

Data Analysis Using Excel and SPSS

Loyola Brown Bag Series on Research and Assessment

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Agenda

- ◆ Data layout conventions
- ◆ Excel pivot tables
- ◆ SPSS frequency tables and crosstabulations

Data Layout Conventions

- ◆ **Columns identify variables (pieces of info)**
 - Only one piece of info per cell
 - First row in a spreadsheet is a “name” row where each variable is identified
- ◆ **Rows represent cases (individuals, cohorts, etc.)**
 - Make sure there is a unique identifier for each case

Data Layout - Example

Microsoft Excel - brown bag DTA

File Edit View Insert Format Tools Data Window Help Adobe PDF

Type a question for help

C15 1

	A	B	C	D	E	F	G	H	I	J	K	L	M
	STUDID	CAREER06	VIEWD605	VIEWD606	VIEWD608	VIEWD609	VIEWD610	VIEWD615	VIEWD616	VIEWD617	POLIVW06	GOALD620	FUTACT
1	292363	47	3	3	3	3	3	3	3	3	3	2	
2	000982539	8	2	1	3	4	2	3	3	4	2	2	
3	1049956	38	2	1	4	3	3	3	4	4	3	4	
4	001056442	31	1	1	3	3	3	4	3	4	4	2	
5	1060417	47	2	3	2	3	3	4	3	2	4	2	
6	001068879	6	2	4	1	3	2	3	2	4	2	3	
7	001070260	12	3	3	1	2	3	3	3	3	2	2	
8	001074079	11	1	2	3	4	4	3	2	4	4	2	
9	1078686	47	1	1	2	4	2	4	3	4	3	2	
10	1081589	47	1	2	3	4	3	4	2	3	4	4	
11	001083580	47	1	2	3	3	2	3	3	3	2	3	
12	1092471	40	4	3	4	1	2	3	4	3	3	1	
13	001100625	41	2	2	2	4	4	3	1	4	2	3	
14	001105405	47	1	1	1	4	3	4	3	3	3	3	
15	001106359	46	2	2	3	3	2	2	3	3	3	2	
16	1106448	46	1	1	1	4	4	3	1	4	3	3	
17	001108637	25	1	1	1	2	4	4	4	3	2	3	
18	001109238	47	1	1	2	4	2	4	2	2	4	2	
19	001109324	1	1	1	4	2	2	3	3	4	4	2	
20	001109869	8	1	2	4	3	3	4	4	4	2	4	
21	001109976	20	3	2	3	2	4	2	4	3	2	3	
22	001112232	38	1	2	2	3	2	4	3	4	3	3	
23	001113215	25	3	1	3	4	4	3	1	4	2	3	
24	001113694	38	3	2	3	2	3	4	1	4	3	4	
25	001113742	47	1	2	1	4	2	2	2	2	3	2	
26	1113982	47	1	1	3	4	3	2	2	2	4	4	
27	1114491	47	1	2	2	3	2	2	3	4	2	3	
28	001115436	47	2	2	1	2	3	3	3	4	2	3	
29	001115966	39	1	2	3	3	2	3	2	4	3	2	
30	1116591	47	2	2	1	4	1	3	3	3	4	2	
31	001117294	47	2	2	2	2	2	2	3	3	3	3	
32	001117305	6	1	1	4	4	4	4	4	2	4	3	
33	001120685	37	1	3	1	2	4	2	4	4	2	3	
34	001121058	31	1	2	2	4	3	4	2	4	4	3	
35	1121116	8	1	1	3	4	2	4	4	4	3	2	

brown bag DTA

Ready

start

2 No...

Loyola...

Loyola...

Micros...

brown...

Micros...

Micros...

NUM

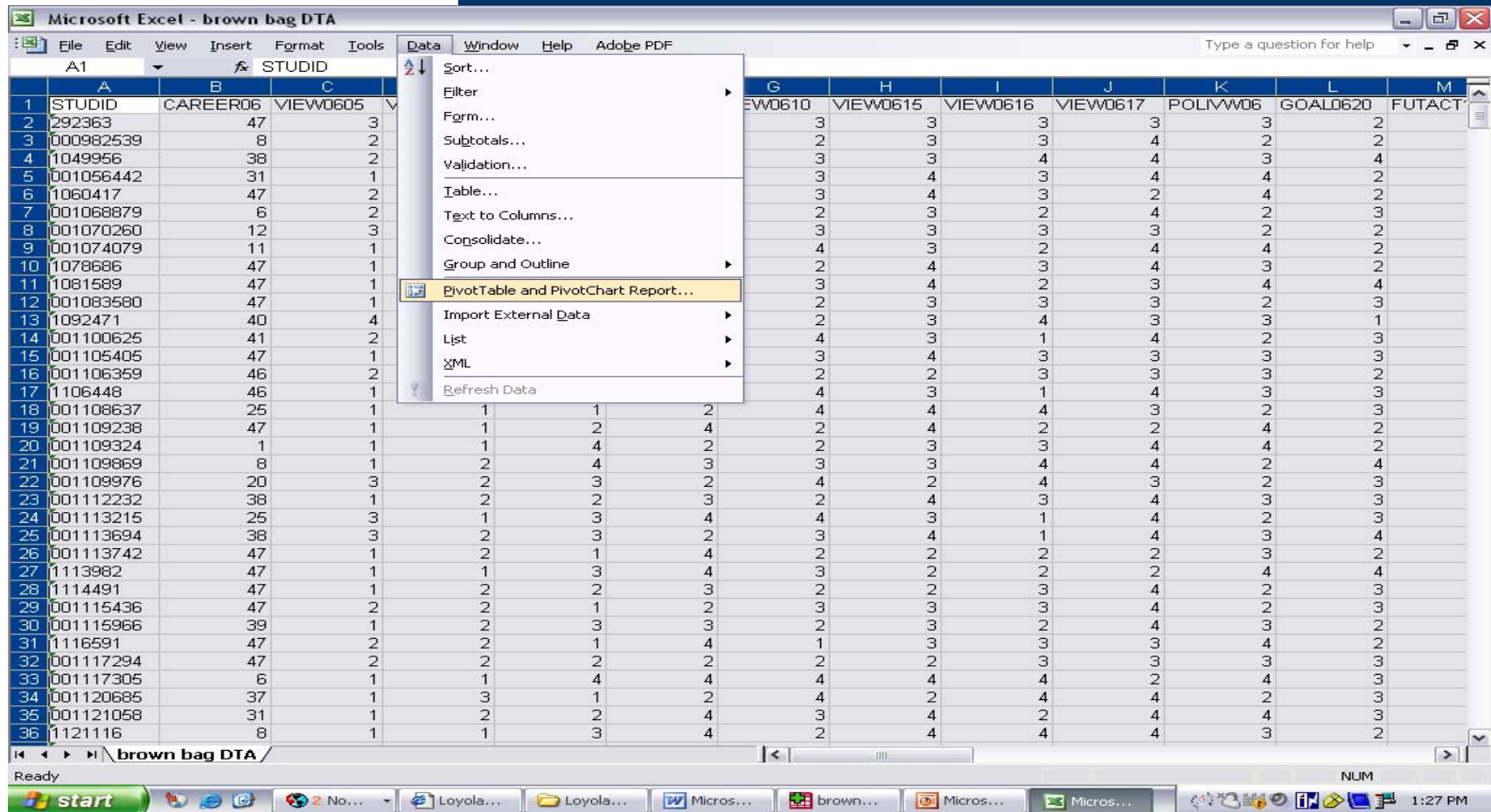
1:25 PM

- 
- ◆ Data layout conventions
 - ◆ **Excel pivot tables**
 - ◆ SPSS frequency tables and crosstabulations

Excel Advantages

- ◆ Easy data entry
- ◆ Software widely available
- ◆ Quick and easy pivot tables
- ◆ Nice and flexible charting options

Excel Pivot Tables



Pivot Table Wizard

The screenshot shows a Microsoft Excel window titled "Microsoft Excel - brown bag DTA". The spreadsheet contains data with columns labeled A through M. A dialog box titled "PivotTable and PivotChart Wizard - Step 1 of 3" is open in the center. The dialog box has two sections:

Where is the data that you want to analyze?

- ☒ Microsoft Office Excel list or database
- ☐ External data source
- ☐ Multiple consolidation ranges
- ☐ Another PivotTable report or PivotChart report

What kind of report do you want to create?

- ☒ PivotTable
- ☐ PivotChart report (with PivotTable report)

The dialog box has buttons for "Cancel", "< Back", "Next >", and "Finish". The spreadsheet data in the background includes columns for STUDID, CAREER06, VIEW0605, VIEW0606, VIEW0608, VIEW0609, VIEW0610, VIEW0615, VIEW0616, VIEW0617, POLIVW06, GOAL0620, and FUTACT.

Pivot Table Source Data

The screenshot shows a Microsoft Excel window titled "brown bag DTA". The spreadsheet contains a PivotTable with the following data:

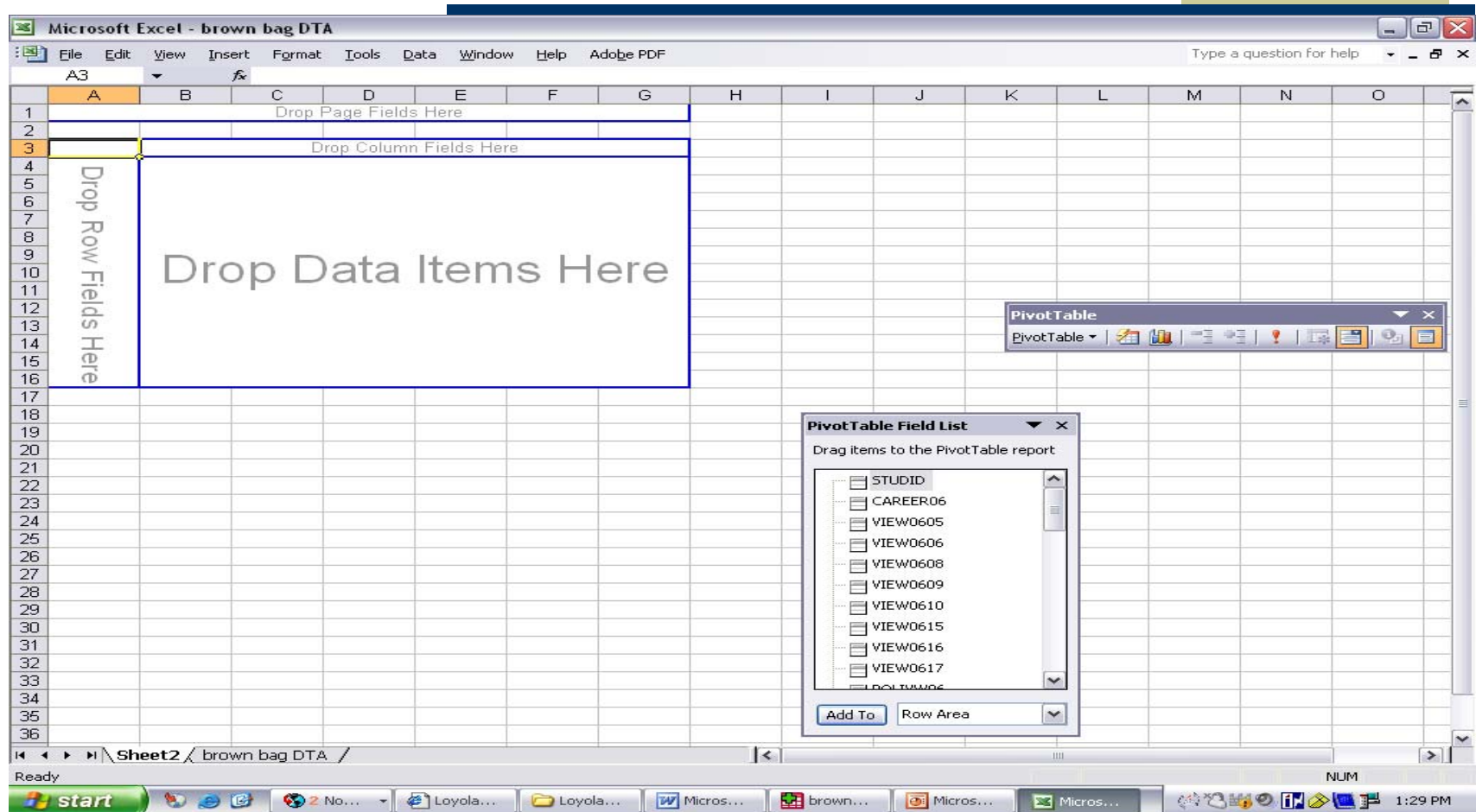
STUDID	CAREER06	VIEW0605	VIEW0606	VIEW0608	VIEW0609	VIEW0610	VIEW0615	VIEW0616	VIEW0617	POLIVW06	GOAL0620	FUTACT
292363	47	3	3	3	3	3	3	3	3	3	2	
000982539	8	2	1	3	4	2	3	3	4	2	2	
1049956	38	2	1	4	3	3	3	4	4	3	4	
001056442	31	1	1	3	3	3	4	3	4	4	2	
1060417	47	2	3	2	3	3	4	3	2	4	2	
001068879	6	2	4	1	3	2	3	2	4	2	3	
001070260	12	3	3	1	2	3	3	3	3	2	2	
001074079	11	1	2	3	4	4	3	2	4	4	2	
1078686	47	1	1	2	4	2	4	3	4	3	2	
1081589	47	1	2	3	4	3	4	2	3	4	4	
001083580	47	1	2	3	3	2	3	3	3	2	3	
1092471	40	4	3	4	1	2	3	4	3	3	1	
001100625	41	2	2	2	4	4	2	4	4	2	3	
001105405	47	1	1	1					3	3	3	
001106359	46	2	2						3	3	2	
1106448	46	1	1						4	3	3	
001108637	25	1	1	1					3	2	3	
001109238	47	1	1	1					2	4	2	
001109324	1	1	1	1					4	4	2	
001109869	8	1	2	4	3	3	4	4	4	2	4	
001109976	20	3	2	3	2	4	2	4	3	2	3	
001112232	38	1	2	2	3	2	4	3	4	3	3	
001113215	25	3	1	3	4	4	3	1	4	2	3	
001113694	38	3	2	3	2	3	4	1	4	3	4	
001113742	47	1	2	1	4	2	2	2	2	3	2	
1113982	47	1	1	3	4	3	2	2	2	4	4	
1114491	47	1	2	2	3	2	2	3	4	2	3	
001115436	47	2	2	1	2	3	3	3	4	2	3	
001115966	39	1	2	3	3	2	3	2	4	3	2	
1116591	47	2	2	1	4	1	3	3	3	4	2	
001117294	47	2	2	2	2	2	2	3	3	3	3	
001117305	6	1	1	4	4	4	4	4	2	4	3	
001120685	37	1	3	1	2	4	2	4	4	2	3	
001121058	31	1	2	2	4	3	4	2	4	4	3	
1121116	8	1	1	3	4	2	4	4	4	3	2	

The PivotTable and PivotChart Wizard - Step 2 of 3 dialog box is open, showing the range \$A:\$AP.

Where is the data that you want to use?
Range: \$A:\$AP

Buttons: Cancel, < Back, Next >, Finish

Pivot Table Layout



Pivot Table Construction

The screenshot shows Microsoft Excel with a PivotTable in the following state:

Drop Page Fields Here		
Count of STUDID		
VIEW0606	Total	
1	279	
2	40	
3	11	
4	11	
Grand Total	82	

The context menu for cell B5 includes the following options:

- Format Cells...
- PivotChart
- PivotTable Wizard
- Refresh Data
- Hide
- Select
- Group and Show Detail
- Order
- Field Settings...
- Table Options...
- Hide PivotTable Toolbar
- Hide Field List

The PivotTable Field List task pane shows the following fields:

- STUDID
- CAREER06
- VIEW0605
- VIEW0606
- VIEW0608
- VIEW0609
- VIEW0610
- VIEW0615
- VIEW0616
- VIEW0617
- VIEW0618

The PivotTable is currently set to show the 'Total' for 'VIEW0606' in the 'Row Area'.

Pivot Table Customization

The screenshot displays the Microsoft Excel interface with a PivotTable and two customization dialog boxes.

PivotTable Data:

VIEW0606	Total
1	279
2	407
3	119
4	18
Grand Total	823

PivotTable Field List:

- STUDID
- CAREER06
- VIEW0605
- VIEW0606**
- VIEW0608
- VIEW0609
- VIEW0610
- VIEW0615
- VIEW0616
- VIEW0617
- POLY0606

PivotTable Field Dialog:

- Source field: STUDID
- Name: Count of STUDID
- Summarize by: Count
- Show data as: Normal

Pivot Table Frequency Results

The screenshot shows a Microsoft Excel window titled "brown bag DTA". The PivotTable is located in cells A3:B9. The PivotTable shows the count of STUDID for each VIEW0606 category. The PivotTable is structured as follows:

VIEW0606	Total
1	34%
2	49%
3	14%
4	2%
Grand Total	100%

The PivotTable is displayed in a PivotTable view. The PivotTable is located in cells A3:B9. The PivotTable is structured as follows:

VIEW0606	Total
1	34%
2	49%
3	14%
4	2%
Grand Total	100%

The PivotTable is displayed in a PivotTable view. The PivotTable is located in cells A3:B9. The PivotTable is structured as follows:

VIEW0606	Total
1	34%
2	49%
3	14%
4	2%
Grand Total	100%

Pivot Table Crosstab Results

The screenshot shows a Microsoft Excel window titled "Microsoft Excel - brown bag DTA". The PivotTable is located in the range D4:E9. The PivotTable shows the count of STUDID for each combination of VIEWID606 and soc. The Grand Total for all combinations is 100%.

VIEWID606	soc	Count of STUDID
1	31%	51%
2	51%	38%
3	15%	8%
4	2%	2%
Grand Total	100%	100%

The PivotTable is set to show the Grand Total for all combinations of the fields. The PivotTable is located in the range D4:E9. The PivotTable shows the count of STUDID for each combination of VIEWID606 and soc. The Grand Total for all combinations is 100%.

The PivotTable is set to show the Grand Total for all combinations of the fields. The PivotTable is located in the range D4:E9. The PivotTable shows the count of STUDID for each combination of VIEWID606 and soc. The Grand Total for all combinations is 100%.

- 
- ◆ Data layout conventions
 - ◆ Excel pivot tables
 - ◆ **SPPS frequency tables and crosstabulations**

SPSS Advantages

- ◆ Data labeling options
- ◆ Can produce multiple tables with few steps
- ◆ Recorded output
- ◆ Powerful statistical options

SPSS Basics

- ◆ **Three files**
 - Data (.sav)
 - Output (.spo)
 - Syntax (.sps)

- ◆ **Two views in the Data file**
 - Variable view
 - Data view

SPSS Variable View

***brown bag DTA [DataSet1] - SPSS Data Editor**

File Edit View Data Transform Analyze Graphs Utilities Window Help

	Name	Type	Width	Decimals	Label	Values	Missing	Colu	Align	Mea
1	STUDID	String	9	0		None	None	11	Left	Nomina
2	SEX	Numeric	1	0	Your sex	{1, Male}...	0	5	Right	Scale
3	CAREER06	Numeric	2	0	Student (probable)	{1, Accountant or actu	0	10	Right	Scale
4	VIEW0605	Numeric	1	0	It is important to have laws prohibiting homosexual relatio	{1, Disagree strongly}.	0	10	Right	Scale
5	VIEW0606	Numeric	1	0	Racial discrimination is no longer a major problem in Am	{1, Disagree strongly}.	0	10	Right	Scale
6	VIEW0608	Numeric	1	0	Wealthy people should pay a larger share of taxes than t	{1, Disagree strongly}.	0	10	Right	Scale
7	VIEW0609	Numeric	1	0	Same-sex couples should have the right to legal marital s	{1, Disagree strongly}.	0	10	Right	Scale
8	VIEW0610	Numeric	1	0	Affirmative action in college admissions should be abolish	{1, Disagree strongly}.	0	10	Right	Scale
9	VIEW0615	Numeric	1	0	A national health care plan is needed to cover everybody'	{1, Disagree strongly}.	0	10	Right	Scale
10	VIEW0616	Numeric	1	0	Undocumented immigrants should be denied access to p	{1, Disagree strongly}.	0	10	Right	Scale
11	VIEW0617	Numeric	1	0	Through hard work, everybody can succeed in American	{1, Disagree strongly}.	0	10	Right	Scale
12	POLVW06	Numeric	1	0	How would you characterize your political views?	{1, Far right}...	0, 1, 5	10	Right	Scale
13	GOALD620	Numeric	1	0	Improving my understanding of other countries and cultur	{1, Not important}...	0	10	Right	Scale
14	FUTACT16	Numeric	1	0	Socialize with someone of another racial/ethnic group	{1, No chance}...	0	10	Right	Scale
15	Q47s	Numeric	8	2	Afirm Action/Whites have it easier - short	{1.00, Student A}...	None	10	Right	Scale
16	Q48s	Numeric	8	2	So gay/tough environment - short	{1.00, Student A}...	None	10	Right	Scale
17	Q49s	Numeric	8	2	All the same/learn about challenges- short	{1.00, Student A}...	None	10	Right	Scale
18	Q50s	Numeric	8	2	Gender gap/gap has disappeared - short	{1.00, Student A}...	None	10	Right	Scale
19	Q51s	Numeric	8	2	Unique Style/pressure to dress certain way - short	{1.00, Student A}...	None	10	Right	Scale
20	Q52s	Numeric	8	2	Race sig part of identity/not something think about - short	{1.00, Student A}...	None	10	Right	Scale
21	Q53s	Numeric	8	2	FAC crowded/self-conscious about appearance - short	{1.00, Student A}...	None	10	Right	Scale
22	Q54s	Numeric	8	2	Katrina/misfortune and poor planning - short	{1.00, Student A}...	None	10	Right	Scale
23	Q55s	Numeric	8	2	Slavery horrible time/still impacts today - short	{1.00, Student A}...	None	10	Right	Scale
24	Q56s	Numeric	8	2	Arabs get searched/profiling is unfair - short	{1.00, Student A}...	None	10	Right	Scale
25	Q57s	Numeric	8	2	Learning disabilities/extra time is unfair - short	{1.00, Student A}...	None	10	Right	Scale
26	Q58s	Numeric	8	2	Foreign language/should speak english - short	{1.00, Student A}...	None	10	Right	Scale
27	Q47l	Numeric	8	2	Afirm Action/Whites have it easier - long"	{1.00, Completely Agr	None	10	Right	Scale
28	Q48l	Numeric	8	2	So gay/tough environment - long"	{1.00, Completely Agr	None	10	Right	Scale
29	Q49l	Numeric	8	2	All the same/learn about challenges - long"	{1.00, Completely Agr	None	10	Right	Scale
30	Q50l	Numeric	8	2	Gender gap/gap has disappeared - long"	{1.00, Completely Agr	None	10	Right	Scale
31	Q51l	Numeric	8	2	Unique Style/pressure to dress certain way - long"	{1.00, Completely Agr	None	10	Right	Scale
32	Q52l	Numeric	8	2	Race sig part of identity/not something think about - long"	{1.00, Completely Agr	None	10	Right	Scale

Data View Variable View

SPSS Processor is ready

start No... Loyola... Divers... Views ... SPSS Micros... Micros... 2:10 PM

SPSS Data View

*brown bag DTA [DataSet1] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Window Help

1 : STUDID

	STUDI D	SEX	CAREER06	VIEW0605	VIEW0606	VIEW0608	VIEW0609	VIEW0610	VIEW0615	VIEW0616	VIEW0617	POLIM
1	.	Male	Undecided [st	Disagree stron	Disagree som	Agree somew	Agree somew	Agree somew	Disagree som	Disagree som	Agree somew	Middle-o
2	.	Femal	Computer prog	Disagree som	Agree somew	Disagree stron	Agree somew	Agree strongly	Disagree som	Agree strongly	Agree somew	Conse
3	.	Femal	Veterinarian	Disagree stron	Disagree som	Disagree som	Agree somew	Agree somew	Disagree stron	Agree strongly	Agree somew	Middle-o
4	.	Femal	Undecided [st	Agree somew	Agree somew	Agree somew	Disagree som	Agree somew	Agree somew	Disagree som	Disagree som	Conse
5	.	Male	.	Disagree stron	.	Agree strongly	Disagree stron	Disagree som	Agree somew	Agree somew	Disagree stron	L
6	.	Femal	Teacher or ad	Disagree stron	Disagree stron	Agree strongly	Agree strongly	Agree somew	Agree strongly	Disagree som	Agree strongly	L
7	.	Male	Business exe	Disagree som	Disagree som	Disagree stron	Agree somew	Agree somew	Agree somew	Agree somew	Agree somew	Conse
8	.	Femal	Undecided [st	Agree strongly	Disagree som	Disagree stron	Disagree stron	Disagree som	Agree somew	Disagree som	Agree somew	Conse
9	.	Male	Business exe	Disagree stron	Disagree som	Disagree som	Agree strongly	Agree strongly	Agree somew	Agree somew	Agree somew	Middle-o
10	.	Femal	Business sale	Disagree stron	Disagree som	Disagree stron	Agree somew	Disagree som	Agree strongly	Disagree som	Agree strongly	.
11	.	Male	Business exe	Disagree stron	Disagree som	Disagree stron	Agree somew	Agree somew	Agree somew	Agree somew	Agree strongly	Conse
12	.	Male	Physician	Disagree som	Disagree stron	Agree somew	Disagree som	Disagree som	Disagree som	Agree somew	Agree somew	Middle-o
13	.	Male	Business exe	Disagree stron	Disagree som	Disagree stron	Disagree stron	Agree somew	Disagree som	Disagree som	Agree somew	Conse
14	.	Male	Dentist (includ	Disagree som	Disagree stron	Disagree som	Agree somew	Disagree som	Disagree som	Disagree som	Agree somew	Conse
15	.	Femal	Therapist (phy	Disagree stron	Disagree stron	Agree strongly	Agree somew	Agree strongly	Agree strongly	Agree somew	Agree somew	Middle-o
16	.	Femal	Undecided [st	Disagree stron	Disagree som	Disagree stron	Agree strongly	Agree somew	Agree somew	Agree strongly	Agree somew	Middle-o
17	.	Femal	Undecided [st	Disagree som	Disagree som	Disagree som	Disagree som	Agree somew	Disagree som	Agree somew	Agree somew	Conse
18	.	Femal	Other	Disagree stron	Disagree stron	Disagree stron	Agree strongly	Agree strongly	Disagree som	Agree somew	Disagree som	L
19	.	Male	.	Agree somew	Disagree stron	Disagree stron	Disagree som	Agree strongly	Agree somew	Agree strongly	Agree somew	Conse
20	.	Male	Writer or journ	Disagree stron	Agree somew	Agree strongly	Agree strongly	Agree somew	Agree somew	Agree strongly	Disagree stron	F
21	.	Femal	Writer or journ	Disagree stron	Disagree stron	Disagree som	Agree somew	Agree somew	Disagree som	Agree somew	Agree somew	Middle-o
22	.	Male	Business exe	Agree somew	Disagree som	Disagree som	Disagree som	Disagree stron	Agree strongly	Agree strongly	Agree strongly	Middle-o
23	.	Male	Business exe	Agree strongly	Disagree stron	Disagree som	Disagree som	Agree strongly	Disagree som	Agree strongly	Agree somew	L
24	.	Male	Business exe	Disagree som	Disagree som	Disagree som	Disagree som	Disagree som	Disagree som	Disagree som	Disagree som	Conse
25	.	Male	Business own	Disagree stron	Disagree stron	Disagree stron	Agree somew	Agree somew	Disagree som	Disagree som	Agree somew	Conse
26	.	Male	.	Disagree som	Disagree stron	Agree somew	Disagree som	Disagree som	Agree somew	Disagree som	Agree somew	L
27	.	Male	Undecided [st	Disagree stron	Agree somew	Disagree stron	Disagree som	Disagree som	Disagree som	Disagree som	Agree strongly	Conse
28	.	Femal	Therapist (phy	Disagree stron	Disagree som	Agree somew	Agree strongly	.	Disagree som	Disagree som	Agree somew	.
29	.	Male	Writer or journ	Disagree stron	Disagree som	Disagree som	Agree somew	Disagree som	Agree somew	Disagree som	Agree strongly	L
30	.	Male	.	Disagree som	Disagree stron	Agree somew	Agree somew	Agree somew	Agree strongly	Disagree som	Agree somew	L

Data View Variable View

SPSS Processor is ready

start 2 No... Loyola... Divers... Views ... *brow... Micros... Micros... 2:12 PM

SPSS Frequency Tables - I

***brown bag DTA [DataSet1] - SPSS Data Editor**

File Edit View Data Transform Analyze Graphs Utilities Window Help

1 : STUDID

STUDID SEX CARE EWD0608 VIEW0609 VIEW0610 VIEW0615 VIEW0616 VIEW0617 POLIM

1 . Male Undec . Agree somew Agree somew Agree somew Disagree som Disagree som Agree somew Middle-o

2 . Femal Compu . Agree somew Disagree stron Agree somew Agree strongly Disagree som Agree strongly Agree somew Conse

3 . Femal Vete . Disagree som Disagree som Agree somew Agree somew Disagree stron Agree strongly Agree somew Middle-o

4 . Femal Undec . Agree somew Agree somew Disagree som Agree somew Disagree som Disagree som Conse

5 . Male . Agree strongly Disagree stron Disagree som Agree somew Agree somew Disagree stron L

6 . Femal Teach . Disagree stron Agree strongly Agree strongly Agree somew Agree strongly Disagree som Agree strongly L

7 . Male Busine . Disagree som Disagree stron Agree somew Agree somew Agree somew Agree somew Agree somew Conse

8 . Femal Undec . Disagree stron Disagree stron Disagree stron Disagree som Agree somew Agree somew Conse

9 . Male Busine . Disagree som Disagree som Agree strongly Agree strongly Agree somew Agree somew Agree somew Middle-o

10 . Femal Busine . Disagree som Disagree stron Agree somew Disagree som Agree strongly Disagree som Agree strongly

11 . Male Business exe Disagree stron Disagree stron Disagree som Agree somew Agree somew Agree somew Agree strongly Conse

12 . Male Physician Disagree stron Disagree stron Agree somew Disagree som Agree somew Agree somew Middle-o

13 . Male Business exe Disagree stron Disagree som Disagree stron Disagree stron Agree somew Disagree som Disagree som Conse

14 . Male Dentist (includ Disagree som Disagree stron Disagree som Agree somew Disagree som Disagree som Disagree som Conse

15 . Femal Therapist (phy Disagree stron Disagree stron Agree strongly Agree somew Agree strongly Agree somew Agree somew Middle-o

16 . Femal Undecided (st Disagree stron Disagree som Disagree stron Agree strongly Agree somew Agree somew Agree strongly Middle-o

17 . Femal Undecided (st Disagree som Disagree som Disagree som Disagree som Agree somew Agree somew Agree somew Conse

18 . Femal Other Disagree stron Disagree stron Disagree stron Agree strongly Agree strongly Disagree som Agree somew Disagree som L

19 . Male . Agree somew Disagree stron Disagree stron Disagree som Agree strongly Agree strongly Agree somew Conse

20 . Male Writer or journ Disagree stron Agree somew Agree strongly Agree strongly Agree somew Agree somew Agree strongly Disagree stron F

21 . Femal Writer or journ Disagree stron Disagree stron Disagree som Agree somew Agree somew Disagree som Agree somew Agree somew Middle-o

22 . Male Business exe Agree somew Disagree stron Disagree som Disagree som Disagree stron Agree strongly Agree strongly Middle-o

23 . Male Business exe Agree strongly Disagree stron Disagree som Disagree som Agree strongly Disagree som Agree strongly Agree somew L

24 . Male Business exe Disagree som Disagree som Disagree som Disagree som Disagree som Disagree som Disagree som Conse

25 . Male Business own Disagree stron Disagree stron Disagree stron Agree somew Disagree som Disagree som Disagree som Conse

26 . Male . Disagree som Disagree stron Agree somew Disagree som Disagree som Agree somew Agree somew L

27 . Male Undecided (st Disagree stron Agree somew Disagree stron Disagree som Disagree som Disagree som Disagree som Agree strongly Conse

28 . Femal Therapist (phy Disagree stron Disagree som Agree somew Agree strongly Disagree som Disagree som Agree somew

29 . Male Writer or journ Disagree stron Disagree stron Disagree som Agree somew Disagree som Disagree som Agree strongly L

30 . Male . Disagree som Disagree stron Agree somew Agree somew Agree strongly Disagree som Agree somew L

Data View Variable View

SPSS Processor is ready

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SPSS Frequency Tables - II

The screenshot displays the SPSS Data Editor window for a dataset named '*brown bag DTA [DataSet1]'. The 'Frequencies' dialog box is open, showing a list of variables on the left and a list of selected variables on the right. The selected variables are: 'Student (probable)', 'It is important to have a job', 'Wealthy people should be helped', 'Same-sex couples', 'A national health care system', 'How would you change the government', 'Improving my standard of living', and 'Socialize with some of the same people as I do'. The 'Display frequency tables' checkbox is checked. The background shows a data table with columns for STUDID, SEX, CAREER06, and various VIEW0605-0617 columns, along with a POLIV column. The data table contains 30 rows of data.

	STUDID	SEX	CAREER06	VIEW0605	VIEW0606	VIEW0608	VIEW0609	VIEW0610	VIEW0615	VIEW0616	VIEW0617	POLIV
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14	.	Male	Dentist (includ	Disagree som	Disagree stron	Disagree som	Agree somew	Disagree som	Disagree som	Disagree som	Agree somew	Conse
15	.	Femal	Therapist (phy	Disagree stron	Disagree stron	Agree strongly	Agree somew	Agree strongly	Agree strongly	Agree somew	Agree somew	Middle-o
16	.	Femal	Undecided [st	Disagree stron	Disagree stron	Disagree stron	Agree strongly	Agree somew	Agree strongly	Agree strongly	Agree somew	Middle-o
17	.	Femal	Other	Disagree stron	Disagree stron	Disagree stron	Agree strongly	Agree strongly	Disagree som	Agree somew	Disagree som	Conse
18	.	Femal		Disagree stron	Disagree stron	Disagree stron	Agree strongly	Agree strongly	Disagree som	Agree somew	Disagree som	L
19	.	Male		Agree somew	Disagree stron	Disagree stron	Disagree som	Agree strongly	Agree somew	Agree strongly	Agree somew	Conse
20	.	Male	Writer or journ	Disagree stron	Agree somew	Agree strongly	Agree strongly	Agree somew	Agree strongly	Agree strongly	Disagree stron	F
21	.	Femal	Writer or journ	Disagree stron	Disagree stron	Disagree som	Agree somew	Agree somew	Disagree som	Agree somew	Agree somew	Middle-o
22	.	Male	Business exe	Agree somew	Disagree som	Disagree som	Disagree som	Disagree stron	Agree somew	Agree strongly	Agree strongly	Middle-o
23	.	Male	Business exe	Agree strongly	Disagree stron	Disagree som	Disagree som	Agree strongly	Disagree som	Agree strongly	Agree somew	L
24	.	Male	Business exe	Disagree som	Disagree som	Disagree som	Disagree som	Disagree som	Disagree som	Disagree som	Disagree som	Conse
25	.	Male	Business own	Disagree stron	Disagree stron	Disagree stron	Agree somew	Agree somew	Disagree som	Disagree som	Agree somew	Conse
26	.	Male		Disagree som	Disagree stron	Agree somew	Disagree som	Disagree som	Agree somew	Disagree som	Agree somew	L
27	.	Male	Undecided [st	Disagree stron	Agree somew	Disagree stron	Disagree som	Disagree som	Disagree som	Disagree som	Agree strongly	Conse
28	.	Femal	Therapist (phy	Disagree stron	Disagree som	Agree somew	Agree strongly		Disagree som	Disagree som	Agree somew	
29	.	Male	Writer or journ	Disagree stron	Disagree stron	Disagree som	Agree somew	Disagree som	Agree somew	Disagree som	Agree strongly	L
30	.	Male		Disagree stron	Disagree stron	Agree somew	Agree somew	Agree somew	Agree strongly	Disagree som	Agree somew	L

SPSS Frequency Output

Output3 - SPSS Viewer

File Edit View Data Transform Insert Format Analyze Graphs Utilities Window Help

Output

- Frequencies
 - Title
 - Notes
 - Active Dataset
 - Statistics
 - Frequency Table
 - Title
 - Racial discrimination is no longer a major problem in America
 - Through hard work, everybody can succeed in American society
 - Undocumented immigrants should be denied access to public education
 - Affirmative action in college admissions

Racial discrimination is no longer a major problem in America

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Disagree strongly	279	32.5	33.9	33.9
	Disagree somewhat	407	47.4	49.5	83.4
	Agree somewhat	119	13.9	14.5	97.8
	Agree strongly	18	2.1	2.2	100.0
	Total	823	95.8	100.0	
Missing	System	36	4.2		
Total		859	100.0		

Through hard work, everybody can succeed in American society

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Disagree strongly	29	3.4	3.5	3.5
	Disagree somewhat	165	19.2	20.0	23.6
	Agree somewhat	371	43.2	45.1	68.7
	Agree strongly	258	30.0	31.3	100.0
	Total	823	95.8	100.0	
Missing	System	36	4.2		
Total		859	100.0		

Undocumented immigrants should be denied access to public education

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Disagree strongly	103	12.0	12.6	12.6
	Disagree somewhat	282	32.9	35.5	48.1
	Agree somewhat	371	43.2	45.1	93.2
	Agree strongly	258	30.0	31.3	100.0
	Total	823	95.8	100.0	
Missing	System	36	4.2		
Total		859	100.0		

SPSS Processor is ready

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SPSS Crosstabs - I

The screenshot shows the SPSS Data Editor window with a data view. A 'Crosstabs' dialog box is open, showing the following settings:

- Row(s):** Undocumented im...
- Column(s):** Students of Color [soc...
- Display clustered bar charts:** ☐
- Suppress tables:** ☐
- Exact... Statistics... Cells... Format...** buttons are at the bottom.

A 'Crosstabs: Cell Display' sub-dialog box is also open, showing the following settings:

- Counts:** ☒ Observed, ☐ Expected
- Percentages:** ☐ Row, ☒ Column, ☐ Total
- Residuals:** ☐ Unstandardized, ☐ Standardized, ☐ Adjusted standardized
- Noninteger Weights:** ☒ Round cell counts, ☐ Truncate cell counts, ☐ No adjustments
- ☐ Round case weights, ☐ Truncate case weights

The background data view shows a table with columns: ST, Crosstabs, VIEW0609, VIEW0610, VIEW0615, VIEW0616, VIEW0617, and POLIV. The rows contain various demographic and attitudinal data points.

SPSS Crosstabs - II

The screenshot displays the SPSS Data Editor interface with a data table in the background. The table has columns labeled VIEW0609, VIEW0610, VIEW0615, VIEW0616, VIEW0617, and POLIV. The rows contain various response categories like 'Agree somew', 'Disagree som', 'Agree strongl', and 'Disagree stron'. Overlaid on the data is the 'Crosstabs' dialog box. In the 'Row(s):' list, 'Undocumented im...' is selected. In the 'Column(s):' list, 'Students of Color [soc...' is selected. The 'Statistics...' button is highlighted. A sub-dialog box titled 'Crosstabs: Statistics' is also open, showing options for 'Nominal' (Chi-square, Contingency coefficient, Phi and Cramér's V, Lambda, Uncertainty coefficient) and 'Ordinal' (Gamma, Somers' d, Kendall's tau-b, Kendall's tau-c). The 'Chi-square' option is checked. The 'Nominal by Interval' section has 'Eta' checked. The 'Cochran's and Mantel-Haenszel statistics' section is also visible. The 'Test common odds ratio equals:' field is set to 1. The 'Continue' button is highlighted in the sub-dialog.

SPSS Crosstab Output

Output3 - SPSS Viewer

File Edit View Data Transform Insert Format Analyze Graphs Utilities Window Help

Output

- Frequencies
 - Title
 - Notes
 - Active Dataset
 - Statistics
- Frequency Table
 - Title
 - Racial discrimination is no longer a major problem in America
 - Through hard work, every
 - Undocumented immigr
 - Affirmative action in c
- Crosstabs
 - Title
 - Notes
 - Active Dataset
 - Case Processing Summar
 - Racial discrimination is no
 - Title
 - Crosstab
 - Chi-Square Tests
 - Through hard work, every
 - Title
 - Crosstab
 - Chi-Square Tests
 - Undocumented immigrants
 - Title
 - Crosstab
 - Chi-Square Tests
 - Affirmative action in colleg
 - Title
 - Crosstab
 - Chi-Square Tests

Racial discrimination is no longer a major problem in America * Students of Color

Crosstab

		Students of Color		Total
		.00	1.00	
Racial discrimination is no longer a major problem in America	Disagree strongly	Count 223	44	267
		% within Students of Color 31.3%	51.2%	33.4%
	Disagree somewhat	Count 366	33	399
		% within Students of Color 51.3%	38.4%	49.9%
Agree somewhat	Count	108	7	115
	% within Students of Color	15.1%	8.1%	14.4%
Agree strongly	Count	16	2	18
	% within Students of Color	2.2%	2.3%	2.3%
Total		Count 713	86	799
		% within Students of Color 100.0%	100.0%	100.0%

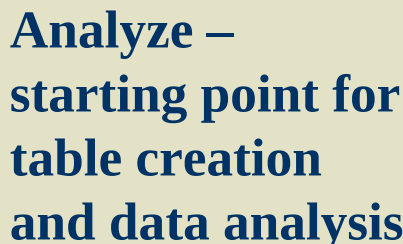
Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	14.284 ^a	3	.003
Likelihood Ratio	13.796	3	.003
Linear-by-Linear Association	10.010	1	.002

SPSS Processor is ready

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Dialog Recall – remembers what you have done in an open file



Help – includes “statistics coach”

Value Labels

Button – turns value labels on and off



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