

















Statistical Relationship between Variables • To investigate this further, she randomly selected

twelve recent alumni, and collected data on the annual salaries of these individuals, along with information on the variables mentioned above. At this time, we look at a portion of the collected data.



Regression Analysis											
Example Data Set											
 Here is the full data set acquired by the advisor: 											
SAT	GPA	# Drinks/Week	Yrs. exp.	Major	Salary						
1400	3.16	8	4	Engineering	82						
1725	2.87	10	7	English	101						
1681	2.93	0	10	Biology	149						
1706	2.26	5	4	English	56						
1668	3.07	0	7	Biology	105						
1709	2.97	0	7	Statistics	104						
1684	2.93	0	6	Business	30						
1689	2.87	0	7	Engineering	105						
1743	2.78	9	5	Biology	71						
1739	2.86	16	2	Business	24						
1692	3.43	0	2	English	30						
1696	2.78	5	5	Biology	74						
MA 214											







































Regression Analysis Computations of Slope and Intercept											
• Example Fit the least square line to the data in example 1.											
ID	х	Y	X ²	Y ²	XY						
1	4	82	16	6,724	328						
2	7	101	49	10,201	707						
3	10	149	100	22,201	1490						
4	4	56	16	3,136	224						
5	7	105	49	11,025	735						
6	7	104	49	10,816	728						
7	6	30	36	900	180						
8	7	105	49	11,025	735						
9	5	71	25	5,041	355						
10	2	24	4	576	48						
11	2	30	4	900	60						
12	5	74	25	5,476	370						
Total	66	931	422	88021	5960						
		MA 21	14			33					













































































