ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Project requirements: PR3B	1
1	1	0	0	0	5	1	75	7	Compare percentages using likely grammar	
2	0	0	1	0	1	1	58	6		3
3	1	0	0	0	3	4	76	5	This demo uses the symbols (row #1, Q2, etc)	4
4	0	1	1	1	3	2	89	6	and the practice questions	5
5	0	1	1	1	4	4	77 70	7		6
6	1	0	1	0	3	4	73	6	Q1-Q4 are binary with values of zero and one.	7
7	1	0	0	0	4	1	72	6	1 stands for YES; 0 stands for NO	8
8 9	1 1	0 0	0 0	0 0	4 4	1 3	88 90	6 6		9 10
10	1	0	0	0	3	4	39	5		11
11	1	0	0	Ö	5	2	40	4	ASSIGNMENT:	12
12	1	1	1	0	5	5	68	9	1) Create specified pivot tables using demo data.	13
13	1	1	1	1	5	1	71	8	Tables are indexed by Q1 (row) & Q2 (col)	14
14	1	0	1	0	3	1	98	4	Identify the common part rows/cols.	15
15	1	1	0	1	3	1	80	7	Select CP:R* or CP:C* for comparison.	16
16	0	0	1	0	4	1	93	6		17
17	0	0	1	0	3	1	41	6		18
18	1	0	1	1	4	2	42	8	2) Form arithmetic comparisons of the CP numbers.	19
19	1	0	0	0	3	3	39	6	Show all four kinds of comparisons	20
20	0	1	0	0	4	2	65	7		21
21	0	0	0	0	4	2	70	6	3) Compare matching values using likely grammar.	22
22	1	0	1	0	5	4	55	6	Can use "prevalentamong"	23
23 24	1 1	1 0	0 1	0 0	4 5	2 2	74 36	6 4	Do not show symbols such as row #1 or Q2. Use both "likely to" and "likely among"	24 25
24 25	0		1	0	4	4	65	5	Ose both likely to and likely among	
26 26	1	0 1	1	1	5	2	49	7		26 27
27	0	1	1	1	1	2	89	7	Population: Students	28
28	0	1	1	1	4	4	64	4	Questions	29
29	0	0	0	0	5	3	82	5	Q1 Are you female?	30
30	0	1	1	0	4	1	82	4	Q2 Are you a senior?	31
31	1	1	0	0	5	1	76	6	Q3 Do you live on campus?	32
32	1	0	0	0	3	1	92	4	Q4 Are you a business major?	33
33	0	1	1	1	3	4	75	7	Q7 What is your height	34
34	1	0	0	0	5	5	62	4	Q8 Years in college?	35
35	1	0	0	0	5	4	54	7		36
36	1	0	0	0	5	5	68	5		37
37	0	1	1	1	3	1	80	5	Common-part comparison:	38
38	1	1	0	1	5	5	60	6	Two percentages having a common-part	39
39	0	0	0	0	4	2	83	6	100% table: common row or column.	40
40	1	1	0	0	4	2	61	8	2-way table: common row or column	41
										42 43
									Total cell : the cell in the total column and total row	43 44
									Margin cell: a cell in a total column or total row.	44 45
									Body cell: a cell not in a total col and not in total row.	46
									200, con a con not in a total col and not in total low.	47
										48
										49
										50

50 51

PR3B: COMPARE PERCENTAGES IN TABLES USING LIKELY GRAMMAR

Construct a 100% row tables for Q2 by Q1. Compare common-part numbers using all 4 arithmetic comparisons. Using "% more", compare two common-part body percentages using "likely to" and "likley among" grammars.

Count of Q1		Q2		
Q1		0	1	Total
	0	47%	53%	100%
	1	68%	32%	100%
Total		60%	40%	100%

CP: C2 Arithmetic comparisons of selected numbers 53% is 19 percentage points more than 32% 53% is 1.66 times as much as 32% 53% is 66% more than 32% 53% is 0.66 times more than 32%

CP:C1 CP: C2

Likely-to Symbolic: Row #1 subjects are 66% more likely to be in Col #2 than [are] Row #2 subjects.

Symbolic: Those saying No to Q1 are 66% more likely to say Yes to Q2 than those saying Yes to Q1.

Reality: Among students, men are 66% more likely to be seniors than [are] women

Likely...among Symbolic: Being in Col #2 is 66% more likely among Row #1 than [among] Row #2.

Symbolic: Saying Yes to Q2 is 66% more likely among No to Q1 than [among] Yes to Q1.

Reality: Being a senior is 66% more likely among males than [among] females

Construct a 100% column table for Q1 by Q2. Compare common-part numbers using all 4 arithmetic comparisons. Using "% more", compare two common-part body percentages using "likely to" and "likley among" grammars.

Count of Q1		Q2			
Q1		0	1	Total	
()	29%	50%	38%	CP:R1
·	1	71%	50%	63%	CP:R2
Total	ı	100%	100%	100%	

CP:R2 Arithmetic comparisons of selected numbers 71% is 21 percentage points more than 50% 71% is 1.42 times as much as 50% 71% is 42% more than 50% 71% is 0.42 times more than 50%

Likely-to Symbolic: Col #1 subjects are 42% more likely to be in Row #2 than [are] Col #2 subjects.

Symbolic: Those saying No to Q2 are 42% more likely to say Yes to Q1 than those saying Yes to Q2.

Reality: Among students, non-seniors are 42% more likely to be female than [are] seniors.

Likely...among Symbolic: Being in row #2 is 42% more likely among Col #1 subjects than [among] Col #2 subjects. Symbolic: Saying Yes to Q1 is 42% more likely among No to Q2 subjects than [among] Yes to Q2. Reality: Women 42% more likely among non-seniors than [among] seniors

Construct a two way half table of Q3 indexed by Q1 and Q2

Using "% more", compare two common-part body percentages using "likely to" and "likley among" grammars.

Average of Q3	Q2			
Q1	0	1	Total	
0	57%	88%	73%	CP:R1
1	29%	38%	32%	CP:R2
Total	38%	63%	48%	

CP:R1 Arithmetic comparisons of selected numbers 88% is 31 percentage points more than 57% 88% is 1.54 times as much as 57% 88% is 54% more than 57% 88% is 0.54 times more than 56%

CP:C1 CP: C2

Likely-to Symbolic: Among Row #1 subjects, Col #2 are 54% more likely to be Q3=Yes than [are] Col #1.

S: Among No to Q1, Yes to Q2 are are 54% more likely to say Yes to Q3 than those saying No to Q2.

Reality: Among male students, seniors are 54% more likely to live on campus than [are] non-seniors.

Likely...among Symbolic: Among row #1, saying Yes to Q3 are 54% more likely among Col #2 than [among] Col #1. S: Among Yes to Q1, saying Yes to Q3 is 54% more likely among No to Q1 than [among] Yes to Q1. Reality: Among male students, living on campus is 54% more likely among sniors than non-seniors.