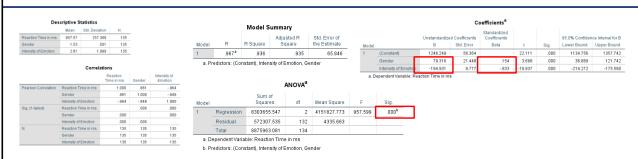
### RQ 7: Reaction time to emotional facial expressions Linear regression



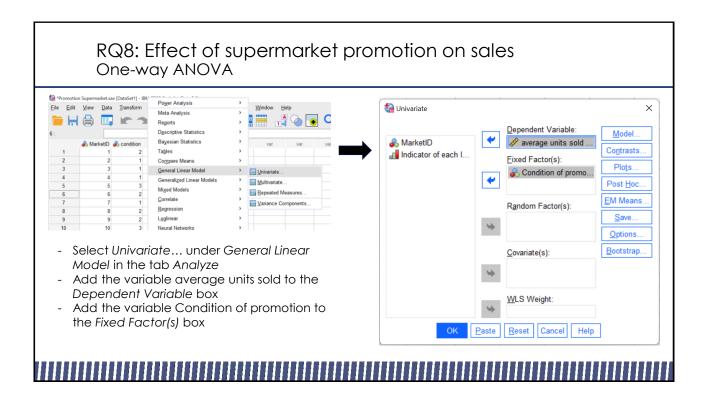
- SPSS returns several tables, the first shows descriptive statistics, the second presents correlation results, after that the model summary and regression results are listed
- The first row of the ANOVA table shows whether the overall regression is significant
- The second row and third row of the Coefficients table show the results for the two predictors, the Standardized Coefficients Beta indicates direction and strength of the effect
- In this case, we find that the overall model is significant. Moreover, both gender and intensity of emotion significantly predict reaction time

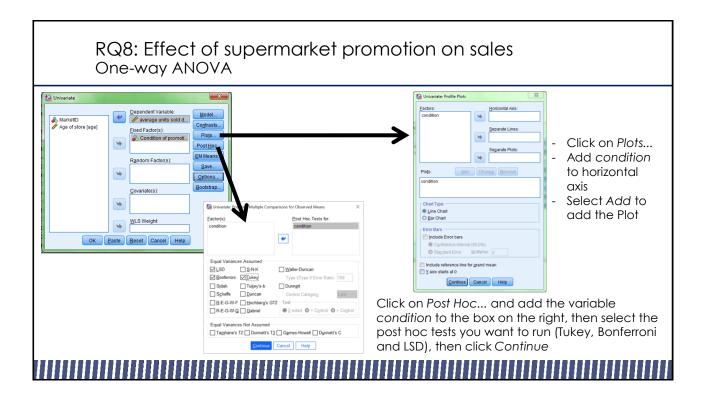
### RQ 8: Effect of supermarket promotion on sales

- Data from 133 supermarkets, effect of supermarket promotion on sales
- 3 promotion conditions: control, price reduction, price reduction + advertisement
- 2 variables: condition of promotion, average daily sale
- Did the two types of promotion have an effect on sales?
  - Duplicate cases
  - One-way ANOVA: Did the two types of promotion have an effect on sales?

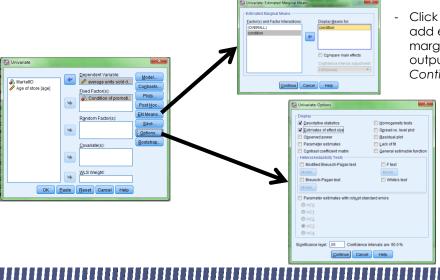
#### RQ8: Effect of supermarket promotion on sales Duplicate cases ldentify Duplicate Cases Define matching cases by <u>I</u>ransform <u>A</u>nalyze Define Variable Properties... Set Measurement Level for Ur MarketID 🗁 H 🖨 👊 🗠 🥆 🛎 🗯 📭 M 📆 & Condition of promotion [condition] average units sold daily [sales] Copy Data Properties New Custom Attribut Sort within matching groups by: 186.87 Validation Sort -宁 Descending + Select Identify SPSS has now resorted the Number of matching and sorting variables: 3 Duplicate Cases... in Variables to Create data set, so that duplicate ☑ Indicator of primary cases (1=unique or primary, 0=duplicate) the tab Data ● Last case in each group is primary Name: PrimaryLast cases are listed at the top Select all variables and O First case in each group is primary In this case, we find that the ☐ Eilter by indicator values ☐ Sequential count of matching case in each group (0=nonmatching case) add them to the box markets 44 and 67 have duplicate entries Define matching cases ✓ Move matching cases to the top of the file Display frequencies for created variables Click OK OK Paste Reset Cancel Help

#### RQ8: Effect of supermarket promotion on sales **Duplicate** cases PrimaryLast 2 44 186.87 - Since markets 44 and 67 exist 231.58 twice in the data set, we 4 231.58 delete one of each Сору 248 84 Select the two rows you 247.89 Copy with Variable Names want to delete (press the Ctrl Copy with Variable Labels 276.48 or cmd key) 259.82 Right-click on the mouse to 12 13 260.79 open a small window with 291.74 Hide Column(s) several options, click on 15 11 270.81 Clear Hide excluded cases 16 12 258.19 Variable Information. 18 308.08 19 15 247.04





# RQ8: Effect of supermarket promotion on sales One-way ANOVA



- Click on EM Means... to add estimated marginal means to the output, then click on Continue
  - Click on Options... to add statistics to the output, then click on Continue
  - Click OK in the main window to start the analysis

## RQ8: Effect of supermarket promotion on sales One-way ANOVA

#### Between-Subjects Factors

		Value Label	N
Condition of promotion	1	control	47
	2	price reduction	45
	3	price reduction and advertiseme nt	41

### Descriptive Statistics

Dependent variable: average units sold daily					
Condition of promotion	Mean	Std. Deviation	N		
control	186.7340	31.92507	47		
price reduction	215.4553	35.93417	45		
price reduction and advertisement	223.8083	30.45851	41		
Total	207.8807	36.39105	133		

- SPSS returns several tables, including frequencies in the between-subject factor, descriptive statistics and the results of the analysis
- By checking the Sig. value in the row condition of the table Tests of Between-Subjects Effects you can find that there is a main effect for the supermarket promotion
- Partial Eta Squared is a measure of effect size, in this case it indicates a large effect for the promotion (>0.14)

### Tests of Between-Subjects Effects

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	34000.607 <sup>a</sup>	2	17000.304	15.695	.000	.195
Intercept	5772256.54	1	5772256.54	5329.191	.000	.976
condition	34000.607	2	17000.304	15.695	.000	.195
Error	140808.122	130	1083.139			
Total	5922320.70	133				
Corrected Total	174808.729	132				

a. R Squared = .195 (Adjusted R Squared = .182)

### RQ8: Effect of supermarket promotion on sales One-way ANOVA

#### **Estimated Marginal Means**

#### 1. Grand Mean

Dependent Variable: average units sold daily 95% Confidence Interval Std. Error Lower Bound Upper Bound 208.666 2.858 203.011 214.321

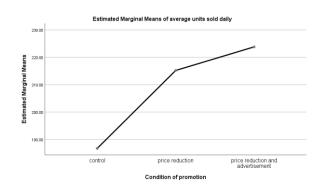
- The Estimated Marginal Means tables return descriptive statistics and confidence intervals for each promotion condition
- The plot makes it easy to visualise the main effect

2. Condition of promotion Dependent Variable: average units sold daily 95% Confidence Interval Condition of promotion Mean Std. Error.

186.734 4.801 Mean Std. Error Lower Bound Upper Bound 177.237 196.231 price reduction 215.455
price reduction and advertisement 223.808 225.161 4.906 205.749

5.140

213.640

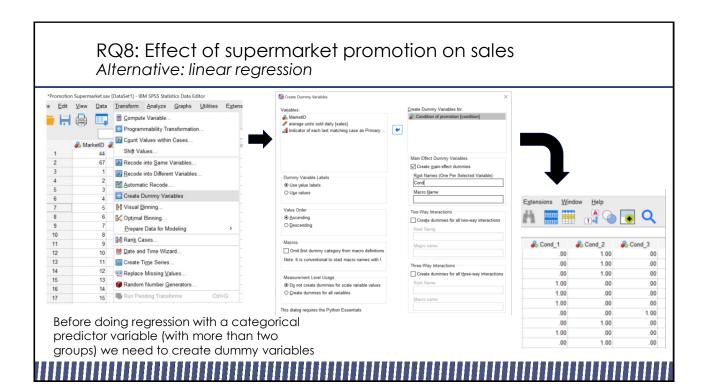


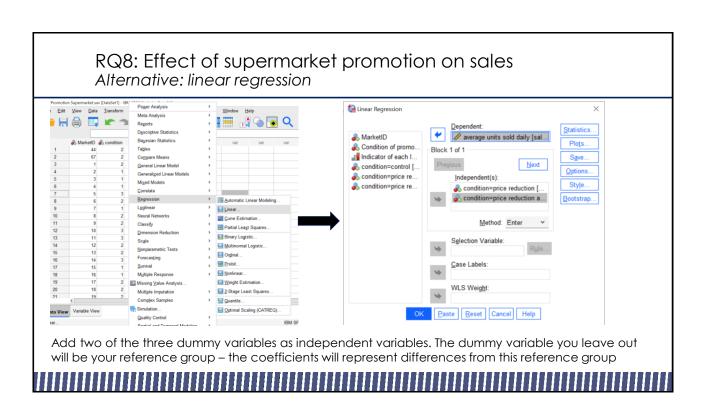
### RQ8: Effect of supermarket promotion on sales One-way ANOVA

233.977

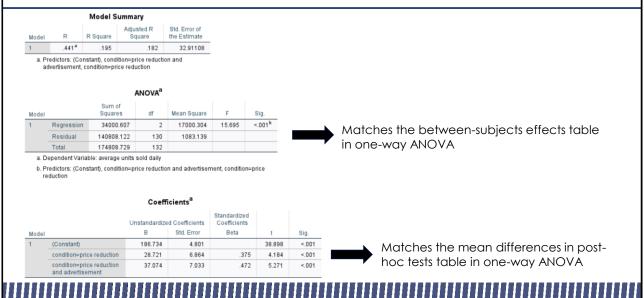
			Mean Difference (I-			95% Confidence Interval	
	(I) Condition of promotion	(J) Condition of promotion	J)	Std. Error	Sig.	Lower Bound	Upper Bound
Tukey HSD	control	price reduction	-28.7213	6.86406	<.001	-44.9950	-12.4476
		price reduction and advertisement	-37.0743	7.03303	<.001	-53.7486	-20.3999
	price reduction	control	28.7213*	6.86406	<.001	12.4476	44.9950
		price reduction and advertisement	-8.3530	7.10548	.470	-25.1991	8.4931
	price reduction and	control	37.0743	7.03303	<.001	20.3999	53.7486
	advertisement	price reduction	8.3530	7.10548	.470	-8.4931	25.1991
LSD	control	price reduction	-28.7213	6.86406	<.001	-42.3010	-15.1416
		price reduction and advertisement	-37.0743	7.03303	<.001	-50.9883	-23.1602
	price reduction	control	28.7213	6.86406	<.001	15.1416	42.3010
		price reduction and advertisement	-8.3530	7.10548	.242	-22.4103	5.7044
	price reduction and advertisement	control	37.0743	7.03303	<.001	23.1602	50.9883
		price reduction	8.3530	7.10548	.242	-5.7044	22.4103
Bonferroni	control	price reduction	-28.7213	6.86406	<.001	-45.3691	-12.0735
		price reduction and advertisement	-37.0743	7.03303	<.001	-54.1318	-20.0167
	price reduction	control	28.7213	6.86406	<.001	12.0735	45.3691
		price reduction and advertisement	-8.3530	7.10548	.726	-25.5863	8.8803
	price reduction and	control	37.0743	7.03303	<.001	20.0167	54.1318
	advertisement	price reduction	8.3530	7.10548	.726	-8.8803	25.5863

- SPSS also reports the requested Post Hoc Tests Tukey, LSD and Bonferroni
- All conditions are compared with each other
- SPSS reports the mean difference between the two compared groups, the standard error and significance of the comparison, as well as the confidence interval
- Here, we find significant comparisons between the control condition and the price reduction condition, as well as between the control condition and the price reduction and advertisement condition. The two experimental conditions do not differ from each other significantly, though.
- Tukey, Bonferroni and LSD come to the same conclusions. For real analyses, you would have preselected one of these to use





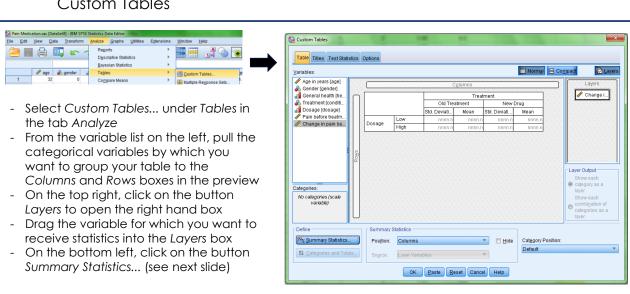
## RQ8: Effect of supermarket promotion on sales Alternative: linear regression



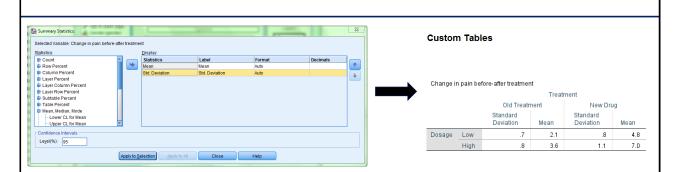
## RQ 9: Effect of new pain treatment

- Data set from RQ6
- Has the pain treatment helped the participants? Did the dosage influence the effectiveness of the treatment?
  - Custom tables: get descriptive statistics for each participant group
  - Two-way ANOVA: condition by dosage
  - Formatting graphs in output

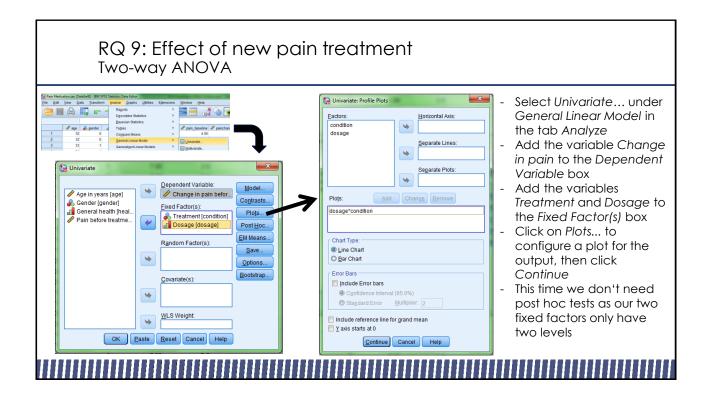
## RQ 9: Effect of new pain treatment Custom Tables

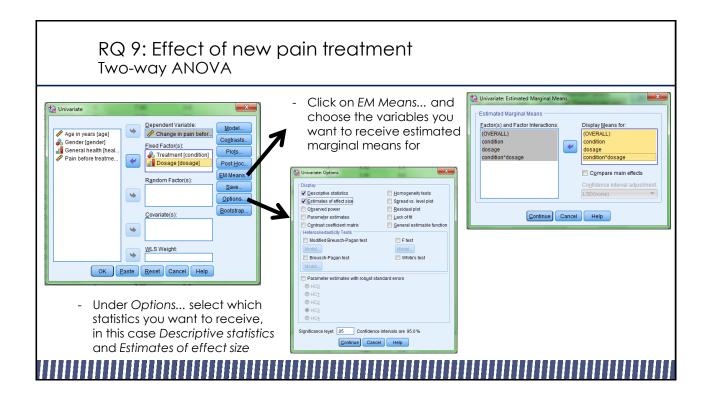






- From the Statistics box on the left, choose the statistics you want to receive and add them to the box on the right
- Click on Apply to Selection (nothing will happen), then click on Close
- In the main window click OK
- The output shows the selected statistics for each of the groups created by the categorical variables





## RQ 9: Effect of new pain treatment Two-way ANOVA

#### Univariate Analysis of Variance

#### Between-Subjects Factors

		value Label	IN
Treatment	0	Old Treatment	30
	1	New Drug	30
Dosage	1	Low	30
	2	High	30

-	The Univariate Analysis of Variance tables present trequencies in	the
	between-subject factor, descriptive statistics and the results of th	е
	analysis	

- By checking the Sig. value in the row condition of the table on the right you can find that there is a main effect for the treatment condition, Partial Eta Squared shows a large effect size

#### Descriptive Statistics

Treatment         Dosage         Mean         Std. Deviation         N           Old Treatment         Low         2.067         .7037         15           High         3.600         8.281         1.5           Total         2.833         1.0854         30           New Drug         Low         4.800         .7746         15           High         7.000         1.0690         15           Total         5.900         1.4468         30           Total         Low         3.433         1.5687         30	Dependent Vari	able: Char	nge in pain b	efore-after treatm	ent
High         3.600         8281         15           Total         2.833         1.0854         30           New Drug         Low         4.800         .7746         15           High         7.000         1.0690         15           Total         5.900         1.4468         30	Treatment	Dosage	Mean	Std. Deviation	N
Total         2.833         1.0854         30           New Drug         Low         4.800         .7746         15           High         7.000         1.0690         15           Total         5.900         1.4468         30	Old Treatment	Low	2.067	.7037	15
New Drug         Low         4.800         .7746         15           High         7.000         1.0690         15           Total         5.900         1.4468         30		High	3.600	.8281	15
High 7.000 1.0690 15 Total 5.900 1.4468 30		Total	2.833	1.0854	30
Total 5.900 1.4468 30	New Drug	Low	4.800	.7746	15
		High	7.000	1.0690	15
Total Low 3,433 1,5687 30		Total	5.900	1.4468	30
	Total	Low	3.433	1.5687	30
High 5.300 1.9678 30		High	5.300	1.9678	30
Total 4.367 1.9997 60		Total	4.367	1.9997	60

#### Tests of Between-Subjects Effects

Dependent Variable:	Change in pain	Change in pain before-after treatment					
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	
Corrected Model	195.000 <sup>a</sup>	3	65.000	88.925	.000	.827	
Intercept	1144.067	1	1144.067	1565.173	.000	.965	
condition	141.067	1	141.067	192.990	.000	.775	
dosage	52.267	1	52.267	71.505	.000	.561	
condition * dosage	1.667	1	1.667	2.280	.137	.039	
Error	40.933	56	.731				
Total	1380.000	60					
Corrected Total	235.933	59					

- There is also a large main effect for dosage
- The interaction (row condition\*dosage) is not significant (p=0.137)

## RQ 9: Effect of new pain treatment Two-way ANOVA

#### **Estimated Marginal Means**

#### 1. Grand Mean

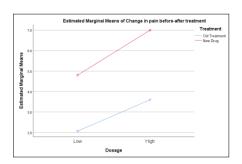
Dependen	t Variable:	Change in pain before-after treatment			
		95% Confidence Interval			
Mean	Std. Error	Lower Bound	Upper Bound		
4.367	.110	4.146	4.588		

#### 2. Treatment

Dependent Variable: Change in pain before-after treatment							
				95% Confidence Interv			
	Treatment	Mean	Std. Error	Lower Bound	Upper Bound		
	Old Treatment	2.833	.156	2.521	3.146		
	New Drug	5.900	.156	5.587	6.213		

#### 3. Dosage

Dependent Variable:		Change in pain before-after treatment				
			95% Confidence Interval			
Dosage	Mean	Std. Error	Lower Bound	Upper Bound		
Low	3.433	.156	3.121	3.746		
High	5.300	.156	4.987	5.613		



### 4. Treatment \* Dosage Dependent Variable: Change in pain before-after treatment

 Treatment
 Dosage
 Mean
 Std. Error
 Cower Bound
 Upper Bound

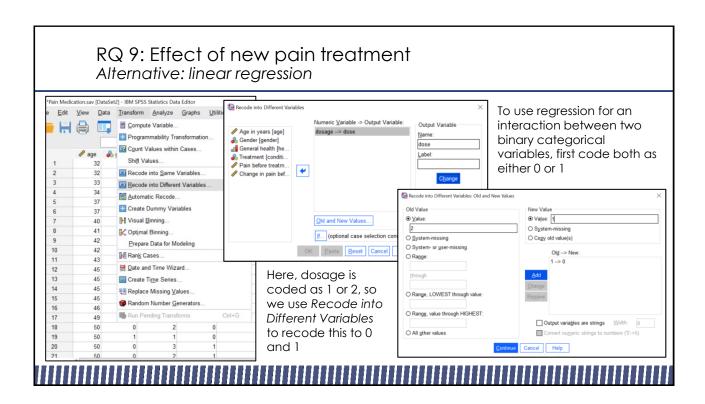
 Old Treatment
 Low
 2.067
 .221
 1.624
 2.509

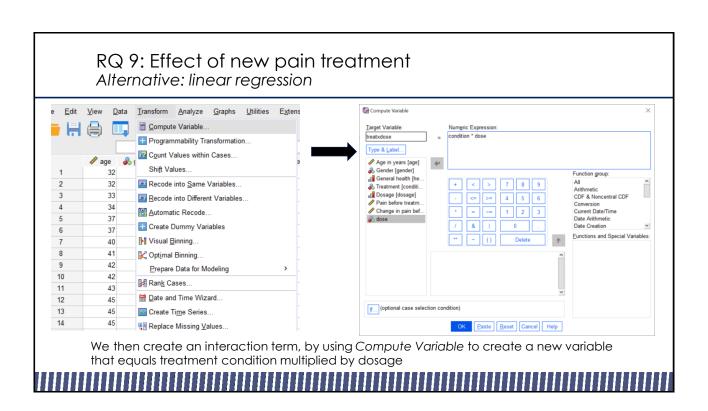
 High
 3.600
 .221
 3.158
 4.042

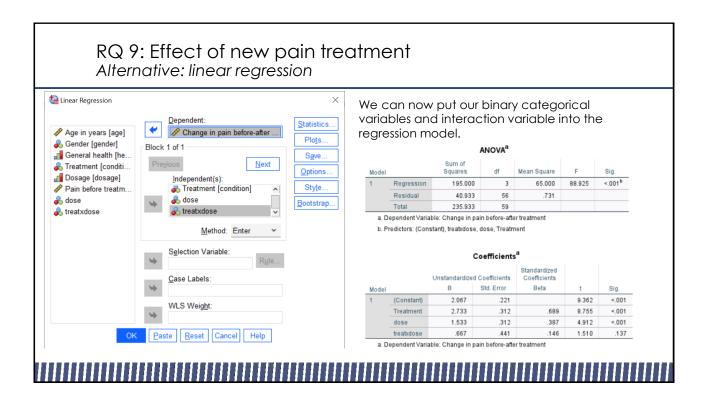
 New Drug
 Low
 4.800
 .221
 4.358
 5.242

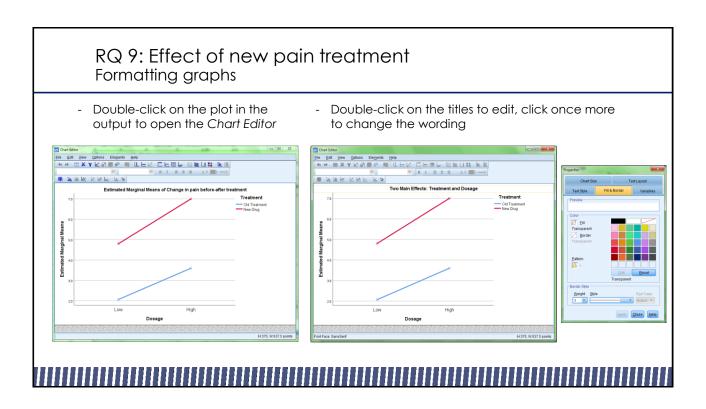
 High
 7.000
 .221
 6.558
 7.442

- The Estimated Marginal Means tables return confidence intervals for the main effect and the interaction variables
- The plot makes it easy to visualise the two main effects
- Here we have approximately parallel lines (no interaction)



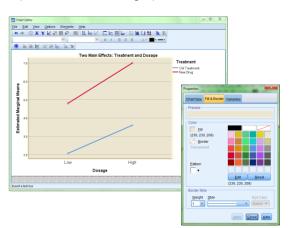




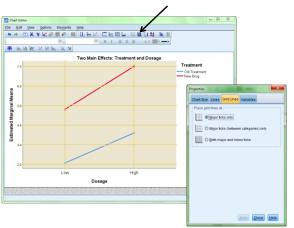


## RQ 9: Effect of new pain treatment Formatting graphs

- Double-click on the plot background to open more formatting options



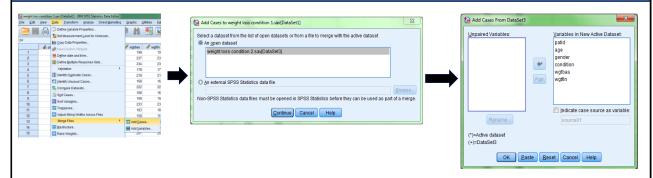
Click on the grid symbol to add a grid to the chart



## RQ 10: Effect of weight loss programme

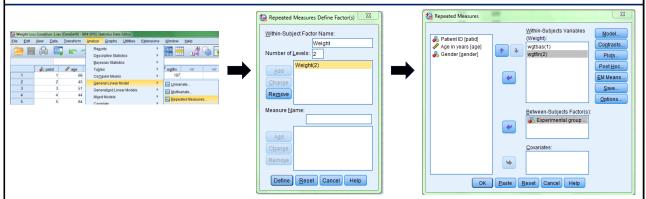
- Data set of 64 participants who participated in a weight loss study
- 4 variables: gender, condition (control or treatment), weight at baseline, weight at finish
- Have participants in the weight loss treatment condition lost more weight?
  - · Merge files: condition and treatment
  - Repeated/mixed ANOVA
  - Cleaning output
  - Formatting tables
  - · Exporting graphs and tables

## RQ 10: Effect of weight loss programme Merge files

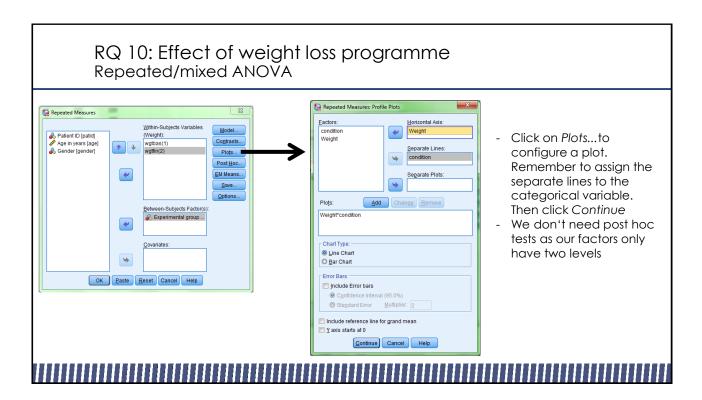


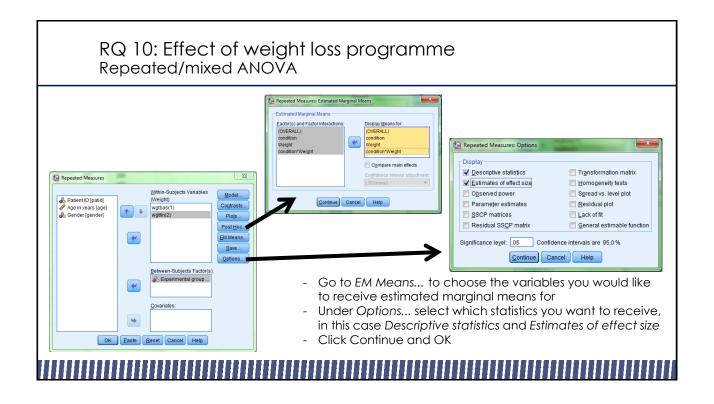
- Make sure that the two data sets that you want to merge are opened in SPSS, work in weight loss condition 1.sav
- Select Add Cases... under Merge Files in the tab Data
- Select the weight loss condition 2.sav in the box and click Continue
- Check that there are no unpaired variables in the left box, then click OK

## RQ 10: Effect of weight loss programme Repeated/mixed ANOVA



- Select Repeated Measures... under General Linear Model in the tab Analyze
- Give a name to the Within-Subject Factor and enter "2" in the box asking for the number of levels of this variable (weight baseline and weight finish), then click Define
- Drag the variables wgtbas and wgtfin into the Within-Subjects Variables box, then add the experimental group variable to the Between-Subjects Factor(s)box





## RQ 10: Effect of weight loss programme Repeated/mixed ANOVA

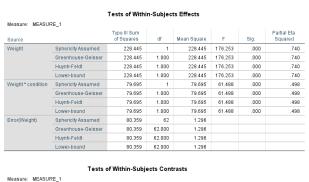
- The Repeated Measures ANOVA returns several tables, including frequencies in the between-subject factor, descriptive statistics and the results of the analysis
- Since we only have two levels in our within-subject factor, we can ignore the Mauchly's Test of Sphericity, as sphericity is assumed

Between-Subjects Factors					
		Value Label	N		
Experimental group	1	Control	32		
	2	Treatment	32		

	Descriptive Statistics									
	Experimental group	Mean	Std. Deviation	N						
Weight Baseline	Control	198.72	32.908	32						
	Treatment	198.38	32.928	32						
	Total	198.55	32.656	64						
Final weight	Control	197.63	32.750	32						
	Treatment	194.13	32.953	32						
	Total	195.88	32.638	64						

Effect		Value	F	Hypothesis di	Error df	Sig.	Partial Eta Squared
Weight	Pillai's Trace	.740	176.253 <sup>b</sup>	1.000	62.000	.000	.740
	Wilks' Lambda	.260	176.253 <sup>b</sup>	1.000	62.000	.000	.740
	Hotelling's Trace	2.843	176.253 <sup>b</sup>	1.000	62.000	.000	.740
	Roy's Largest Root	2.843	176.253 <sup>b</sup>	1.000	62.000	.000	.740
Weight * condition	Pillai's Trace	.498	61.488 <sup>b</sup>	1.000	62.000	.000	.498
	Wilks' Lambda	.502	61.488 <sup>b</sup>	1.000	62.000	.000	.498
	Hotelling's Trace	.992	61.488 <sup>b</sup>	1.000	62.000	.000	.498
	Roy's Largest Root	.992	61,488 <sup>b</sup>	1.000	62.000	.000	.498
a. Design: Interco Within Subject b. Exact statistic	ept + condition ts Design: Weight						
Within Subjec		Mauchl	y's Test o	f Sphericity <sup>a</sup>			
Within Subject	ts Design: Weight	Mauchl	y's Test o	f Sphericity <sup>a</sup>			
Within Subject	ts Design: Weight		y's Test o			Epsilon <sup>b</sup>	
Within Subject b. Exact statistic  Measure: MEASUF	ts Design: Weight	Mauchly Approx. Chi- Square	y's Test o		Greenhouse- Geisser	Epsilon <sup>b</sup> Huynh-Feldt	Lower-bou
Within Subjects Effe Weight	ts Design: Weight	Approx. Chi- Square .000	df	Sig.	Greenhouse- Geisser 1.000	Huynh-Feldt	Lower-bou

## RQ 10: Effect of weight loss programme Repeated/mixed ANOVA

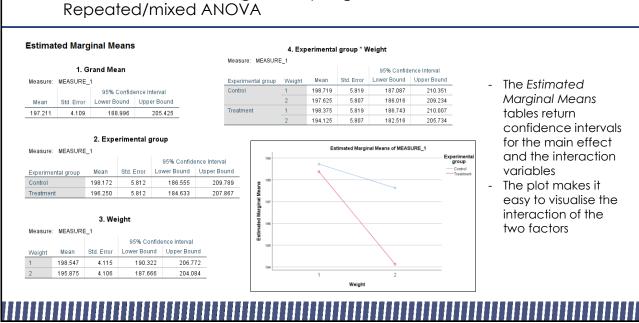


	Tests of Within-Subjects Contrasts									
Measure: MEASUR	RE_1									
Source	Weight	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared			
Weight	Linear	228.445	1	228.445	176.253	.000	.740			
Weight * condition	Linear	79.695	1	79.695	61.488	.000	.498			
Error(Weight)	Linear	80.359	62	1.296						

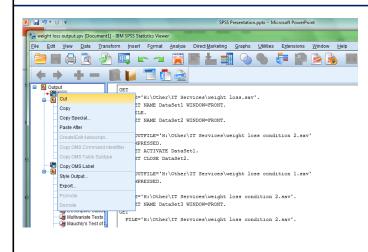
	Te	sts of B	etween-Subje	cts Effects	5	
Measure:	MEASURE_1					
Transform	ed Variable: Avera	ge				
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	4978195.695	1	4978195.695	2303.093	.000	.974
condition	118.195	1	118.195	.055	.816	.001
Error	134014.609	62	2161.526			

- These three tables contain the results of the ANOVA
- By checking the Sig. value in the rows of Weight and Weight\*condition of the Tests of Within-Subjects Contrasts table you can find that there is a main effect for weight change, as well as a significant interaction between the condition and weight change, Partial Eta Squared shows a large effect size in both cases
- The Tests of Between-Subjects Effects table reveals that there is no significant main effect of the condition

## RQ 10: Effect of weight loss programme Repeated/mixed ANOVA

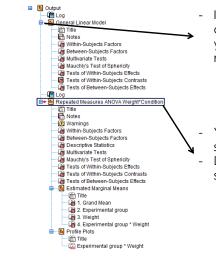


## RQ 10: Effect of weight loss programme Cleaning Output



- The Logs in the output explain which calculations SPSS exactly ran, however, they also clog up the output, making it hard to keep the overview
- To delete them from the output, rightclick on the log and select the Cut option

## RQ 10: Effect of weight loss programme Cleaning Output



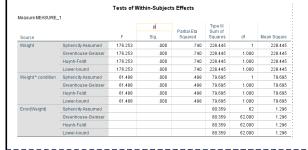
If you do not want to delete a test or log from the output but you want to hide it to gain more overview, you can click on the minus symbols next to the mother tabs

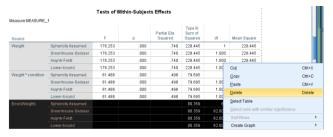
- You might want to give your analyses different names so they are not all called the same
- Double-click on the rows you want to rename and start editing

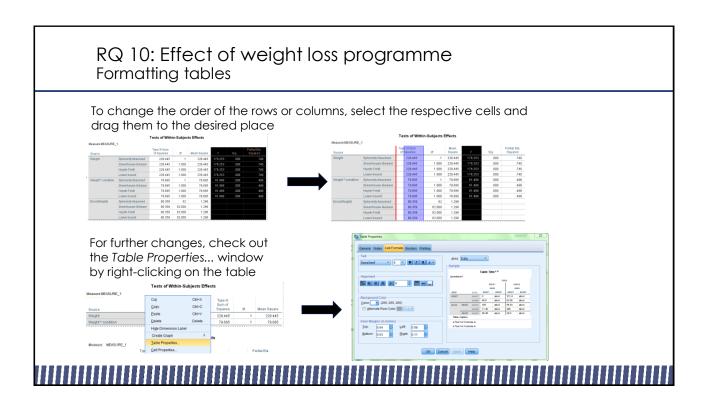
## RQ 10: Effect of weight loss programme Formatting tables

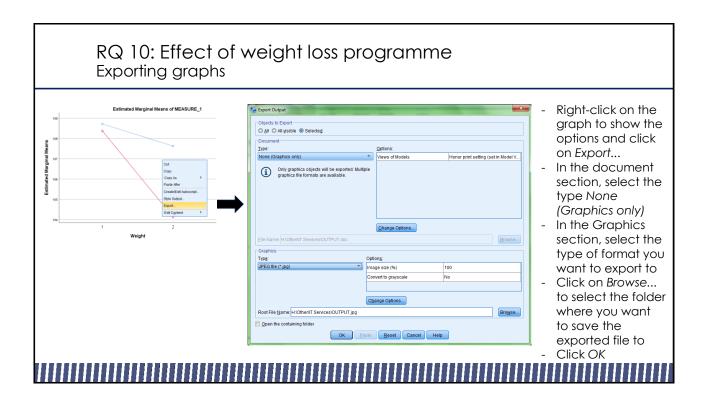
Double-click on the table you want to format to activate it

- To change the headings in the table, double-click on the heading in question and edit
- To delete unnecessary rows or columns, select the respective cells and right-click to get to the option Delete









#### RQ 10: Effect of weight loss programme **Exporting tables** Objects to Export ○ All ○ All visible ● Selected Right-click on the Type: WordRTF (\*doc) Web Report (\*htm or \*.mht) Portable Document Format (\*.pdf) PowerPoint (\*.ppf) Text - Plain (\*.tdf) Text - UTF3 (\*.tdf) Text - UTF16 (\*.tdf) WordRTF (\*.tdf) WordRTF (\*.tdf) table to show the 4. Experimental group \* Weight options and click on Export... In the document section, select the type of File Name: H:\Other\IT Services\OUTPUT.doc Browse... format you want to export to Click on Browse... to select the folder where you want to save the exported file to OK Paste Reset Cancel Help Click OK

Additional features of SPSS

## Syntax window

- File which gathers all the code produced during analysis
- Can be used to keep track of actions
- Can be used to reproduce analysis easily
- Can be used to modify output (especially graphs) without having to re-do lots of steps

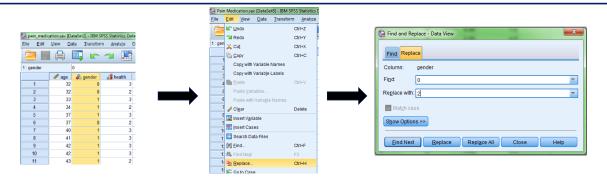
## Additional Functionality

- Find and Replace
- Explore Data (including normality tests)
- Crosstabs
- Reliability Analysis
- SPSS Settings

### Find and Replace

- · Can exchange specific values of a column by finding and replacing them
- Similar to recode into same variables
- E.g. changing coding of male gender from 0 to 2 in the pain medication data

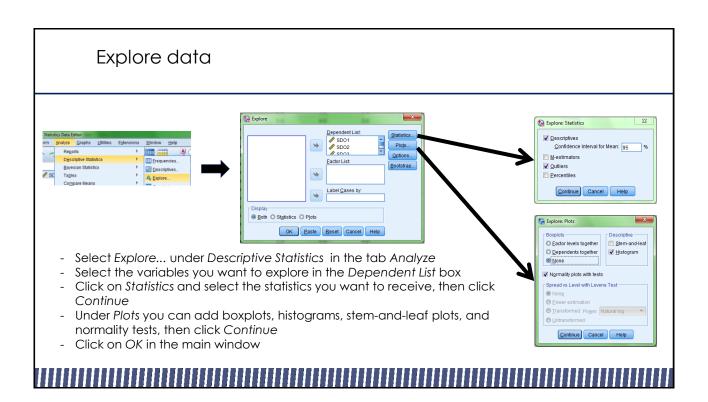
## Find and Replace



- Select the column in which you want to replace the values by clicking on the variable name
- Click on Find... in the tab Edit
- Select the tab Replace, then define which value you want to find and which value you want to replace it with
- Click on Replace All to replace the values in the selected column

### Explore data

- Presents descriptive statistics
- · Can return extreme values
- Can create histograms, boxplots, Q-Q plots and stem-and-leaf plots
- Can test for normal distribution
- Use Reliability data



### Explore data

	Desc	criptives		
			Statistic	Std. Error
SD01	Mean		3.966	.0789
	95% Confidence Interval	Lower Bound	3.810	
	for Mean	Upper Bound	4.122	
	5% Trimmed Mean		4.018	
	Median Variance		4.000	
	Variance		.734	
	5% Trimmed Mean Median Variance Std. Deviation Minimum Maximum Range		.8567	
			2.0	
			5.0	
	Range	3.0		
	Interquartile Range	nterquartile Range		
	Skewness		681	.223
	Kurtosis		.041	.442
SD02	Mean		4.559	.0596

			Case Number	Value
SD01	Highest	1	22	5.0
		2	27	5.0
		3	28	5.0
	Lowest	4	29	5.0
		5	32	5.0*
		1	113	2.0
		2	102	2.0
		3	98	2.0
		4	73	2.0
		5	72	2.0
SD02	Highest	1	4	5.0
		2	6	5.0
		3	7	5.0
		4	9	5.0

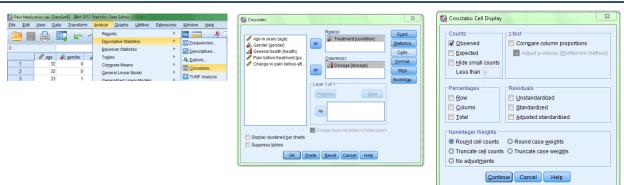
	Kolmo	gorov-Smirr	nov <sup>a</sup>	SI	napiro-Wilk	
	Statistic	df	Sig.	Statistic	df	Sig.
SD01	.287	118	.000	.831	118	.00
SD02	.362	118	.000	.624	118	.00
SD03	.327	118	.000	.738	118	.00
SD04	.381	118	.000	.623	118	.00
SD05	.269	118	.000	.858	118	.00
SD06	.326	118	.000	.685	118	.00

- SPSS returns a table with the standard set of descriptive statistics
- If the Outliers option was selected under Statistics, SPSS displays the most extreme values for each variable
- If the Normality plots with tests option was selected under Plots, SPSS returns Kolmogorov-Smirnov and Shapiro-Wilk test results. In both cases, significant results indicate that the distribution is significantly non-normal
- SPSS returns the requested plots

### Crosstabs

- Allows you to create tables which group the sample according to categorical variables
- Simple version of custom tables
- Use pain medication data

### Crosstabs

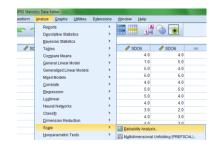


- Select Crosstabs... under Descriptive Statistics in the tab Analyze
- Add the variable Treatment and Dosage into the boxes for Row(s) and Coloumn(s)
- Click on Cells... to specify the content of the cells of the crosstabs, in this case we want the
  observed count in order to see how many people are in each condition, then click Continue
- Click OK

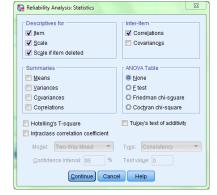
## Reliability Analysis

- Allows you to assess internal reliability of a questionnaire with several items
- Returns Cronbach's Alpha
- Can request Cronbach's Alpha if items were deleted

### Reliability Analysis

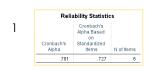






- Select Reliability Analysis... under Scale in the tab Analyze
- Select the item variables you want to test and add them to the box on the right
- Open the Statistics... window and select the statistics of interest, then click Continue
- Click OK in the main window

## Reliability Analysis



	Mean	Std. Deviation	N
SD01	3.966	.8567	118
SDO2	4.559	.6477	118
SD03	4.441	.6608	118
SDO4	4.525	.8135	118
SDO5	3.788	1.0115	118
SD06	4.449	.7578	118

2

Item Statistics

		Inter-Item Correlation Matrix								
		SD01	SD02	SD03	SDO4	SD05	SD06			
3	SD01	1.000	.450	.449	.320	.297	.274			
J	SD02	.450	1.000	.438	.459	.117	.476			
	SD03	.449	.438	1.000	.265	.294	.301			
	SDO4	.320	.459	.265	1.000	.022	.335			
	SD05	.297	.117	.294	.022	1.000	.114			
		074								

	SD01	SD02	SD03	SD04	SD05	SD06
SD01	1.000	.450	.449	.320	.297	.274
SD02	.450	1.000	.438	.459	.117	.476
SD03	.449	.438	1.000	.265	.294	.301
SD04	.320	.459	.265	1.000	.022	.335
SD05	.297	.117	.294	.022	1.000	.114
SD06	.274	.476	.301	.335	.114	1.000

		Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	So M Co
	SD01	21.763	6.200	.545	
4	SDO2	21.169	6.860	.583	
	SD03	21.288	6.959	.535	
	SDO4	21.203	6.933	.389	
	SD05	21.941	6.962	.239	
	SD06	21.280	6.972	.428	

Item-Total Statistics

.622

.743

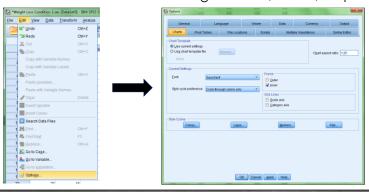
.249

Variance Std. Deviation N of Items 25.729 9.259 3.0429

- The first table shows the overall Cronbach's Alpha, when all 6 items are included
- The second table depicts item statistics, the third table shows the requested inter-item correlations
- In the last column of table 4 you can find the potential Cronbach's Alpha when deleting the respective item
- Table 5 shows the statistics of the scale when including all 6 items

## **SPSS Settings**

• Can set defaults for the formatting of charts, tables, outputs generally, etc.



### **Further Exercises**

- 1. For the condition variable in the pain\_medication file, find and replace the control group's value from 0 to 1 and the treatment group's value from 1 to 2.
- 2. In the pain\_medication file, create crosstabs with the categorical variables gender and general health to find out how many participants fall into each group.
- 3. In the breakfast file, explore the satiety variables and check whether they are normally distributed. Use a syntax file to perform this task.