الباب الخامس
البرنامج الإحصائي SPSS

SPSS 10.0 for Windows

	var	var	var	var	var	var	
1							
2					:		
3							
4			SPSS		.1		
5							
6							
7					.2		
8							
9					.3		
10							
11							
12					.4		
13							
14					.5		
15							
16							

Untitled - SPSS

File Edit View Data Transform Analyze Graphs Utilities Window Help

\ Data View \ Variable View \

SPSS Processor is ready

الباب الخامس

البرنامج الإحصائي SPSS

❖ **مقدمة Introduction**

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SPSS

SPSS .

1992 (Main Frame)

Microsoft Windows

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SPSS .

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SPSS

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❖ البيانات Data

SPSS

SPSS for Windows

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SPSS

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:
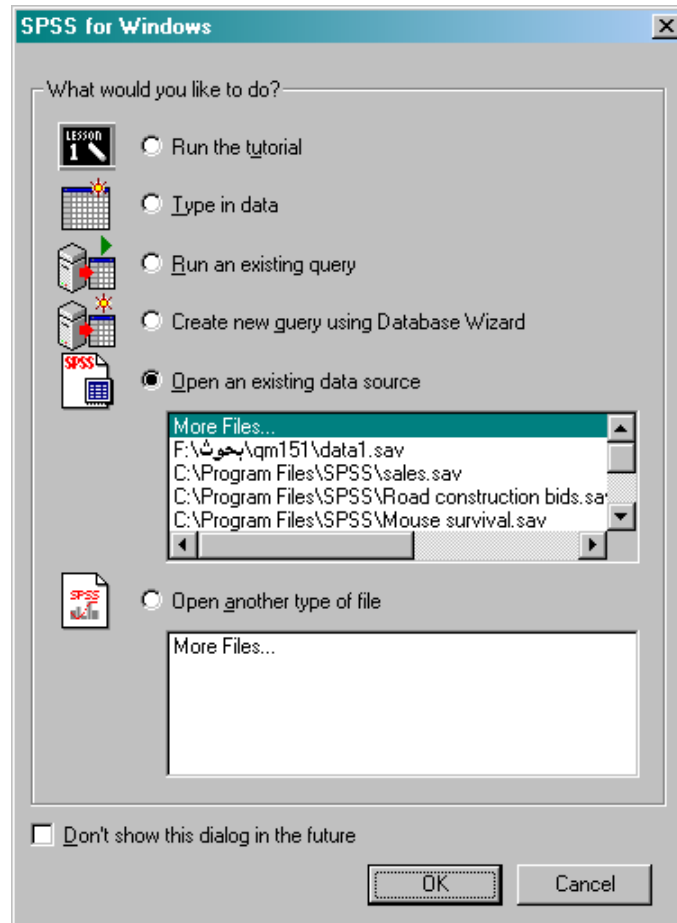
(tutorial)

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SPSS

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SPSS

(**Data View**) .

: (**Variable View**)

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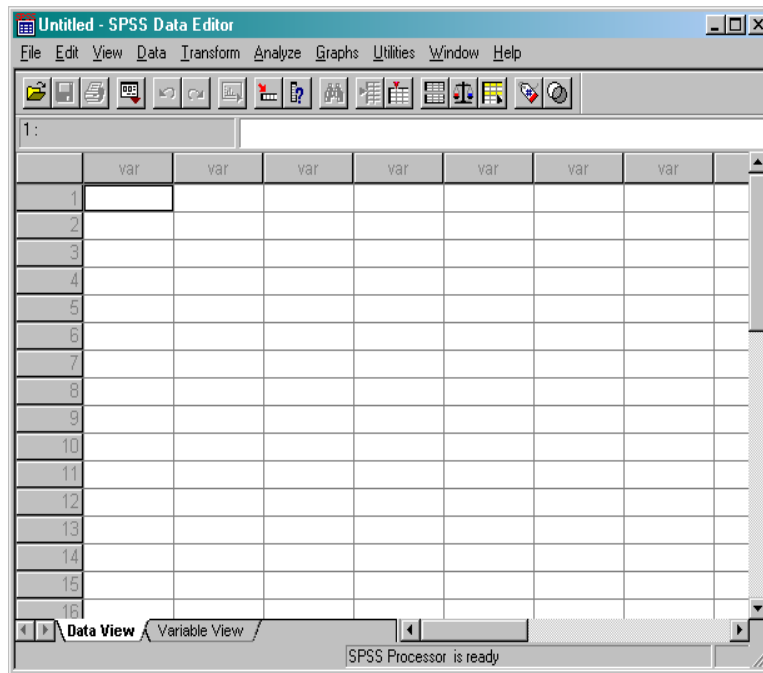
Variable   View

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：
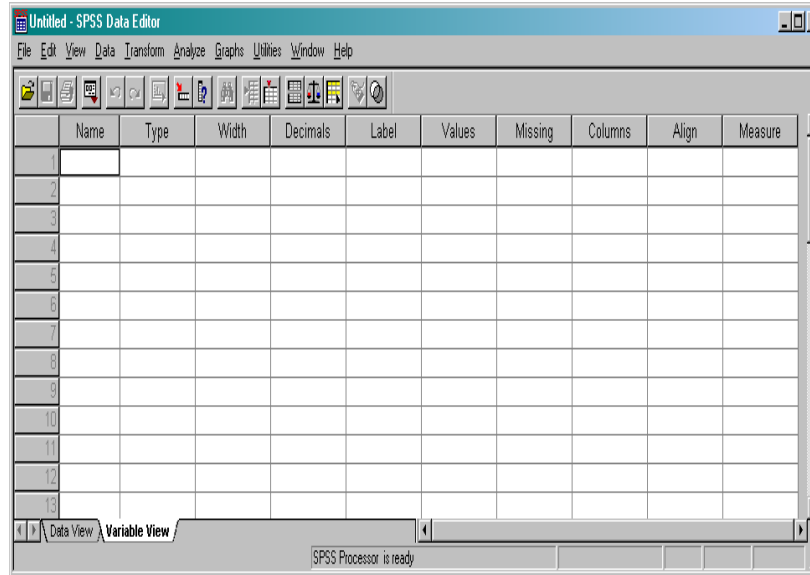
▪ **اسم المتغير Name:**

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($ # @ . _ :   )

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■ **نوع المتغير Type:**

SPSS

(Numeric)

:
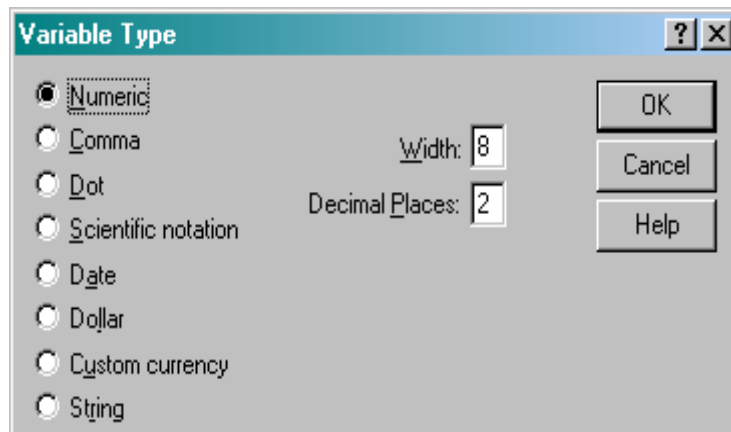
(Comma)

(Dot)

.

(Scientific Notation)

(E)

.   .

| | E | |

.

$$236.563E05 = 236.563 \times 10^{5} = 23656300$$

$$200.03E\text{-}05 = 200.03 \times 10^{-5} = 0.0020003$$

.**SPSS**

(Width)   **8**

(Decimal places)   .

.

y   **m**   **d**

:

SPSS

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:

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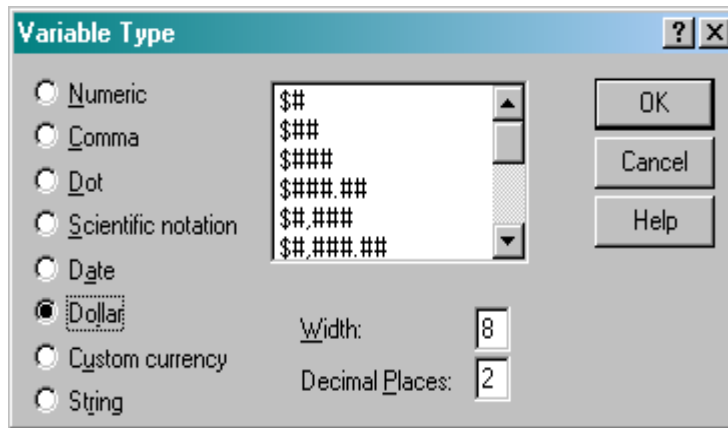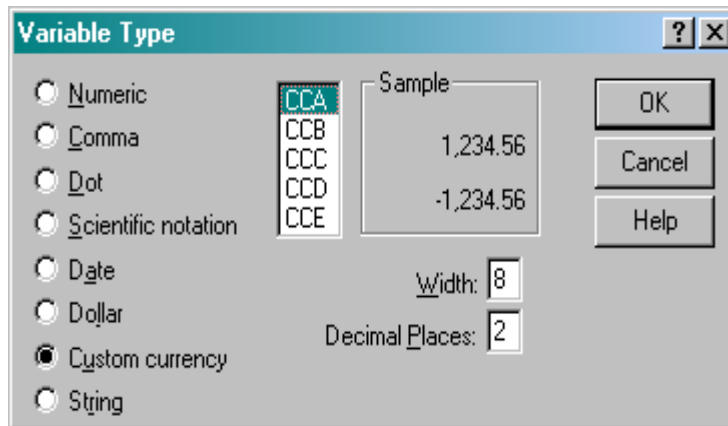
CCE   CCD   CCC   CCB   CCA

.

currency   **Options**   **Edit**

:
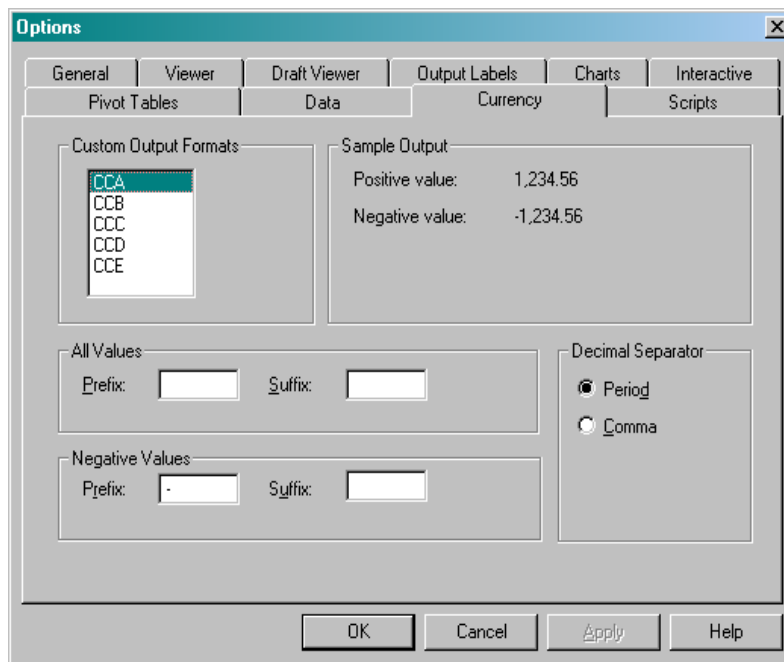
(**Prefix**)   .

(**Suffix**)   .

.

CCA

SR

.   .

String

.**(Variable Type)**

:

Width العرض:

.

Decimals عدد الأرقام العشرية:

.

Label العنوان:

.

.

- **القيم Values:**

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.

.

0 " " 1

" " f m

" " " " .

:

values

.variable view

Add

.   :

labels value   .

.**view**

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SPSS

Edit **options**

:

.

▪ القيم المفقودة Missing:

( )

.

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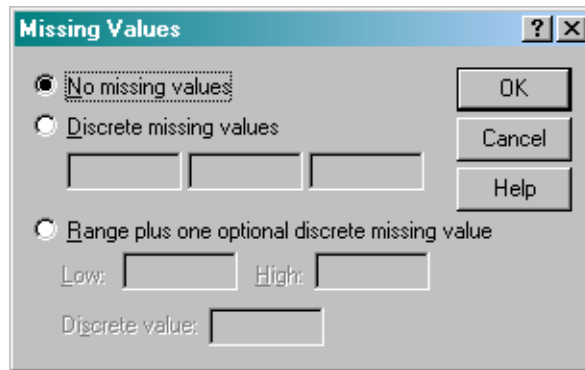
- **الأعمدة Columns:**

.

- **المحاذاة Align:**

.
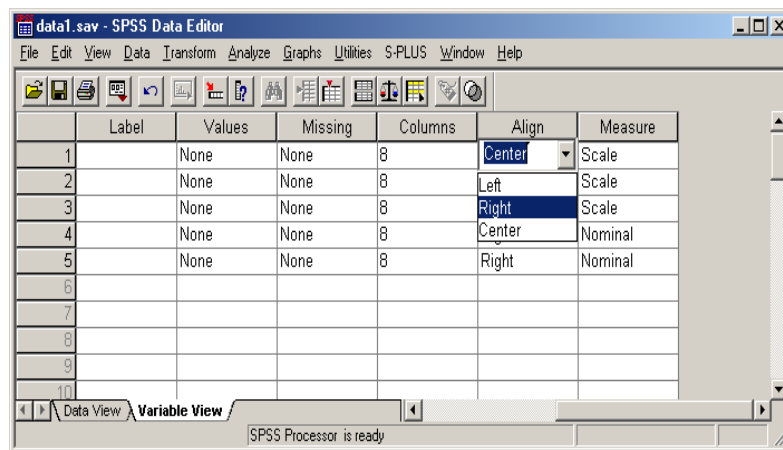
▪ **المقياس Measure:**

Scale

Ordinal ( ) **Nominal**

.

❖ **استيراد وتصدير البيانات Import and Export Data**

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Microsoft

Windows

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(Text Files)

SPSS . **SPSS**

.

( ) **Open File** **SPSS**

dBase SYLK SYSTAT LOTUS EXCEL

Text Data .

SPSS

(Text)   .EXCEL

Files   **Text**   **Open File**

of Type (   ).

Open (   ).

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SPSS

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Next

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Save Data .

SPSS ( ) **As**

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SPSS

Tab-delimited

Fixed ASCII   **Save As Type**

.

.SPSS

SPSS

EXCEL   .

.

EXCEL **SPSS**

Save Data **Save As Type** **EXCEL**

As .

❖ **الدوال Functions**

SPSS

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●
●
●
●
●

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•

.

(compute...)

.**(Transform)**

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Target Variable

(Numeric Expression)

(Functions)

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:

- **a1**
- **a2** 1,2,3
- **a3** 1,0
- **b1** (m,f)
- **b2** (a,b,c)

a2 a3 0

.

.

（variable view)

:

a4

:

$$a4 = \frac{a1^{\left(\frac{a2+a3}{2}\right)}}{a2^2 + \left(a3 + a2 * a3\right)}$$

SPSS (**Compute**)
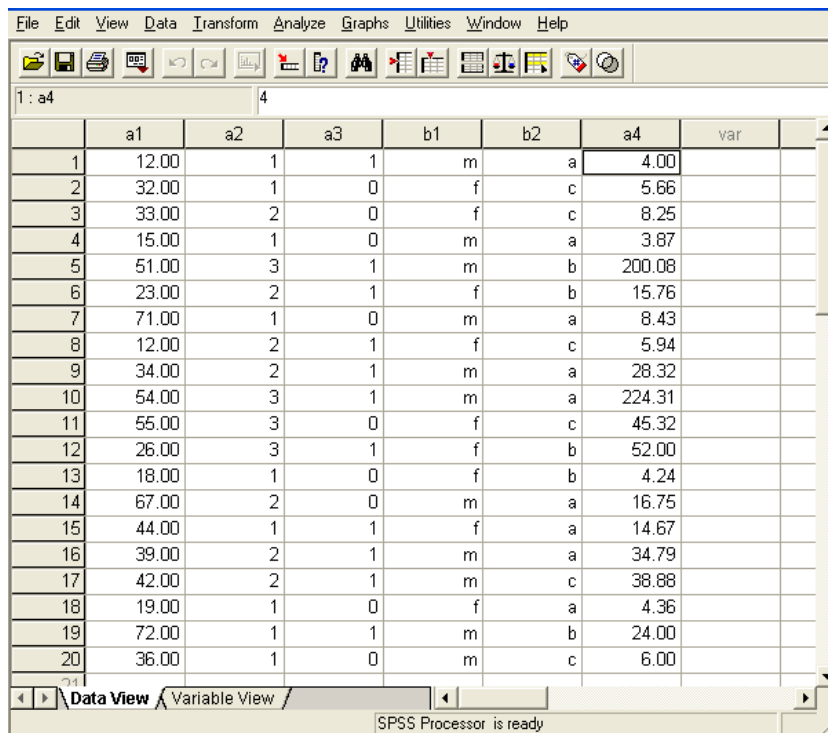
:

Target Variable

.

.

(**OK**)

a4

a4

•   .

:

• **ABS:**   .

• **EXP:**   .

• **LN:**   .

• **LG10:**   .

• **SQRT:**   .

• **MAX:**   .

• **MEAN:**   .

• **MIN:**   .

• **NVALID:**   .

• **SD:**   .

• **SUM:**   .

• **VARIANCE:**   .

SPSS

:

$$a5 = EXP(a1 + \ln a2 - a3) + MAX(a1)$$

EXP   ( )   **2.718282**

.   **e**

.

:

$$a5 = e^{\left(a1 + \log_e\left(a2\right) - a3\right)} + \max\left(a1\right)$$

Ln

.

SPSS   **OK**

a5

.

.

IF   **SPSS**

IF   **.EXCEL**

.

.   **IF**

.

Include all cases.

)

IF(

.

IF   **a4**

$$a4 = \left(a1**\left(\left(a2+a3\right)/2\right)\right)/\left(a2**2+\left(a3+a2*a3\right)\right)$$

IF

a1   **40**

IF   **a4.**

IF   **compute**

.

Compute Variable: If Cases dialog box showing a1, a2, a3, b1, b2 with "Include if case satisfies condition: a1 > 40"

（Continue）

OK **a4**

.

a4

. **a4**
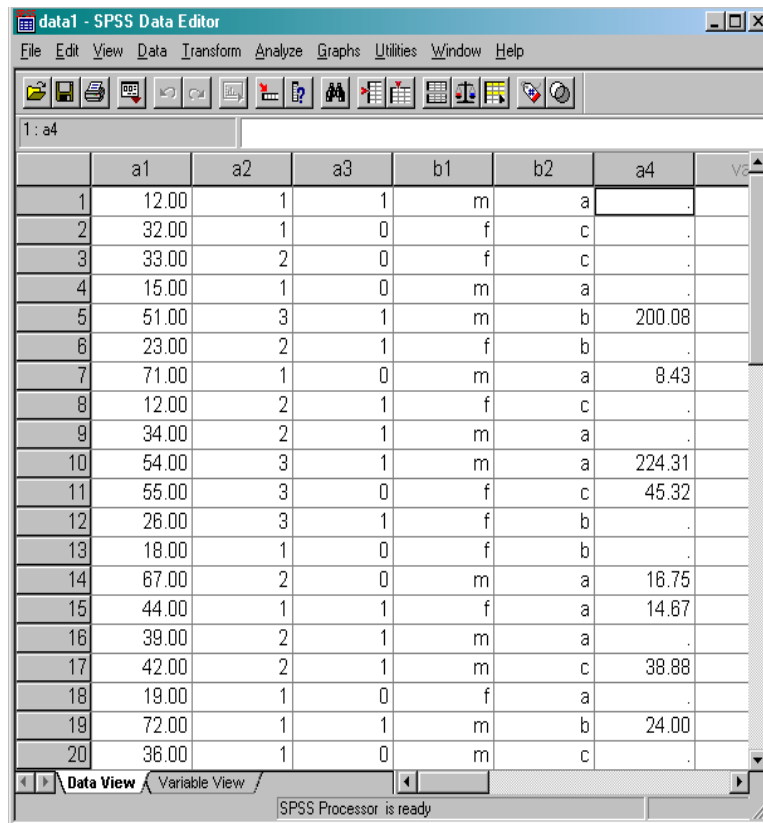
❖ **تحويل المتغيرات Transformation**

SPSS **(Transform)**

(compute)

(Transform)

(Transform) SPSS

▪ **دالة العد COUNT**

SPSS **(count)**

(Transform)

(   )

(   )

(5   )

Transform   count   count

:

.   )
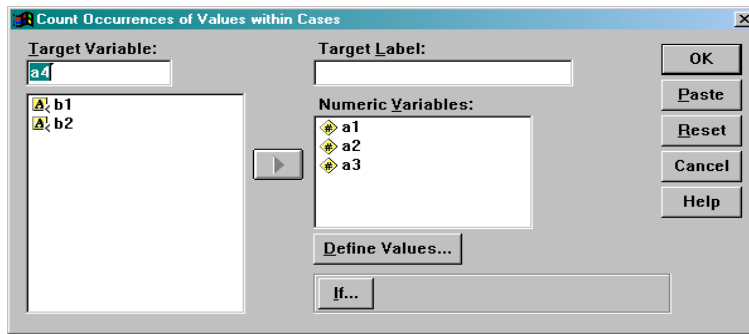
(a4   (Target

Variable)

.(Numeric   Variables)

Define Value…

.

count

‏.

‏.

‏.

‏a1‏   **a2**   **a3**

30   **.a4**

‏.   ‏.
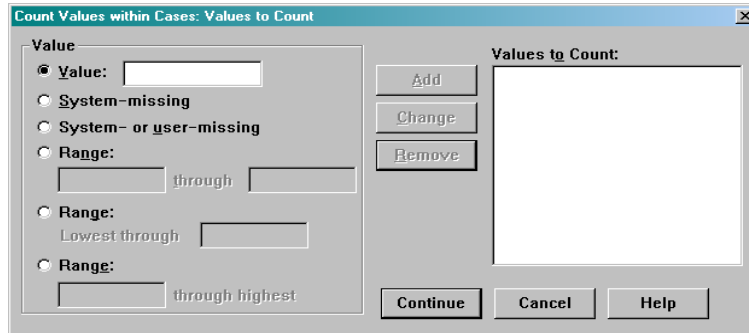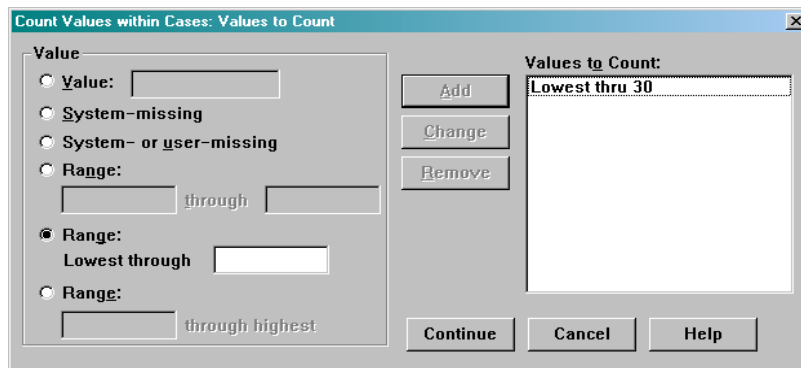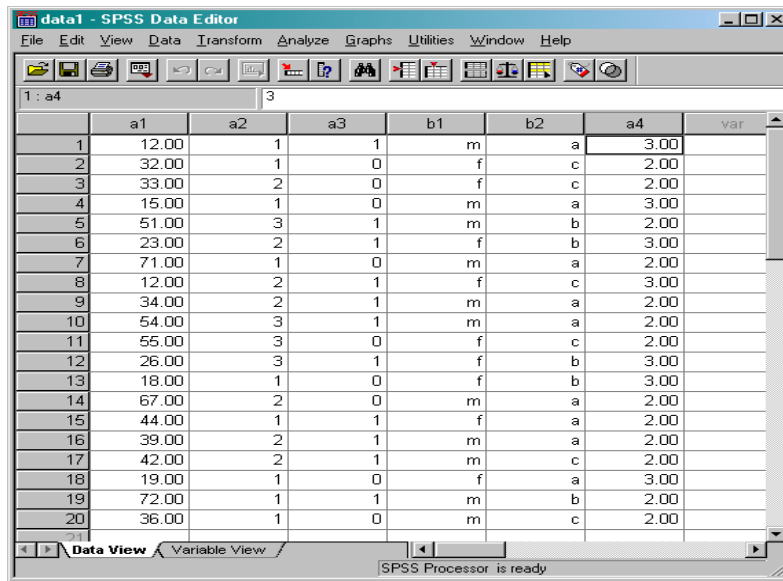
‏(**Value**)

‏(**Values to Count**)   ‏.

(**Continue**)

:

▪ **إعادة الترميز RECODE**

(**Recode**)

SPSS .

Transform recode .

(**Into Same Variables**)

. (**Into Different variables**)

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(Discreet)

.

(continuous) .

.

a12

a1

:

$$a12 = \begin{cases} 1 & \forall & a1 \le 15 \\ 2 & \forall & 15 < a1 \le 30 \\ 3 & \forall & 30 < a1 \le 45 \\ 4 & \forall & 45 < a1 \le 60 \\ 5 & \forall & 60 < a1 \end{cases}$$
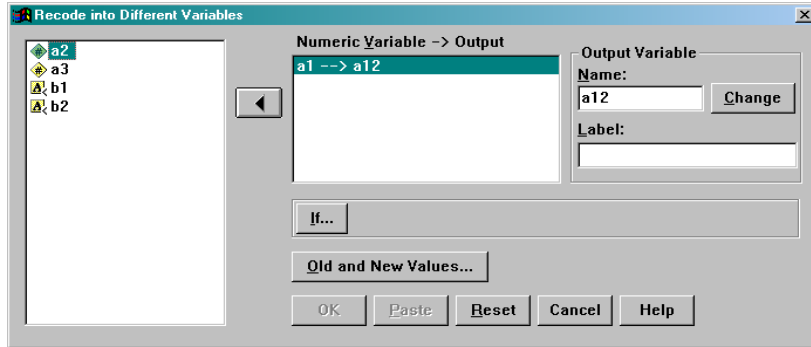
$\forall$ " " .

Into Different variables record

a1

a12 change

:

Old and New (Values…)

(Old Value)   .

.(New Value)

a1

:

(OK) **(continue)**

:

.Output variables are strings

$$
a12 = \begin{cases} A & \forall & a1 \le 15 \\ B & \forall & 15 < a1 \le 30 \\ C & \forall & 30 < a1 \le 45 \\ D & \forall & 45 < a1 \le 60 \\ E & \forall & 60 < a1 \end{cases}
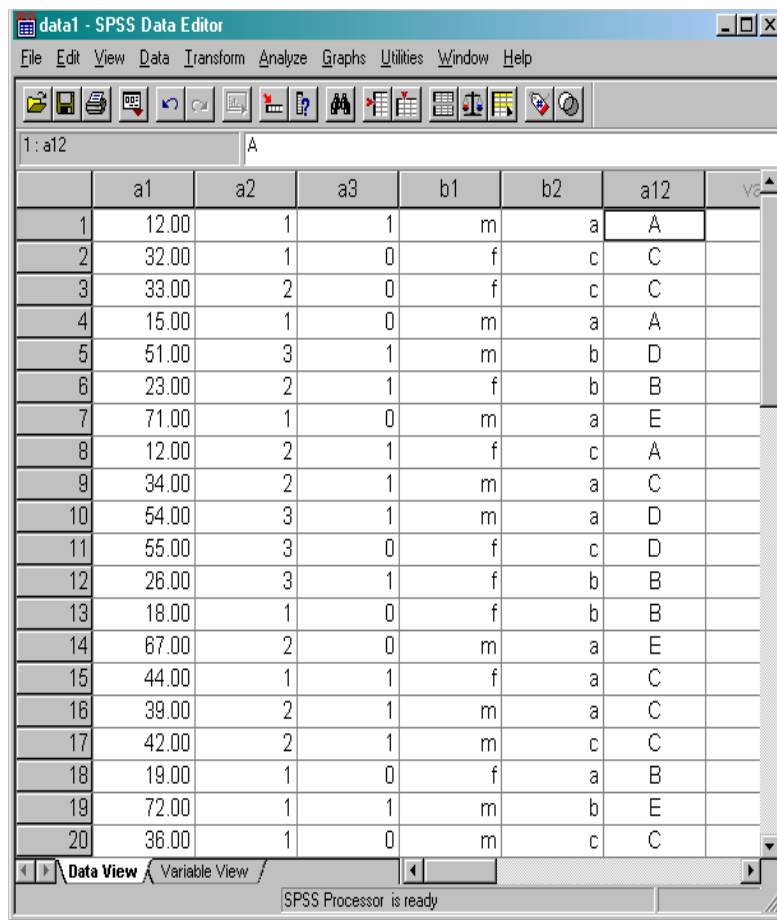$$

.

:

(OK)   (Continue)

(Recode into different variable)

a12

- **تصنيف المتغيرات Categorize Variables**

SPSS

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(Categorize Variables)   Transform

.   .
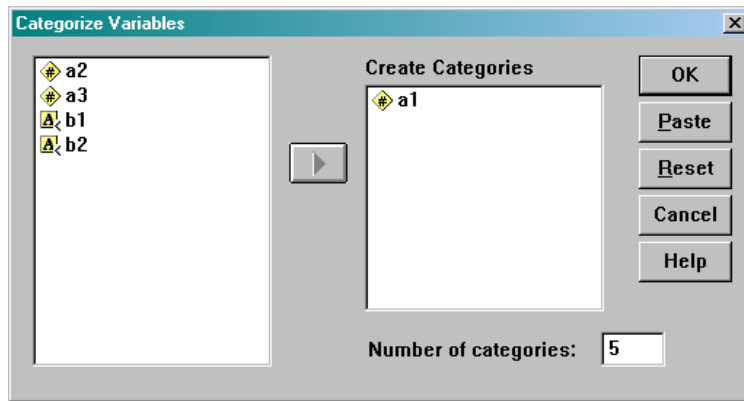
(categories)

(Number of categories)   .

SPSS   1 2 3 ..

.

:

na1

(**Variable View**)   .

(**recode**)   **categorize variables**

.

categorize variable

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❖ **الجداول المحورية Crosstabs**

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(   )

(   ).

(   )

4×2

4×2.

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SPSS

Analyze (   ) **Descriptive Statistics**

(   ) **Crosstabs**   (   )

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Rows.

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SPSS

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b2   **a2**

(OK)

:

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SPSS 10.0 for Windows ملف

3×3.

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SPSS

Cells ( ) .

:

(Counts)   .

(

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324

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