

SESSION 2020/2021 SEMESTER 2

SECI2143 – PROBABILITY AND STATISTICAL DATA ANALYSIS DR NOR AZIZAH ALI

PROJECT 2

SECTION: 05

GROUP: F

NO	NAME	MATRIC NUMBER
1.	NURIN FARZANAH BINTI MOHD HILMI	A20EC0122
2.	NURUL HUDA BINTI NOR DIN	A20EC0126
3.	NAFIS AHMED	A20EC4044
4.	SHAH SAJID	A20EC4050

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INTRODUCTION

In this project 2, we will practise and use all of the knowledge about inferential statistic that we learn throughout the semester. There are four inferential statistics that will be used in this project which are hypothesis testing on two sample, correlation, analysis of variance (ANOVA) and chi square test (one way contingency). Other than that, all test will be calculated by using R Studio since the objective of this project is to apply the uses of R Studio in calculation of four inferential statistic.

DATASET

The secondary data set that we choose is from the American Community Survey 2010-2012. This data set is about how many people who got employed based on their major and major category. This data set includes the major, major category, total of college graduates per major, the total of the employed, employed full time and unemployed college graduates per major. Firstly, for hypothesis testing on two sample, we will study about the differences proportion of college graduates that got employed between Architecture major and Computer Science major. Secondly, for chi square test (one way contingency), the differences proportion of employed college graduates between five majors (General Agriculture, Agriculture Production and Management, Agricultural Economics, Animal Sciences, and Food Science). Thirdly, we will find the correlation coefficient between employed full time and unemployed under Computer and Mathematics category. Lastly, for ANOVA, the differences mean of employed college graduates between three major categories (Education, Health and Business) will be tested.

DATA ANALYSIS

HYPOTHESIS TESTING ON TWO SAMPLE

The claim is that "students of Architecture major are less likely to be employed than college graduates of Computer Science major".

Sample data:

Table 1: Sample data hypothesis testing

	Architecture	Computer Science
Employed, x	$x_1 = 216770$	$x_2 = 656372$
Sample, n	$n_1 = 294692$	$n_2 = 783292$

- Significance level, $\alpha = 0.05$
- Hypothesis Statement:

$$H_0: p_1 = p_2$$

 $H_1: p_1 < p_2$

• Pooled Sample Proportion:

$$\overline{p} = \frac{x_1 + x_2}{n_1 + n_2} = 0.80998 \qquad \overline{q} = 1 - \overline{p} = 0.19002$$

• Test Statistic for Two Proportions:

$$z = \frac{(\widehat{p}_1 - \widehat{p}_2) - (p_1 - p_2)}{\sqrt{\frac{\overline{p}\overline{q}}{n_1} + \frac{\overline{p}\overline{q}}{n_2}}}$$

Z	-120.762990889292
z.alpha	-1.95996398454005
	'

Figure 1:Test statistic & critical value

Conclusion:

Test Statistic, $z \le \text{Critical Value}$

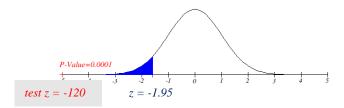


Figure 2: Normal distribution graph

We reject H_0 because the P-value of 0.0001 is less than $\alpha = 0.05$. There is sufficient evidence to support the claim of H_1 , where students that took Architecture major are less likely to be employed than students that took Computer Science major.

CORRELATION

What is the relationship between employed full time, x and unemployed, y for 8 major codes under Computers and Mathematics major category?

Sample data:

Table 2 Correlation(x,y)

Major Code	Employed Full Time, x	Unemployed, y
MATHEMATICS AND COMPUTER SCIENCE	5039	150
APPLIED MATHEMATICS	12109	892
STATISTICS AND DECISION SCIENCE	14468	1138
COMPUTER PROGRAMMING AND DATA PROCESSING	18747	2265
COMPUTER ADMINISTRATION MANAGEMENT AND SECURITY	28156	2626
COMPUTER NETWORKING AND TELECOMMUNICATIONS	35954	2748
COMMUNICATION TECHNOLOGIES	37261	4609
INFORMATION SCIENCES	57604	3704

- Compute the value of the correlation coefficient, r between x and y.
- Construct a scatter plot and label it.

Solution:

Hypothesis:

$$H_0: \rho = 0$$

$$H_1: \rho \neq 0$$

$$test\ statistic, t = \frac{r}{\sqrt{\frac{1-r^2}{n-2}}}$$
 $\alpha = 0.05$

correlation coefficient, r:

Figure 3: r=0.862

• test statistic, t and critical value, $t(\alpha/2, n-2)$:

t	4.16536927761342
t.alpha	2.44691185114497

Figure 4: test statistic, t and critical value

Conclusion:

 \therefore test statistic, t = 4.165 > 2.447, we reject null hypothesis, H_0 .

Discussion:

Because there is sufficient evidence that linear correlation exists between x and y.

• Construct a scatter plot and label it:

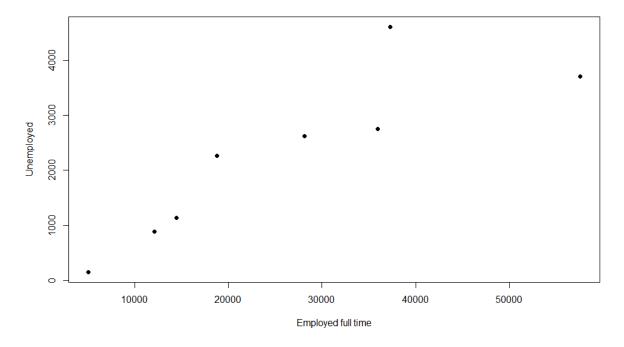


Figure 5: Scatter graph

Conclusion:

 \therefore Since r > 0.8, the relationship between x and y is strong positive linear relationship. It means that the when employed full time in major Computer and Mathematics increases, the unemployed also increase. We can conclude that if a lot of employees offer a worker as full-time worker, it causes a lot of other people are unemployed.

CHI SQUARE TEST (ONE WAY CONTINGENCY):

A study has been conducted on 287330 employed people who are from major category Agriculture & Natural Resources department and they have 5 different majors.

Test the claim that the proportion of employed people is equal for the 5 majors under the major category.

Sample data:

Table 3: Sample Data Chi Square

Major	GENERAL AGRICULTURE	AGRICULTURE PRODUCTION AND MANAGEMENT	AGRICULTURAL ECONOMICS	ANIMAL SCIENCES	FOOD SCIENCE
Employed	90245	76865	26321	81177	12722

Information:

- Significance level, $\alpha = 0.05$
- Hypothesis Statement:

$$H_0$$
: p1 = p2 = p3 = p4 = p5

 H_1 : At least 1 of the 5 proportions is different from others

Observed Value = O

Expected Value =
$$E = \frac{N}{K}$$
, where N= 287330, K= 5

Test Statistic:
$$X^2 = \frac{\sum (O-E)^2}{E}$$

R-Program Output:

Conclusion:

The value of the test statistic that is X^2 , we get 86748. From the table with significance level, $\alpha = 0.05$ we get the **critical value** $X_{4,0.05}^2 = 9.48$ Thus, as the test statistic is greater than the critical value, that is $X^2 > X_{4,0.05}^2$ we **reject the null hypothesis**. That is, we reject the claim that the proportion of employed people is equal for the 5 categories under the major.

ANALYSIS OF VARIANCE (ANOVA)

The purpose of this test is to determine whether or not the mean number of employed from three random and independent major categories are similar or different to one another.

We will use a 0.05 significance level to test either they have same mean or at least one mean is different.

Table 4:Employed of three Departments

	Employed	
Education	Health	Business
843693	78198	1580978
3113	49393	1335825
1492	85360	7846
819393	51279	2354398
47203	121479	47341
193542	19009	57983
113460	1325711	890125
36224	124058	670681
129486	199174	142879
108272	42543	66453

Solution:

 H_0 : $\mu_1 = \mu_2 = \mu_3$ H_1 : at least one mean, μ is different

Find n, \overline{x} , s for each test subject:

We have n=10 and k=3.

Table 5:n, mean and s

	Employed						
	Education, A Health, B Business, C						
n	10	10	10				
Χ̄	217934	209620.4	715450.9				
S	328979.03	395609.52	815205.53				

Find \overline{x} , $s\overline{x}$, $ns\frac{2}{x}$ between samples:

Table 6:value of mean, s.d, variance

₹	381001.76
$S\overline{x}$	289671.27
$ns\frac{2}{x}$	839094460768.034

Find variance within sample, S

Table 7:value of variance within samples



Calculate test statistic, F:

Test statistic, F is calculated using R Studio and the formula is as below:

$$F = \frac{variance\ between\ sample\ (nS\frac{2}{x})}{variance\ within\ sample\ (S_p^2)}$$

н 2.70881220316158

Figure 6:value of test statistic

Calculate Critical Value:

• Find numerator and denominator

```
Numerator = k-1 = 2 Denominator = k*(n-1) = 27
```

Find F critical value:

```
> #Count F Critical Value
> qf(.95,df1=num,df2=Den)
[1] 3.354131
```

Figure 7: F critical value = 3.354

Conclusion:

Since F $_{test\ statistic}$ < F $_{critical\ value}$ (2.7088 < 3.354), the test statistic does not fall within the critical region, therefore we fail to reject hypothesis null. There is sufficient evidence to claim that the employed from three different department have the same mean.

CONCLUSION

There are many valuable experiences that we got from this project that can never be

learn in the theoretically class only. For example, our skill in using R Studio to do inferential

analysis improve massively while working on this project. Our understanding about

inferential analysis become more excellent because we need to apply it to the data set that we

choose by our own self. Any deficiency in this project mainly came from us, because our

knowledge about R Studio is limited as this program rarely used by us in daily life.

Therefore, we hope in the future, we can use R Studio program more skilfully.

REFERENCE

FiveThirtyEight. (2019). FiveThirtyEight College Majors Dataset. Kaggle.com.

https://www.kaggle.com/fivethirtyeight/fivethirtyeight-college-majors-dataset

Hypothesis Test Graph Generator. (2021). Imathas.com.

http://www.imathas.com/stattools/norm.html

Video Link: https://youtu.be/DymkscsWAKw

APPENDIX

Original/raw dataset:

Major_code		Major category		Employed						P75th
	GENERAL AGRICULTURE	Agriculture & Natural Resources	128148	90245	74078		0.0261471	50000	34000	80
	AGRICULTURE PRODUCTION AND MANAGEMENT AGRICULTURAL ECONOMICS	Agriculture & Natural Resources	95326 33955	76865 26321	64240 22810		0.0286361	54000 63000	36000 40000	80 98
	ANIMAL SCIENCES	Agriculture & Natural Resources Agriculture & Natural Resources	103549	26321 81177	22810 64937		0.0302483	63000 46000	40000 30000	98 77
	FOOD SCIENCE	Agriculture & Natural Resources	24280	17281	12722		0.0491884	62000	38500	9
	PLANT SCIENCE AND AGRONOMY	Agriculture & Natural Resources	79409	63043	51077		0.0317909	50000	35000	7
	SOIL SCIENCE MISCELLANEOUS AGRICULTURE	Agriculture & Natural Resources Agriculture & Natural Resources	6586 8549	4926 6392	4042 5074		0.0508671	63000 52000	39400 35000	7
	ENVIRONMENTAL SCIENCE	Biology & Life Science	106106	87602	65238		0.0512898	52000	38000	7
	FORESTRY	Agriculture & Natural Resources	69447	48228	39613		0.0425633	58000	40500	8
	NATURAL RESOURCES MANAGEMENT ARCHITECTURE	Agriculture & Natural Resources	83188 294692	65937	50595		0.0543413	52000	37100 40400	7
	AREA ETHNIC AND CIVILIZATION STUDIES	Engineering Humanities & Liberal Arts	103740	216770 75798	163020 50530		0.0859911	63000 46000	32000	7
	COMMUNICATIONS	Communications & Journalism	987676	790696	595739		0.0643603	50000	35000	8
	JOURNALISM	Communications & Journalism	418104	314438	235407		0.0619168	50000	35000	8
	MASS MEDIA ADVERTISING AND PUBLIC RELATIONS	Communications & Journalism Communications & Journalism	211213 186829	170474	125489 111552		0.0830048	48000 50000	32000 34000	7
	COMMUNICATION TECHNOLOGIES	Computers & Mathematics	62141	49609	37261		0.0850087	50000	34500	7
	COMPUTER AND INFORMATION SYSTEMS	Computers & Mathematics	253782	218248	189950	11945	0.0518912	65000	45000	9
	COMPUTER PROGRAMMING AND DATA PROCESSING	Computers & Mathematics	29317	22828	18747		0.0902642	60000 78000	40000	
	COMPUTER SCIENCE INFORMATION SCIENCES	Computers & Mathematics Computers & Mathematics	783292 77805	656372 66393	561052 57604		0.0495187	68000	51000 46200	10
	COMPUTER ADMINISTRATION MANAGEMENT AND SECURITY	Computers & Mathematics	39362	32366	28156		0.0750457	55000	40000	8
	COMPUTER NETWORKING AND TELECOMMUNICATIONS	Computers & Mathematics	51771	44071	35954		0.0586941	55000	36000	8
	COSMETOLOGY SERVICES AND CULINARY ARTS GENERAL EDUCATION	Industrial Arts & Consumer Services Education	42325 1438867	33388 843693	25780 591863		0.0549407	40000 43000	26200 32000	5
	EDUCATIONAL ADMINISTRATION AND SUPERVISION	Education	4037	3113	2468	0	0.0433033	58000	44750	7
	SCHOOL STUDENT COUNSELING	Education	2396	1492	1093		0.1017459	41000	33200	5
	ELEMENTARY EDUCATION MATHEMATICS TEACHER EDUCATION	Education Education	1446701 68808	819393 47203	501786 29494		0.0383592	40000 43000	31000 34000	5
	PHYSICAL AND HEALTH EDUCATION TEACHING	Education	281661	193542	136343		0.032983	48400	34000	6
2307	EARLY CHILDHOOD EDUCATION	Education	157079	113460	71133	5890	0.0493506	35300	27000	4
	SCIENCE AND COMPUTER TEACHER EDUCATION	Education	56477	36224	24817		0.0421999	46000	35000	6
	SECONDARY TEACHER EDUCATION SPECIAL NEEDS EDUCATION	Education Education	224262 149689	129486 108272	88917 71615		0.0437557	45000 42000	34000 34000	5
	SOCIAL SCIENCE OR HISTORY TEACHER EDUCATION	Education	127022	78785	51632		0.0460132	45000	33000	6
	TEACHER EDUCATION: MULTIPLE LEVELS	Education	88067	58885	37892		0.0333569	40000	30000	5
	LANGUAGE AND DRAMA EDUCATION ART AND MUSIC EDUCATION	Education Education	181445 231861	111347 155159	67651 94756		0.0480803	42000 42600	32000 32000	5
	MISCELLANEOUS EDUCATION	Education	231861	126054	94756		0.0409/34	50000	35600	7
2400	GENERAL ENGINEERING	Engineering	503080	359172	312023	17986	0.0476882	75000	50000	1.00
	AEROSPACE ENGINEERING	Engineering	65734	44944	38491		0.0419713	80000	58000	11
	BIOLOGICAL ENGINEERING ARCHITECTURAL ENGINEERING	Engineering Engineering	32748 19587	24270 13713	18621 11180		0.0589741	62000 78000	40000 50000	10
	BIOMEDICAL ENGINEERING	Engineering	18347	12876	9202		0.0790358	65000	40000	9
	CHEMICAL ENGINEERING	Engineering	188046	131697	109406		0.0462614	86000	60000	12
	CIVIL ENGINEERING COMPUTER ENGINEERING	Engineering	358593 154160	262831 128742	220528 111025		0.0533866	78000 80000	55000 60000	10
	ELECTRICAL ENGINEERING	Engineering Engineering	671647	489965	422317		0.0505088	88000	60000	11
	ENGINEERING MECHANICS PHYSICS AND SCIENCE	Engineering	20582	14909	12257		0.0438045	65000	45000	1.00
	ENVIRONMENTAL ENGINEERING	Engineering	13016	9849	8104	472	0.045732	70000	50000	9
	GEOLOGICAL AND GEOPHYSICAL ENGINEERING INDUSTRIAL AND MANUFACTURING ENGINEERING	Engineering Engineering	6264 138366	4120 101273	3350 85014	5/108	0.0514934	85000 75000	55000 50000	12
	MATERIALS ENGINEERING AND MATERIALS SCIENCE	Engineering	21430	14687	11871		0.0597311	78000	55000	10
	MECHANICAL ENGINEERING METALLURGICAL ENGINEERING	Engineering Engineering	581529 12818	422207 6939	362053 5462		0.0438439	80000 96000	59000 65000	11
2417	MINING AND MINERAL ENGINEERING NAVAL ARCHITECTURE AND MARINE ENGINEERING	Engineering Engineering	10746 16094	7416 10690	6419 9226	449	0.0470316 0.0403088	92000 97000	52000 60000	12
	NUCLEAR ENGINEERING	Engineering	9826	7320	6474		0.0671594	95000	65000	12
	PETROLEUM ENGINEERING MISCELLANEOUS ENGINEERING	Engineering Engineering	19631 57006	14002 43906	11636 37194		0.0422053	125000 70000	75000 50000	1.00
	ENGINEERING TECHNOLOGIES	Engineering	37382	30102	25651		0.0467112	63000	40000	9
	L ENGINEERING AND INDUSTRIAL MANAGEMENT	Engineering	47098	27275	22104		0.0546583	74000	50000	10
	ELECTRICAL ENGINEERING TECHNOLOGY INDUSTRIAL PRODUCTION TECHNOLOGIES	Engineering	94697 82142	73737 65401	64157 57266		0.0583841	67000 70000	46900 48000	9
	MECHANICAL ENGINEERING RELATED TECHNOLOGIES	Engineering Engineering	29348	24190	21273		0.049846	60000	40000	8
2599	MISCELLANEOUS ENGINEERING TECHNOLOGIES	Engineering	64196	53097	46183		0.0601968	63000	42000	9
	L LINGUISTICS AND COMPARATIVE LANGUAGE AND LITERATURE	Humanities & Liberal Arts	75791	45657	30428		0.0813481	48000	30000	7
	FRENCH GERMAN LATIN AND OTHER COMMON FOREIGN LANGU OTHER FOREIGN LANGUAGES	Il Humanities & Liberal Arts Humanities & Liberal Arts	236342	153654	99459		0.0587925	48000	33500	- 6
	OTHER FOREIGN LANGUAGES FAMILY AND CONSUMER SCIENCES	Industrial Arts & Consumer Services	57793 402038	34696 241585	23046 154167		0.0723739	45000 40500	30000	7
3201	L COURT REPORTING	Law & Public Policy	9330	7270	6143	518	0.0665126	50000	34000	7
	PRE-LAW AND LEGAL STUDIES	Law & Public Policy	67037	49259	37254		0.0698478	48000	34000	7
	L ENGLISH LANGUAGE AND LITERATURE	Humanities & Liberal Arts	1098647	708882	482229	52248	0.0686453	50000	32900 28800	7
	COMPOSITION AND DHETODIC	Humanities & Liberal Asta		44047	20620	3550	0.072645			- 6
3302	COMPOSITION AND RHETORIC LIBERAL ARTS	Humanities & Liberal Arts Humanities & Liberal Arts	59211 601221	44913 404932	29628 296792	3569 29348	0.073615 0.0675785	40000 50000	33000	7
3302 3401 3402	L LIBERAL ARTS 2 HUMANITIES	Humanities & Liberal Arts Humanities & Liberal Arts	59211 601221 46188	404932 29971	296792 19460	29348 2530	0.0675785 0.0778438	50000 46700	33000 30000	7
3302 3401 3402 3501	L LIBERAL ARTS 2 HUMANITIES L LIBRARY SCIENCE	Humanities & Liberal Arts Humanities & Liberal Arts Education	59211 601221 46188 16193	404932 29971 7091	296792 19460 4330	29348 2530 743	0.0675785 0.0778438 0.094843	50000 46700 40000	33000 30000 30000	7 5
3302 3401 3402 3501 3600	LIBERALARTS HUMANITIES LIBRARY SCIENCE BIOLOGY	Humanities & Liberal Arts Humanities & Liberal Arts Education Biology & Life Science	59211 601221 46188 16193 839454	404932 29971 7091 583079	296792 19460 4330 422788	29348 2530 743 36757	0.0675785 0.0778438 0.094843 0.0593012	50000 46700 40000 51000	33000 30000 30000 35000	7 5
3302 3401 3402 3501 3600 3601	L LIBERAL ARTS 2 HUMANITIES L LIBRARY SCIENCE	Humanities & Liberal Arts Humanities & Liberal Arts Education	59211 601221 46188 16193	404932 29971 7091 583079 52594	296792 19460 4330	29348 2530 743 36757 4056	0.0675785 0.0778438 0.094843 0.0593012 0.0715975	50000 46700 40000 51000 53000	33000 30000 30000 35000 33000	7 5 8
3402 3402 3501 3600 3602 3603	L UBERAL ARTS PHUMANTIES UBRARY SCIENCE BIOLOGY BIOCHORY BIOCHORY BOTANY MOLECULAR BIOLOGY	Humanities & Liberal Arts Humanities & Liberal Arts Education Biology & Life Science	59211 601221 46188 16193 839454 75322 14135 28197	404932 29971 7091 583079 52594 9284 20221	296792 19460 4330 422788 37103 6333 13366	29348 2530 743 36757 4056 327 1303	0.0675785 0.0778438 0.094843 0.0593012 0.0715975 0.0340235 0.0605371	50000 46700 40000 51000 53000 50000 45000	33000 30000 30000 35000 33000 32000 30000	7 5 8 8 7 7
3302 3401 3402 3501 3600 3602 3603 3603	L UBERAL ARTS LUBRARY SORNCE BIOLOGY BIOLOGY BIOCHORY BIOCHORY MOLECULAR BIOLOGY LECOLOGY LECOLOGY	Humanities & Liberal Arts Humanities & Liberal Arts Education Biology & Life Science	59211 601221 46188 16193 839454 75322 14135 28197 45368	404932 29971 7091 583079 52594 9284 20221 36708	296792 19460 4330 422788 37103 6333 13366 25677	29348 2530 743 36757 4056 327 1303	0.0675785 0.0778438 0.094843 0.0593012 0.0715975 0.0340235 0.0605371 0.048917	50000 46700 40000 51000 53000 50000 45000 47500	33000 30000 30000 35000 33000 32000 30000 32000	7 5 8 8 7 7
3302 3401 3402 3501 3600 3601 3602 3604 3604 3605	L LIBERAL ARTS L HUMANITIES L JIBBARY SCIENCE BIOLOGY BIOCHORY BIOCHORY BIOCHORY BIOCHORY L ECOLOGY GENETICS GENETICS	Humanities & Liberal Arts Humanities & Liberal Arts Education Biology & Life Science	59211 601221 46188 16193 839454 75322 14135 28197 45368 6362	404932 29971 7091 583079 52594 9284 20221 36708 4747	296792 19460 4330 422788 37103 6333 13366 25677 3498	29348 2530 743 36757 4056 327 1303 1888 206	0.0675785 0.0778438 0.094843 0.0593012 0.0715975 0.0340235 0.0605371 0.048917 0.041591	50000 46700 40000 51000 53000 50000 45000 47500 48000	33000 30000 30000 35000 33000 32000 32000 32000 33000	7 5 8 8 7 7 7
3302 3401 3402 3501 3600 3602 3603 3604 3605 3606	L UBERAL ARTS LUBRARY SORNCE BIOLOGY BIOLOGY BIOCHORY BIOCHORY MOLECULAR BIOLOGY LECOLOGY LECOLOGY	Humanities & Liberal Arts Humanities & Liberal Arts Education Biology & Life Science	59211 601221 46188 16193 839454 75322 14135 28197 45368 6362 68885	404932 29971 7091 583079 52594 9284 20221 36708	296792 19460 4330 422788 37103 6333 13366 25677 3498 33990	29348 2530 743 36757 4056 327 1303 1888 206 2435	0.0675785 0.0778438 0.094843 0.0593012 0.0715975 0.0340235 0.0605371 0.048917 0.041591 0.0508807	50000 46700 40000 51000 53000 50000 45000 47500 48000	33000 30000 30000 35000 33000 32000 32000 32000 33000 40000	7 5 8 8 7 7 7 7 8
3302 3401 3402 3503 3600 3603 3603 3604 3605 3606 3606 3606	L UBERAL ARTS L HUMANITIES L UBRARY SCIENCE BIOLOGY BIOCHOMICAL SCIENCES BOTANY BOTANY BOTANY BOTOLOGY COMPTION COMPTION COMPTION PHARMACOLOGY BYSINGER BYSI	Humanities & Liberal Arts Humanities & Liberal Arts Education Biology & Life Science	59211 601221 46188 16193 839454 75322 14135 28197 45368 6362 68885 5015	404932 29971 7091 583079 52594 9284 20221 36708 4747 45422 3481 31394	296792 19460 4330 422788 37103 6333 13366 25677 3498 33990 2579 20207	29348 2530 743 36757 4056 327 1303 1888 206 2435 57	0.0675785 0.0778438 0.094843 0.0593012 0.0715975 0.0340235 0.0605371 0.048917 0.041591 0.0508807 0.0161108 0.0511395	50000 46700 40000 51000 53000 50000 45000 47500 48000 60000 60000 50000	33000 30000 30000 35000 33000 32000 30000 32000 40000 35000 35000	7 5 8 8 7 7 7 7 8 8 10
3302 3401 3402 3501 3600 3602 3602 3602 3606 3606 3606 3606	L UBERAL ARTS LUBRARY SORNCE BIOLOGY BIOLOGY BIOCHORIAL SCIENCES BOTANY MOLECULAR BIOLOGY LECOLOGY CENETICS MICROBIOLOGY PHYSIOLOGY PHYSIOLOGY ZOOLOGY ZOOLOGY	Humanities & Liberal Arts Humanities & Liberal Arts Education Biology & Life Science	59211 601221 46188 16193 839454 75322 14135 28197 45368 6362 68885 5015 43984 55395	404932 29971 7091 583079 52594 9284 20221 36708 4747 45422 3481 31394 35714	296792 19460 4330 422788 37103 6333 13366 25677 3498 33990 2579 20207 26152	29348 2530 743 36757 4056 327 1303 1888 206 2435 57	0.0675785 0.0778438 0.094843 0.094843 0.0715975 0.0340235 0.0605371 0.048917 0.041591 0.0508807 0.0161108 0.0511395	50000 46700 40000 51000 53000 45000 47500 48000 60000 60000	33000 30000 35000 35000 32000 32000 32000 33000 40000 35000 35000	7 5 8 8 7 7 7 7 8 8 8 10
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8	5202	CLINICAL PSYCHOLOGY	Psychology & Social Work	7638	5128	3297	587	0.1027122	45000	26100	6200
9	5203	COUNSELING PSYCHOLOGY	Psychology & Social Work	17633	13071	8888	954	0.0680214	39000	25000	5000
10	5205	INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY	Psychology & Social Work	17969	11878	8631	1084	0.0836291	62000	40000	8400
1	5206	SOCIAL PSYCHOLOGY	Psychology & Social Work	10871	6897	5226	660	0.0873362	47000	35000	7000
2	5299	MISCELLANEOUS PSYCHOLOGY	Psychology & Social Work	34102	23921	15688	2137	0.0820094	45000	30000	7000
3		CRIMINAL JUSTICE AND FIRE PROTECTION	Law & Public Policy	757141	613369	517599	35037	0.0540356	50000	35000	7400
4		PUBLIC ADMINISTRATION	Law & Public Policy	54636	37879	31262		0.0696549	56000	40000	8500
25		PUBLIC POLICY	Law & Public Policy	14782	11147	8196		0.0792169	60000	38000	9000
6		HUMAN SERVICES AND COMMUNITY ORGANIZATION	Psychology & Social Work	81786	61402	44959		0.0724213	38000	29000	520
7		SOCIAL WORK	Psychology & Social Work	319163	225081	164020		0.0593759	40000	30000	530
8		GENERAL SOCIAL SCIENCES	Social Science	127363	80165	57036		0.0393739	50000	35000	750
9		ECONOMICS .	Social Science	757616	535446	430580		0.0710309	69000	42000	1100
0		ANTHROPOLOGY AND ARCHEOLOGY	Humanities & Liberal Arts	143087	102399	66046			43000	30000	680
								0.0781758			
1		CRIMINOLOGY	Social Science	75085	59534	48763		0.0645192	49000	35000	720
2		GEOGRAPHY	Social Science	115423	83671	63070		0.0690085	54000	38300	780
3		INTERNATIONAL RELATIONS	Social Science	77371	56564	42091		0.0703133	55000	40000	890
4		POLITICAL SCIENCE AND GOVERNMENT	Social Science	748956	541630	421761		0.0693739	58000	38000	900
5		SOCIOLOGY	Social Science	674558	459174	336515	32344	0.0658043	47000	33000	700
6	5599	MISCELLANEOUS SOCIAL SCIENCES	Social Science	15882	12307	9444	708	0.0543988	52000	40000	800
7		CONSTRUCTION SERVICES	Industrial Arts & Consumer Services	92346	79055	65916	4257	0.0510971	65000	45000	950
8	5701	ELECTRICAL, MECHANICAL, AND PRECISION TECHNOLOGIES AND	Industrial Arts & Consumer Services	15726	12607	10453	692	0.052034	48000	32000	750
9	5901	TRANSPORTATION SCIENCES AND TECHNOLOGIES	Industrial Arts & Consumer Services	126639	98814	83519	4902	0.0472637	67000	42500	980
0	6000	FINE ARTS	Arts	571961	386961	256747	29912	0.0717533	45000	30000	700
1	6001	DRAMA AND THEATER ARTS	Arts	174817	135071	81519	11789	0.0802737	42000	29000	620
2	6002	MUSIC	Arts	276262	192704	116142	11155	0.0547192	45000	30000	670
31	6003	VISUAL AND PERFORMING ARTS	Arts	55141	41098	23479	4297	0.094658	40000	27000	590
4		COMMERCIAL ART AND GRAPHIC DESIGN	Arts	504657	379980	266671		0.0739197	46600	32000	700
5		FILM VIDEO AND PHOTOGRAPHIC ARTS	Arts	133508	107651	69303		0.0856189	47000	30000	700
5		ART HISTORY AND CRITICISM	Humanities & Liberal Arts	90852	61795	38989		0.0639126	44500	30000	700
7		STUDIO ARTS	Arts	81008	58799	36943		0.0837138	37600	24900	580
8		MISCELLANEOUS FINE ARTS	Arts	8511	6431	3802		0.1561475	45000	30000	600
9		GENERAL MEDICAL AND HEALTH SERVICES	Health	104516	78198	53746		0.0547006	50000	35000	730
0		COMMUNICATION DISORDERS SCIENCES AND SERVICES	Health	74977	49393	26085		0.0347008	42000	30000	600
1			Health		85360	67294	5160		50000	35000	
		HEALTH AND MEDICAL ADMINISTRATIVE SERVICES		108510				0.057004			750
2		MEDICAL ASSISTING SERVICES	Health	64316	51279	25118		0.0313568	55000	37000	750
3		MEDICAL TECHNOLOGIES TECHNICIANS	Health	164990	121479	92128		0.0362099	60000	45000	760
4		HEALTH AND MEDICAL PREPARATORY PROGRAMS	Health	32514	19009	13147		0.0700098	50000	34000	850
5		NURSING	Health	1769892	1325711	947546		0.0267968	62000	48000	800
6		PHARMACY PHARMACEUTICAL SCIENCES AND ADMINISTRATION		180084	124058	89234		0.0343577	106000	78000	1250
7	6109	TREATMENT THERAPY PROFESSIONS	Health	252138	199174	128115		0.0262916	61000	40000	800
8	6110	COMMUNITY AND PUBLIC HEALTH	Health	56741	42543	28912	3032	0.0665277	47000	32800	700
9	6199	MISCELLANEOUS HEALTH MEDICAL PROFESSIONS	Health	77647	52610	35676	2978	0.0535727	45000	32000	620
0	6200	GENERAL BUSINESS	Business	2148712	1580978	1304646	85626	0.0513775	60000	40000	950
1	6201	ACCOUNTING	Business	1779219	1335825	1095027	75379	0.0534147	65000	42500	1.00E+
2	6202	ACTUARIAL SCIENCE	Business	9763	7846	6880	466	0.0560635	72000	53000	1150
3	6203	BUSINESS MANAGEMENT AND ADMINISTRATION	Business	3123510	2354398	1939384	147261	0.0588653	58000	39500	860
4	6204	OPERATIONS LOGISTICS AND E-COMMERCE	Business	57200	47341	41104		0.0432683	65000	45000	900
5	6205	BUSINESS ECONOMICS	Business	75547	57983	48471	3816	0.0617486	65000	45000	1.00E+
5		MARKETING AND MARKETING RESEARCH	Business	1114624	890125	704912		0.0550329	56000	38500	900
,		FINANCE	Business	816548	670681	561073		0.0484729	65000	45000	1.00E+
В		HUMAN RESOURCES AND PERSONNEL MANAGEMENT	Business	187274	142879	116466		0.0607481	54000	38000	800
9		INTERNATIONAL BUSINESS	Business	86064	66453	51012		0.0007481	54000	38600	800
		HOSPITALITY MANAGEMENT	Business	200854	163393	122499	8862	0.0713537	49000	33000	700
1		MANAGEMENT INFORMATION SYSTEMS AND STATISTICS	Business	156673	134478	118249		0.0439771	72000	50000	1.00E+
2		MISCELLANEOUS BUSINESS & MEDICAL ADMINISTRATION	Business	102753	77471	61603		0.0526786	53000	36000	830
3		HISTORY	Humanities & Liberal Arts	712509	478416	354163	33725		50000	35000	800
4	6403	UNITED STATES HISTORY	Humanities & Liberal Arts	17746	11887	8204	943	0.0734996	50000	39000	810

Processed dataset:

• Hypothesis Testing on 2 Sample

	Architecture	Computer Science
Employed, x	$x_1 = 216770$	$x_2 = 656372$
Sample, n	$n_1 = 294692$	$n_2 = 783292$

• Correlation

Major Code	Employed Full Time, x	Unemployed, y
MATHEMATICS AND COMPUTER SCIENCE	5039	150
APPLIED MATHEMATICS	12109	892
STATISTICS AND DECISION SCIENCE	14468	1138
COMPUTER PROGRAMMING AND DATA PROCESSING	18747	2265
COMPUTER ADMINISTRATION MANAGEMENT AND SECURITY	28156	2626
COMPUTER NETWORKING AND TELECOMMUNICATIONS	35954	2748
COMMUNICATION TECHNOLOGIES	37261	4609
INFORMATION SCIENCES	57604	3704

• Chi Square Test (One way contingency)

Major	GENERAL AGRICULTURE	AGRICULTURE PRODUCTION AND MANAGEMENT	AGRICULTURAL ECONOMICS	ANIMAL SCIENCES	FOOD SCIENCE
Employed	90245	76865	26321	81177	12722

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Employed				
Education	Health	Business		
843693	78198	1580978		
3113	49393	1335825		
1492	85360	7846		
819393	51279	2354398		
47203	121479	47341		
193542	19009	57983		
113460	1325711	890125		
36224	124058	670681		
129486	199174	142879		
108272	42543	66453		