

[illegible]

Exercise 4

	Statistics for Variable Rank					
	N	Mean	Standard Deviation	Median	Minimum	Maximum
Undergraduate Enrollment						
< 5,000	40	127.98	66.99	146	7	220
5,000 to 9,999	59	87.54	71.43	82	1	220
10,000 to 14,999	31	149.23	63.03	159	15	220
15,000 to 24,999	59	128.86	55.37	135	23	220
25,000 to 34,999	32	93.44	55.38	83	20	220
35,000 or more	10	82.70	40.51	72	50	176

Exercise 5

[Insert Proc Contents output here by copying and pasting the table titled 'Alphabetic List of Variables and Attributes']

Alphabetic List of Variables and Attributes						
#	Variable	Type	Len	Format	Informat	Label
5	in_state	Num	8	FEEFMT.	COMMA10.	Annual In-state Tuition and Fees
2	location	Char	50			University Location
1	name	Char	50			University Name
6	rank	Num	8			University Rank
3	tuition_and_fees	Num	8	FEEFMT.	COMMA10.	Annual Tuition and Fees
4	undergrad_enrollment	Num	8		COMMA10.	Undergraduate Enrollment run

Exercise 6

[Insert code used to accomplish this exercise. This will typically consist of a proc format step and a data step]

```

*Exercise6;
libname myfmts "~/nonshare/Formats/";
proc format library=myfmts;
value $genderfmt "M"="male"
               "F"="female";
value yesnofmt 1="No"
               2="Yes";

run;

data lung_cancer;

infile "~/my_shared_file_links/u5338439/survey_lung_cancer.csv" dsd firstobs=2;
input gender $
      age
      smoking
      yellow_fingers
      anxiety
      peer_pressure
      chronic_disease
      fatigue
      allergy
      wheezing
      alcohol
      coughing
      shortness_of_breath
      swallowing_difficulty
      chest_pain
      lung_cancer $;

format gender $genderfmt.
       coughing yesnofmt.;
run;

proc freq data=lung_cancer;
tables gender*anxiety*lung_cancer/list;
tables (gender anxiety)*lung_cancer/list;
run;

```

Exercise 7

	Lung Cancer		No Lung Cancer	
	<i>N</i>	% ¹	<i>N</i>	% ²
Risk Factors				
Smoking	115	85.19	20	14.81

Anxiety	128	82.58	27	17.42
Peer Pressure	125	81.17	29	18.83
Alcohol	105	76.64	32	23.26
Percentages should reflect the percentage of all Lung Cancer ¹ /No Lung Cancer ² observations that had value “Yes” for the risk factor listed in the corresponding row.				
