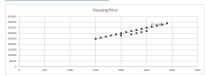
uare Footagi	Bedrooms		Bathrooms	Housing Pri
1500		3	2	250000
2000		4	2.5	300000
1800		3	2	280000
2200		4	3	320000
1900		3	2.5	290000
2100		4	3	310000
1600		3	2	260000
2300		4	3.5	330000
1700		3	2.5	270000
2400		4	3.5	340000
2000		3	2	280000
2500		4	4	350000
2200		3	2.5	290000
2600		4	4	360000
2300		3	3	300000
2700		4	4	370000
2400		3	3	310000
2800		4	4.5	380000
2500		3	3	320000

4 December Statistics

Source Footage		Bedrooms		Bathrooms		Housing Price	
fean	2220	Mean	3.5	Mean	3.05	Mean	315000
tandard Error	88.4367154	Standard Error	0.114708	Standard Error	0.184604841	Standard Error	8958.971
fedian	2250	Median	3.5	Median	3	Median	310000
fode	2000	Mode	3	Mode	3	Mode	300000
tandard Deviation	395.5010147	Standard Deviation	0.512989	Standard Deviation	0.825577947	Standard Deviation	at 40065.74
ample Variance	156421.0526	Sample Variance	0.263158	Sample Variance	0.681578947	Sample Variance	1.61E+09
urtosis	-0.729943996	Kurtosis	-2.23529	Kurtosis	-0.958682962	Kurtosis	-0.74502
kewness	-0.142245936	Skewness	0	Skewness	0.369461546	Skewness	0.327331
lange	1400	Range	1	Range	2.5	Range	140000
Snimum	1500	Minimum	3	Minimum	2	Minimum	250000
faximum	2900	Maximum	4	Maximum	4.5	Maximum	390000
um	44400	Sum	70	Sum	61	Sum	6300000
count	20	Count	20	Count	20	Count	20

2. Visualize relationship between variable

Source Footage and Housing Prin



Bedrooms and Housing Pr

		Housing	Price				
50000							
30000							
50000					R*+0	5992.4	
10000						_	
50000				_			
10000							
50000							
30000							
50000							

Rathrooms and Housing Prin

		Ho	using Price				
150000							
100000					R* - Q	2421-8	
50000							
100000		-					
150000			•				
00000							
50000							
20000							
50000							

3.Perform Multiple Linear Regress

SUMMARY OUTPUT

Regression Statistics					
Multiple R	0.990059711				
RSquare	0.980218231				
Adjusted R Square	0.976509149				
Standard Error	6140.765198				
Observations	20				

ANOVA

	ď	SS	MS	F	Simificance F
Regression	3	29896656045	9.97E+09	284.2751797	7.75918E-14
Residual	16	603343955.5	37708997		
Total	19	30500000000			

	Coefficients	Standard Error	r Star	P-value	Lower 95%	Upper 95%	.ower 95.09	laper 95.0
Intercept	96723.206	15087.55646	6.410793	8.61974E-06	64739.01512	128707.3969	64739.02	128707.4
Square Footage	48.80803517	9.352105371	5.218936	8.4386E-05	28.98245744	68.63361291	28.98246	68.63363
Bedrooms	15117.58299	4351.711991	3.473939	0.003131227	5892.365683	24342.8003	5892.366	24342.1
Bathrooms	18692.26736	5395.683114	3.4643	0.003195611	7253.93013	30130.60458	7253.93	30130.6

5. Prediction

Intercept	96723.206
Square Footage slope	48.80803517
Bedrooms slope	15117.58296
Bathrooms slope	18692.26736

predict the Housing Price for a new property with the following character Square Footage 2000 Bedrooms 3

Predicted Housing Price = Intercept + (Square Footage x Slope of Square Footage) + (Number of Bedrooms x Slope of Bedrooms) + (Number of

Predicted Price = 96723.21 + (2000 x 48.80804) + (3 x 15117.58) + (2.5 x 18692.27)

Predicted Housing price 286422.6937