Y Price	X1 Bedrooms	X2 Size	X3 Pool	X4 ER-Distance	X5 School-Distance	X6 Garage	X7 Baths
263.1	4	2300	1	17	5	1	2
182.4	4	2100	0	19	4	0	2
242.1	3	2300	0	12	3	0	2
213.6	2	2200	0	16	2	0	2.5
139.9	2	2100	0	28	1	0	1.5
245.4	2	2100	1	12	1	1	2
327.2	6	2500	0	15	3	1	2
271.8	2	2100	0	9	2	1	2.5
221.1	3	2300	1	18	1	0	1.5
266.6	4	2400	0	13	4	1	2
292.4	4	2100	0	14	3	1	2
209	2	1700	0	8	4	1	1.5
270.8	6	2500	0	7	4	1	2
246.1	4	2100	0	18	3	1	2
194.4	2	2300	0	11	3	0	2
281.3	3	2100	0	16	2	1	2
172.7	4	2200	1	16	3	0	2
207.5	5	2300	1	21	4	0	2.5
198.9	3	2200	1	10	4	1	2
209.3	6	1900	1	15	4	1	2
252.3	4	2600	0	8	4	1	2
192.9	4	1900	1	14	2	1	2.5
209.3	5	2100	0	20	5	0	1.5
345.3	8	2600	0	9	4	1	2
326.3	6	2100	0	11	5	1	3
173.1	2	2200	1	21	5	1	1.5
187	2	1900	0	26	4	0	2
257.2	2	2100	0	9	4	1	2
233	3	2200	0	14	3	1	1.5
180.4	2	2000	0	11	5	0	2
234	2	1700	0	19	3	1	2
207.1	2	2000	0	11	5	1	2
247.7	5	2400	0	16	2	1	2
166.2	3	2000	1	16	2	1	2
177.1	2	1900	0	10	5	1	2
182.7	4	2000	1	14	4	0	2.5
216	4	2300	0	19	2	0	2
312.1	6	2600	0	7	5	1	2.5
199.8	3	2100	0	19	3	1	2
273.2	5	2200	0	16	2	1	3
206	3	2100	1	9	3	0	1.5
232.2	3	1900	1	16	1	1	1.5
198.3	4	2100	1	19	1	1	1.5
205.1	3	2000	1	20	4	0	2

175.6	4	2300	1	24	4	1	2
307.8	3	2400	1	21	2	1	3
269.2	5	2200	0	8	5	1	3
224.8	3	2200	0	17	1	1	2.5
171.6	3	2000	1	16	4	0	2
216.8	3	2200	0	15	1	1	2
192.6	6	2200	1	14	1	0	2
236.4	5	2200	0	20	3	1	2
172.4	3	2200	0	23	3	0	2
251.4	3	1900	0	12	2	1	2
246	6	2300	0	7	3	1	3
147.4	6	1700	1	12	1	0	2
176	4	2200	0	15	1	1	2
228.4	3	2300	0	17	5	1	1.5
166.5	3	1600	1	19	3	0	2.5
189.4	4	2200	0	24	1	1	2
312.1	7	2400	0	13	3	1	3
289.8	6	2000	0	21	3	1	3
269.9	5	2200	1	11	4	1	2.5
154.3	2	2000	0	13	2	0	2
222.1	2	2100	0	9	5	1	2
209.7	5	2200	1	13	2	1	2
190.9	3	2200	1	18	3	1	2
254.3	4	2500	1	15	3	1	2
207.5	3	2100	1	10	2	0	2
209.7	4	2200	1	19	2	1	2
294	2	2100	0	13	2	1	2.5
176.3	2	2000	1	17	3	0	2
294.3	7	2400	0	8	4	1	2
224	3	1900	1	6	1	1	2
125	2	1900	0	18	4	0	1.5
236.8	4	2600	1	17	5	1	2
164.1	4	2300	0	19	4	0	2
217.8	3	2500	0	12	3	0	2
192.2	2	2400	0	16	2	0	2.5
125.9	2	2400	0	28	1	0	1.5
220.9	2	2300	1	12	1	1	2
294.5	6	2700	0	15	3	1	2
244.6	2	2300	0	9	2	1	2.5
199	3	2500	1	18	1	0	1.5
240	4	2600	0	13	4	1	2
263.2	4	2300	0	14	3	1	2
188.1	2	1900	0	8	4	1	1.5
243.7	6	2700	0	7	4	1	2
221.5	4	2300	0	18	3	1	2
175	2	2500	0	11	3	0	2
253.2	3	2300	0	16	2	1	2

155.4	4	2400	1	16	3	0	2
186.7	5	2500	1	21	4	0	2.5
179	3	2400	1	10	4	1	2
188.3	6	2100	1	15	4	1	2
227.1	4	2900	0	8	4	1	2
173.6	4	2100	1	14	2	1	2.5
188.3	5	2300	0	20	5	0	1.5
310.8	8	2900	0	9	4	1	2
293.7	6	2400	0	11	5	1	3
179	3	2400	0	8	4	1	2
188.3	6	2100	1	14	2	1	2.5
227.1	4	2900	0	20	5	0	1.5
173.6	4	2100	0	9	4	1	2
188.3	5	2300	0	11	5	1	3

Numerical Description

mean	221.1029	3.8	2223.81	0.361905	14.6285714	3.104761905	0.67619	2.080952
median	213.6	4	2200	0	15	3	1	2
mode	188.3	4	2100	0	16	4	1	2
		3						
sample std	47.1054	1.502562	248.6594	0.482856	4.8739045	1.285449708	0.470173	0.39299
min	125	2	1600	0	6	1	0	1.5
q1	186.85	3	2100	0	11	2	0	2
q3	251.85	5	2400	1	18	4	1	2
max	345.3	8	2900	1	28	5	1	3
iqr	65	2	300	1	7	2	1	0

Confidence Interval

alpha	0.05							
sample size	105	105	105	105	105	105	105	105
MoE	9.009987	0.287399	47.56181	0.092357	0.93224585	0.245871693	0.089931	0.075168
lower inter	212.0929	3.512601	2176.248	0.269547	13.6963256	2.858890212	0.586259	2.005784
upper inter	230.1128	4.087399	2271.371	0.454262	15.5608173	3.350633598	0.766122	2.156121

I am 0195% confident that mean of home prices falls between $212.09 and $230.11, the mean of bedrooms falls

Validity of Regression

Ho: all population slopes = 0 *no relationship*
Ha: at least one population slope ≠ 0 *relationship*

p-values	lvl of sig
0.005377	0.05
0.010264	0.05
0.00861	0.05
0.175124	0.05
0.520956	0.05
0.000012	0.05
0.01236	0.05

At least one p-value is less than the level of significance, we can reject Ho

At the 5% level of significance, we can conclude that there is a relationship between the dependent variable and

ReMax Real Estate collected data of select homes in Oxnard,CA.
Price is in hundreds of thousands
ER-Distance (number of miles to the nearest ER)
School-Distance (number of miles to the nearest elementary school)

Regression   **Regression**
SUMMARY OUTPUT   y = 62.248(

	Regression Statistics
Correlation Coefficient Multiple R	0.730476
R Square	0.533595
Adjusted R	0.499937
Standard E	33.31064
Observatic	105

ANOVA

	df	SS	MS	F
Regression	7	123136.5	17590.93	15.85341
Residual	97	107631.1	1109.599	
Total	104	230767.6		

	Coefficients	andard Err	t Stat	P-value
Intercept	62.24869	40.91404	1.521451	0.1314
Bedrooms	7.375498	2.590021	2.847659	0.005377
Size	0.038627	0.014755	2.617956	0.010264
Pool	-19.1114	7.126553	-2.68172	0.00861
ER-Distanc	-1.01267	0.741385	-1.36592	0.175124
School-Dis	-1.73901	2.699416	-0.64422	0.520956
Garage	35.49802	7.675838	4.624644	1.16E-05
Baths	23.09255	9.058308	2.549322	0.01236

RESIDUAL OUTPUT

Observatior	edicted Pri	Residuals
1	217.2539	45.84606
2	192.8556	-10.4556
3	202.0332	40.06678
4	200.0296	13.57037
5	162.6614	-22.7614
6	206.7969	38.60307
7	264.3451	62.85488
8	238.7536	33.04636
9	168.7775	52.32249

10	246.0178	20.58224
11	235.156	57.24399
12	197.745	11.25503
13	270.7075	0.092539
14	231.1053	14.99467
15	195.6704	-1.27039
16	227.4942	53.80582
17	182.3839	-9.68391
18	198.366	9.133979
19	214.8434	-15.9434
20	220.3185	-11.0185
21	258.8065	-6.50649
22	221.6045	-28.7045
23	185.9332	23.36681
24	287.2958	58.00419
25	272.5595	53.74046
26	183.0433	-9.9433
27	163.2906	23.70943
28	223.7294	33.47065
29	220.0969	12.90306
30	180.6043	-0.20429
31	199.8909	34.10911
32	216.1023	-9.00231
33	253.8333	-6.13326
34	204.52	-38.32
35	213.2523	-36.1523
36	186.4911	-3.79112
37	204.059	11.94095
38	284.3774	27.72258
39	222.7172	-22.9172
40	269.2004	3.999581
41	166.6881	39.31188
42	190.8501	41.34992
43	202.913	-4.61297
44	161.4933	43.60666
45	211.9043	-36.3043
46	238	69.79997
47	272.0847	-2.88475
48	243.6295	-18.8295
49	165.544	6.055989
50	234.1086	-17.3086
51	202.6383	-10.0383
52	240.3182	-3.91819
53	187.0312	-14.6312
54	223.8195	27.58053
55	287.8136	-41.8136
56	185.3501	-37.9501

57	241.4841	-65.4841
58	217.4436	10.95639
59	160.3405	6.159497
60	232.37	-42.97
61	292.9758	19.1242
62	262.0482	27.75183
63	240.128	29.77197
64	183.796	-29.496
65	221.9903	0.109656
66	230.0344	-20.3344
67	208.4811	-17.5811
68	230.4827	23.81732
69	178.9607	28.53927
70	216.5829	-6.88293
71	234.703	59.29704
72	158.8949	17.40515
73	273.2076	21.09241
74	212.523	11.47695
75	159.8456	-34.8456
76	228.842	7.957977
77	200.581	-36.481
78	209.7586	8.041387
79	207.755	-15.555
80	174.2495	-48.3495
81	214.5223	6.377683
82	272.0705	22.42949
83	246.479	-1.87903
84	176.5029	22.4971
85	253.7431	-13.7431
86	242.8814	20.3186
87	205.4704	-17.3704
88	278.4329	-34.7329
89	238.8307	-17.3307
90	203.3958	-28.3958
91	235.2196	17.98043
92	190.1093	-34.7093
93	206.0914	-19.3914
94	222.5688	-43.5688
95	228.0439	-39.7439
96	270.3946	-43.2946
97	229.3298	-55.7298
98	193.6586	-5.35858
99	298.8839	11.9161
100	284.1476	9.552371
101	243.7056	-64.7056
102	244.0808	-55.7808

| 103	209.4593	17.64075
104	238.4803	-64.8803
105	272.9094	-84.6094

Model

59 + 7.375498X1 + 0.038627X2 - 19.1114X3 - 1.01267X4 - 1.73901X5 + 35.49802X6 + 23.09255X7

ignificance F

   1.01E-13

| Lower 95%	Upper 95%	ower 95.0%	Ipper 95.0%
-18.9544	143.4517	-18.9544	143.4517
2.235023	12.51597	2.235023	12.51597
0.009343	0.067911	0.009343	0.067911
-33.2557	-4.96721	-33.2557	-4.96721
-2.48411	0.458775	-2.48411	0.458775
-7.0966	3.618586	-7.0966	3.618586
20.2636	50.73243	20.2636	50.73243
5.114313	41.07078	5.114313	41.07078

Graphical Description

Bedrooms Line Fit Plot

Size Line Fit Plot

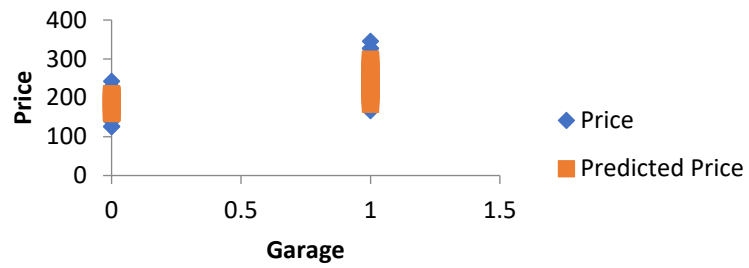Pool Line Fit Plot

ER-Distance Line Fit Plot
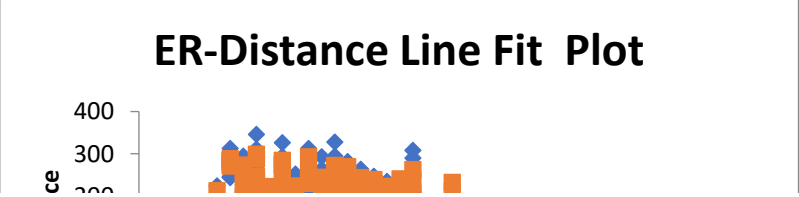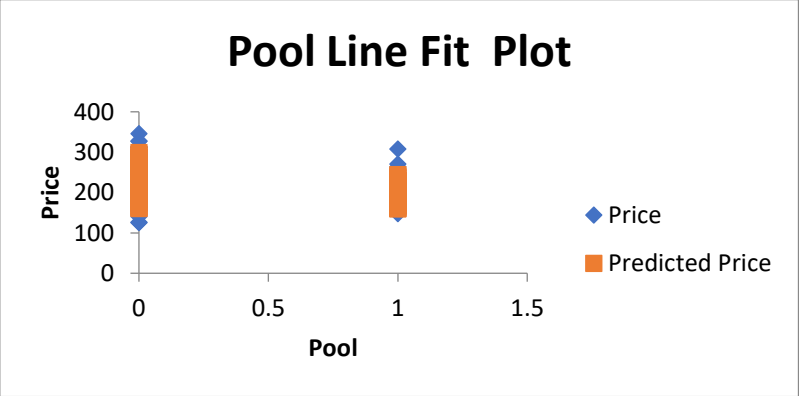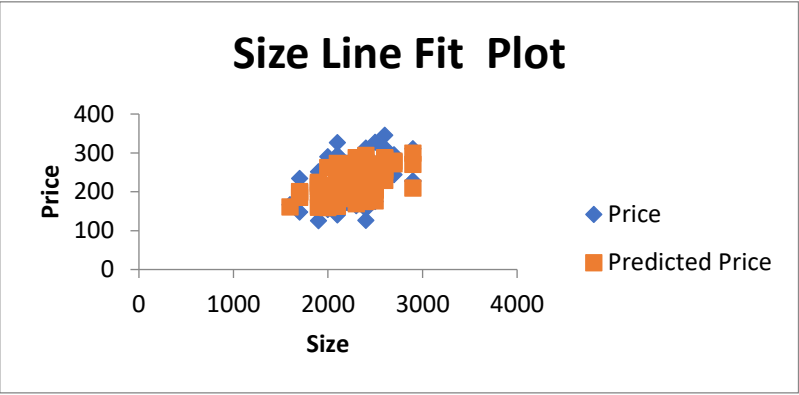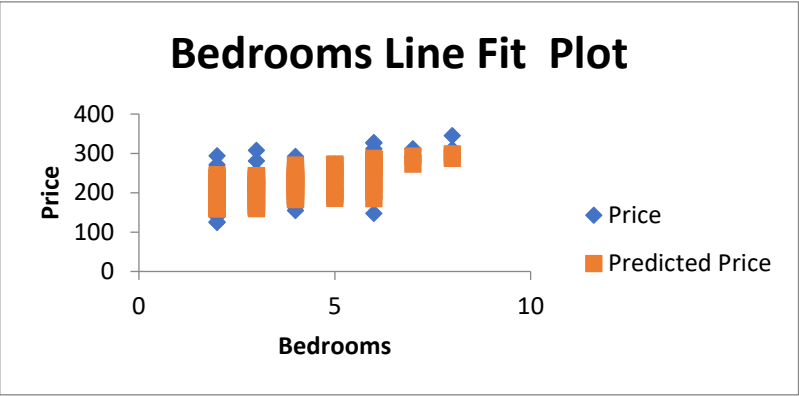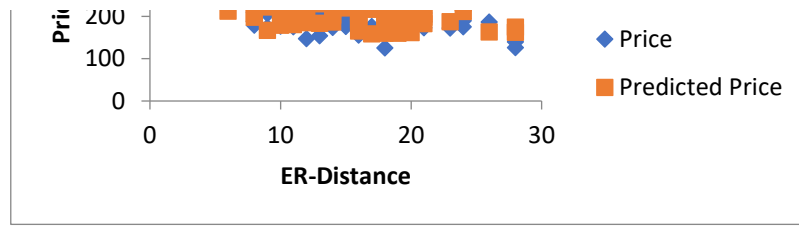
School-Distance Line Fit Plot
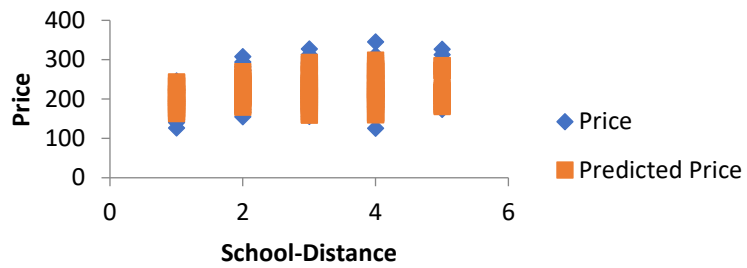
Garage Line Fit Plot

Baths Line Fit Plot