12.48	2.52	2.211202773	0.308797	0.095355727
6	29.80	4.2	4.587388945	-0.38739	0.150070195
2	8.52	1.48	1.844057959	-0.36406	0.132538198
2	14.52	2	2.40033798	-0.40034	0.160270499
2	11.38	2	2.109218103	-0.10922	0.011928594
3	22.82	2.18	3.36245647	-1.18246	1.398203305
2	19.08	1.5	2.823110796	-1.32311	1.750622179
2		2.83			
	20.27		2.933439667	-0.10344	0.010699765
2	11.17	1.5	2.089748302	-0.58975	0.34780306
2	12.26	2	2.190805839	-0.19081	0.036406868
2	18.26	3.25	2.74708586	0.502914	0.252922632
2	8.51	1.25	1.843130826	-0.59313	0.351804177
2	10.33	2	2.011869099	-0.01187	0.000140876
2	14.15	2	2.366034046	-0.36603	0.133980923
2	16.00	2	2.537553719	-0.53755	0.288964001

2	13.16	2.75	2.274247842	0.475752	0.226340116
2	17.47	3.5	2.673842324	0.826158	0.682536506
6	34.30	6.7	5.004598961	1.695401	2.874384685
5	41.19	5	5.450796057	-0.4508	0.203217085
6	27.05	5	4.332427268	0.667573	0.445653352
2	16.43	2.3	2.577420454	-0.27742	0.076962108
2	8.35	1.5	1.828296692	-0.3283	0.107778718
3	18.64	1.36	2.974914723	-1.61491	2.607949561
2	11.87	1.63	2.154647638	-0.52465	0.275255144
2	9.78	1.73	1.960876764	-0.23088	0.05330408
2	7.51	2	1.750417489	0.249583	0.06229143
2	14.07	2.5	2.358616979	0.141383	0.019989159
2	13.13	2	2.271466442	-0.27147	0.073694029
3	17.26	2.74	2.846970318	-0.10697	0.011442649
4	24.55	2	3.715448338	-1.71545	2.942762999
4	19.77	2	3.272278588	-1.27228	1.618692804
5	29.85	5.14	4.399426817	0.740573	0.548448639
6	48.17	5	6.290532942	-1.29053	1.665475275
4	25.00	3.75	3.757169339	-0.00717	5.13994E-05
2	13.39	2.61	2.29557191	0.314428	0.098865024
4	16.49	2	2.968178843	-0.96818	0.937370272
4	21.50	3.5	3.43267266	0.067327	0.004532971
2	12.66	2.5	2.227891174	0.272109	0.074043213
3	16.21	2	2.749621314	-0.74962	0.561932114
2	13.81	2	2.334511511	-0.33451	0.111897951
2	17.51	3	2.677550858	0.322449	0.103973449
3	24.52	3.48	3.520069143	-0.04007	0.001605536
2	20.76	2.24	2.978869202	-0.73887	0.545927698
4	31.71	4.5	4.379275829	0.120724	0.014574325
2	10.59	1.61	2.035974567	-0.42597	0.181454331
2	10.63	2	2.0396831	-0.03968	0.001574748
3	50.81	10	5.957502768	4.042497	16.34178387
2	15.81	3.16	2.519938185	0.640062	0.409679127
2	7.25	5.15	1.726312022	3.423688	11.72163937
2	31.85	3.18	4.007060108	-0.82706	0.684028422
2	16.82	4	2.613578655	1.386421	1.922164146
2	32.90	3.11	4.104409111	-0.99441	0.988849481
2	17.89	2	2.712781926	-0.71278	0.508058073
			2.396629447		0.308038073
2	14.48	2		-0.39663	
2	9.60		1.944188363	2.055812	4.226361486
2	34.63	3.55	4.264803184	-0.7148	0.510943592
4	34.65	3.68	4.65185304	-0.97185	0.944498331
2	23.33	5.65	3.217142478	2.432858	5.918795723
3	45.35	3.5	5.451287949	-1.95129	3.807524661
4	23.17	6.5	3.587503933	2.912496	8.482633342
2	40.55	3	4.813666138	-1.81367	3.289384861
5	20.69	5	3.550172652	1.449827	2.10199934

3	20.90	3.5	3.184446864	0.315553	0.099573782
5	30.46	2	4.455981953	-2.45598	6.031847352
3	18.15	3.5	2.929485187	0.570515	0.325487151
3	23.10	4	3.388416205	0.611584	0.374034739
2	15.69	1.5	2.508812584	-1.00881	1.017702831
2	19.81	4.19	2.890791532	1.299208	1.687942643
2	28.44	2.56	3.690907629	-1.13091	1.278952066
2	15.48	2.02	2.489342784	-0.46934	0.220282649
2	16.58	4	2.591327454	1.408673	1.984358341
2	7.56	1.44	1.755053156	-0.31505	0.099258491
2	10.34	2	2.012796232	-0.0128	0.000163744
4	43.11	5	5.436207869	-0.43621	0.190277305
2	13.00	2	2.259413708	-0.25941	0.067295472
2	13.51	2	2.30669751	-0.3067	0.094063363
3	18.71	4	2.981404656	1.018595	1.037536475
2	12.74	2.01	2.235308241	-0.22531	0.050763803
2	13.00	2	2.259413708	-0.25941	0.067295472
2	16.40	2.5	2.574639054	-0.07464	0.005570988
4	20.53	4	3.342740724	0.657259	0.431989756
3	16.47	3.23	2.773726782	0.456273	0.20818525
3	26.59	3.41	3.71198575	-0.30199	0.091195393
4	38.73	3	5.030123454	-2.03012	4.121401238
2	24.27	2.03	3.304293015	-1.27429	1.623822687
2	12.76	2.23	2.237162508	-0.00716	5.13015E-05
3	30.06	2	4.033701029	-2.0337	4.135939876
4	25.89	5.16	3.839684209	1.320316	1.743233788
4	48.33	9	5.920171487	3.079829	9.485343667
2	13.27	2.5	2.284446309	0.215554	0.046463394
3	28.17	6.5	3.858472823	2.641527	6.977665829
2	12.90	1.1	2.250142375	-1.15014	1.322827482
5	28.15	3	4.241814145	-1.24181	1.54210237
2	11.59	1.5	2.128687903	-0.62869	0.39524848
2	7.74	1.44	1.771741557	-0.33174	0.11005246
4	30.14	3.09	4.233715891	-1.14372	1.308086038
2	12.16	2.2	2.181534505	0.018465	0.000340974
2	13.42	3.48	2.29835331	1.181647	1.3962889
1	8.58	1.92	1.657022965	0.262977	0.069156921
3	15.98	1 50	2.728297247	0.271703	0.073822386
2	13.42	1.58	2.29835331	-0.71835	0.516031478
2	16.27	2.5	2.56258632	-0.06259	0.003917047
2	10.09	2	1.989617898	0.010382	0.000107788
2	20.45	3	3.335323657	-0.33532	0.112441955
2	13.28	2.72	2.285373443	0.434627	0.188900244
2	22.12	2.88	3.10495934 3.665383136	-0.22496	0.050606705
3	24.01 15.69	3	2.701410379	-1.66538 0.29859	2.773500989 0.089155762
2			2.13054217	1.259458	1.586234025
Z	11.61	3.39	2.13034217	1.235438	1.300234025

2	10.77	1.47	2.052662967	-0.58266	0.339496133
2	15.53	3	2.493978451	0.506022	0.256057808
2	10.07	1.25	1.987763631	-0.73776	0.544295176
2	12.60	1	2.222328374	-1.22233	1.494086653
2	32.83	1.17	4.097919178	-2.92792	8.572710712
3	35.83	4.67	4.568656983	0.101343	0.010270407
3	29.03	5.92	3.938206292	1.981794	3.9275063
2	27.18	2	3.574088825	-1.57409	2.477755628
2	22.67	2	3.155951676	-1.15595	1.336224276
2	17.82	1.75	2.706291992	-0.95629	0.914494374
2	18.78	3	2.795296795	0.204703	0.041903402

Error =\$C2-\$D2 **Squared Error**

=\$E2^2

Predicted Tip

=\$J\$23*\$A2+\$J\$24*\$B2+\$J\$22

Regression St	tatistics
Multiple R	0.684009729
R Square	0.467869309
Adjusted R Square	0.463453286
Standard Error	1.013505967
Observations	244

SUMMARY OUTPUT

ANOVA

	df	SS	MS	F	Significance F
Regression	2	217.6586	108.8293	105.9481301	9.66509E-34
Residual	241	247.5538	1.027194		
Total	243	465.2125			

	Coefficients anda	rd Errı t Stat	P-value	Lower 95%	Upper 95%	ower 95.0%
Intercept	0.668944741 0.19	3609 3.455127	0.000649806	0.287562197	1.050327	0.287562
Size	0.192597794 0.08	5315 2.257502	0.024872446	0.024540385	0.360655	0.02454
Total_Bill	0.092713337 0.00	9115 10.17187	1.88092E-20	0.074758723	0.110668	0.074759

Mean of Tip

2.998278689 =AVERAGE(Table2[Tip])

Mean Square Error (MSE)

1.014564906 =AVERAGE(F2:F245)

Root Mean Square Error (RMSE)

1.007256127 =SQRT(M31)

Error Percentage

0.335944798 =\$M\$33/\$M\$28

33%

CORRELATION COEFFICIENTS Male Smoker Friday Saturday Sunday Dinner Male 1 Smoker 0.002816 1 Friday -0.07106 0.244316 1 Saturday $0.053957 \quad 0.155744 \quad -0.21632$ 1 Sunday 0.168106 -0.18162 -0.19545 -0.50068 1 0.205231 0.054921 -0.05816 0.462709 0.418071 Dinner 0.086195 -0.13318 -0.14218 -0.04112 0.193054 0.103411 Size Total_Bill

Size and Total_Bill are having medium correlation with Tip.

-0.00279 0.125114 0.121629

0.088862 0.005929 -0.05546

Tip

Ipper 95.0% 1.050327 0.360655 0.110668

Size	Total_Bill	Tip

1 0.598315 1 **0.489299 0.675734** 1

So Its good to use Size and Total_Bill to predict Tip.