

## المحور رقم (20) مدخل تعريفي بمجموعة برامج (SPSS) تحرير البيانات • استحداث/ حساب متغير جديد

Suppose that the researcher would like to include an extra column in the example which indicates the 'body-mass index (BMI)'. The BMI is defined as the body weight in kilograms divided by the square of the height in metres. let use the table below:

Table 1.1			
Name	Gender	Height (cm)	Weight (kg)
Joseph Caitlin Charles Catherine Peter	1 0 1 0 1	180 165 175 170 185	75 67 80 70 75

The path to be followed to calculate an additional variable is Transform/Compute Variable



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(Data editing)						يانات	تحرير البب
• Creating/calculating a new	v variabl	e			تغير جديد	ت/ حساب ما	• استحدا
The new variable	单 SPS	SS Statistics	File Ed	dit View	Data T SS Statistics	<b>Transform</b> s Data Editor	Analyze I
			<b>,</b>	<b>~</b>	i 📥 =	i n	*; ⊻
Ē	11 :				v	isible: 5 of 5	Variables
		Name	Gender	Height	Weight	BMI	v
	1	Joseph	male	180.00	75.00	23.15	
	2	Caitin	female	165.00	67.00	24.61	
	3	Charles	male	175.00	80.00	26.12	0
	4	Catherine	male	185.00	75.00	21.91	
	5						
		-					
			Data Ma	0 Madab	le Menu		
			Data Viev	Variab	le View		
		IBM	SPSS Stati	stics Proc	essor is re	ady	
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1. When the researcher would like to go back and work on all of the observations, he will once again follow the path Data/Select Cases and recheck the default setting 'All Cases'.





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(Data editing)								لبيانات	تحرير ا
• Splitting the data file							البيانات	م قاعدة	• تقسير
Split file:	SPS	S Statistic	s File E	dit View DataSet11	Data 1 - IBM SPSS	Transform Statistics Da	Analyze ata Editor	Direct Mar	rketing Gr
You can now see that the observations have been	26		<b>.</b>	<b>2</b>	1	<b>1</b> 14	*		₫ <u>₩</u>
replied by 'gender' in the	1 : Name		Caltin				Vo	ible: 5 of 5	Variables
Taliked by gender in the	_	Name	Gender	Height	Weight	EW.	- VD7	v2r	
Data View tab. the output	1	Catherine	Semale	185.00	75.00	21.91			
for the indicated analysis <sup>L</sup>		Joseph	male	180.00	75.00	23.15			-
will be grouped separately	4	Charles	male	175.00	80.00	26.12			- " I I I
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for men and women.	6								
	7								
	8								
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	11								
		-	-	_		_			
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				Data Vie	w Variab	le View			
			IBM S	PSS Statis	tics Proces	ssor is read	hy	Split	by Gender
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1. In general, it is best to recode a variable into a different variable so that you never alter the original data and can easily access the original data if you need to make different changes later on.





**Recode into Different Variables:** Let's say that these five people must complete a questionnaire. we assume that this questionnaire consists of three questions (statements) in which their preferences regarding candy are being studied. The three statements must be evaluated on a 7-point scale, ranging from 'totally disagree (1)' to 'totally agree (7)'.

**Question 1:** When I watch television in the evening, I eat candy on a regular basis. **Question 2:** If I'm hungry between meals, I will eat fruit more often than candy. **Question 3:** I always like to add extra sugar to my dessert.

## Their answers are shown in this table:

Name	Question 1	Question 2	Question 3	23
Joseph Caitlin Charles Catherine Peter	7 2 5 3 6	3 5 1 6 2	6 3 5 2 6	
		-	÷	

ne re	esearch <u>er</u>	wishes to	o perfor	m an ana	lysis of t	this data	ı (e.g. ca	lculate
erag estio	e for ca	ndy pret	ference') 'in the s	, he mu	ust first	detern	nine wh	ether t
	Name	Gender	Height	Weight	BMI	Question1	Question2	Question3
1	Joseph	1.00	180.00	75.00	23.15	7.00	3.00	6.00
2	Caitin	.00	165.00	67.00	24.61	2.00	5.00	3.00
3	Charles	1.00	175.00	80.00	26.12	5.00	1.00	5.00
4	Catherine	.00	185.00	70.00	24.22	3.00	6.00	2.00
	peter	1.00	185.00	75.00	21.91	6.00	2.00	6.00

1. A high score indicates that these people are not so quick to reach for candy, while a high score for questions 1 and 3 indicates that there is a great preference for candy.



	موعة برامج (SPSS)	المحور رقم (02) مدخل تعريفي بمجد
(Data editing)		تحرير البيانات
• Recoding variables		<ul> <li>إعادة ترميز المتغيرات</li> </ul>
For each value to be recovalue.	ded, the researcher	must input the old and the new
<ol> <li>For 'Old Value', fill in the value to be changed and under 'New Value', type the new value (1). Next, click on the 'Add' button</li> <li>Click Continue</li> <li>then Click Ok</li> </ol>	Old Value Value: 7 System-missing System-oruser-missing Range: through Range, LOWEST through value: Range, value through HICHEST: All other values Hele	New Value:         System-missing         Copy old value(s)         Old> New:         1> 7         Add         3> 5         4> 4         Change         5> 3         6> 2         Remove         Output variables are strings         Wdth:         6 convert numeric strings to numbers (%->5)
4. An extra variable with t View' tab. See in the next s	he recoded values hali	as been created in the 'Data
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Recodir	ig variab	les							لمتغيرات	ترميز ال
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	Name	Gender	Height	Weight	BMI	Question1	Question2	Question3	Question2r	
1	Joseph	1.00	180.00	75.00	23.15	7.00	3.00	6.00	\$.00	
2	Caltin	.00	165.00	67.00	24.61	2.00	5.00	3.00	3.00	
3	Charles	1.00	175.00	80.00	26.12	5.00	1.00	5.00	7.00	
	Catherine	.00	185.00	70.00	24.22	3.00	6.00	2.00	2.00	
4	peter	1.00	185.00	75.00	21.91	6.00	2.00	6.00	6.00	
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