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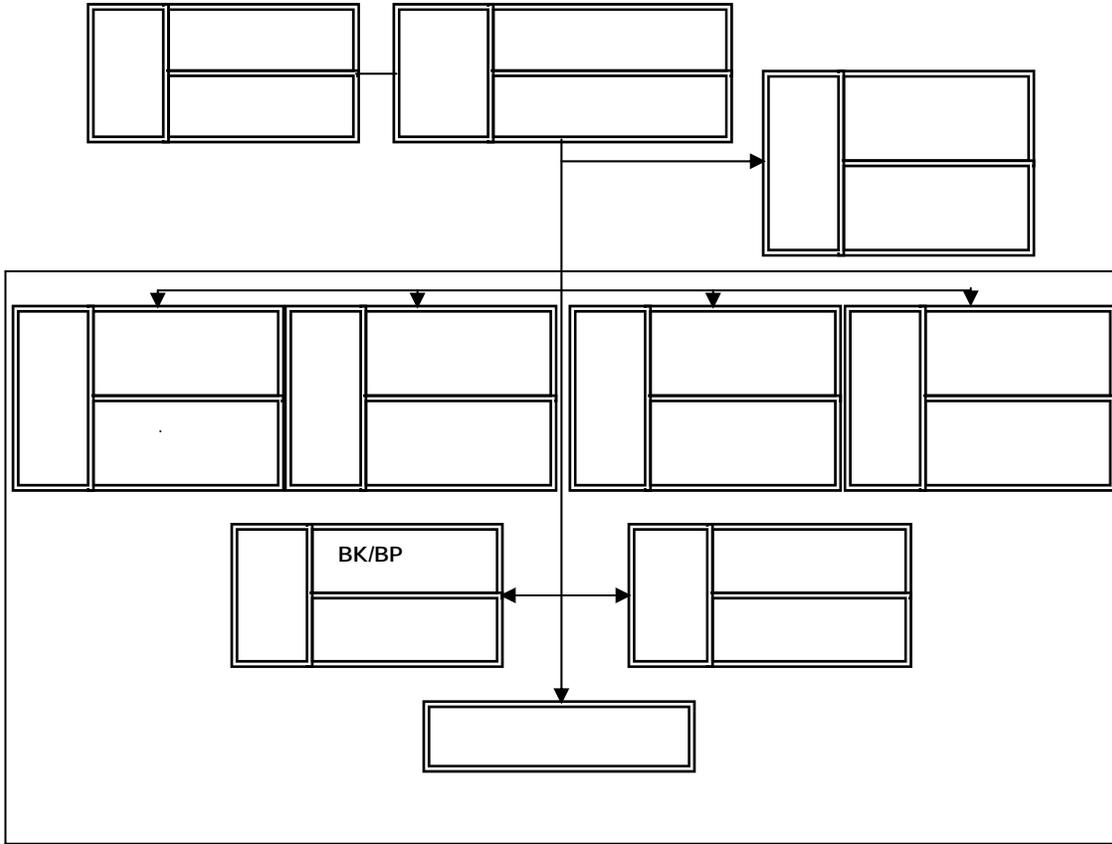
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320	168	152		
310	171	139		
288	167	121		
918	506	412		

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$$P = \frac{(F)}{(N)} X \%100$$

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	10	9	8	7	6	5	4	3	2	1		
30	3	3	3	3	3	3	3	3	3	3		
36	4	4	4	4	3	4	3	3	3	4		
34	4	4	4	3	3	4	3	3	3	3		
34	4	4	3	4	3	4	3	4	4	4		
35	4	4	4	4	3	3	3	4	3	3		

37	4	3	3	4	4	4	3	4	4	4		
34	4	4	3	4	2	3	2	4	4	4		
33	4	4	4	4	2	3	2	3	3	4		
30	3	3	3	3	2	3	4	3	3	3		
38	4	4	4	4	3	3	4	4	4	4		
30	3	3	3	3	2	3	3	4	3	3		
28	3	3	3	3	2	3	3	2	3	3		
35	4	4	4	4	3	3	3	3	3	4		
36	3	4	4	4	4	3	3	4	3	4		
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31	4	3	3	3	3	3	3	3	3	3		
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34	4	3	4	3	3	3	4	3	3	4		
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34	3	3	3	3	3	4	3	4	4	4		
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35	4	3	3	4	3	4	3	4	3	4		

36	3	4	4	4	4	3	3	4	3	4		
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38	4	4	4	4	3	3	4	4	4	4		
31	4	3	3	3	3	3	3	3	3	3		
31	3	3	3	3	3	3	4	3	3	3		

() :

%	N	F		
67.5	40			
32.5				
-		-		
-		-		
100				

. % 5 32

. % 5 67

(9) :

" "

%	N	F		
25	40	10		2
75		30		
-		-		
-		-		
100	40	40		

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% 75

% 25

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(10) :

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%	N	F		
47 5	40	19		3
47 5		19		
5		2		
-		-		

100	40	40		
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%5 47

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% 5

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(11) :

" "

%	N	F		
20	40	8		4
75		30		
5		2		
-		-		
100	40	40		

%20

" "

%5

% 75

(12)

%	N	F		
25	40	10		5
70		28		

5		2		
-		-		
100	40	40		

% 70

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(13)

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%	N	F		
32 5	40	13		6
50		20		
17 5		7		
-		-		
100	40	40		

" "

5 32

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(14)

" "

%	N	F		
37 5	40	15		7
62 5		25		
-		-		
-		-		
100	40	40		

" "

% 5 37

. % 5 62

(15)

%	N	F		
47 5	40	19		8
50		20		
2 5		1		
-		-		

100	25	25		
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5 2 . % 50 % 5 47 %

(16)

" "

%	N	F		
30	40	12		9
70		28		
-		-		
-		-		
100	40	40		

" "

% 70 % 30

(17)

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%	N	F		
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65	40	26		10
35		14		
-		-		
-		-		
100	40	40		

" "

% 35

% 65

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(18)

-	-	5 32	5 67	1
-	-	75	25	2
-	5	5 47	5 47	3
-	5	75	20	4

-	5	70	25	5
-	5 17	50	5 32	6
-	-	5 62	5 37	7
-	5 2	50	5 47	8
-	-	70	30	9
-	-	35	65	10
-	35	5 567	5 397	
-	5 3	75 56	75 39	(mean)

% 56.75

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t (Paired "t" test)

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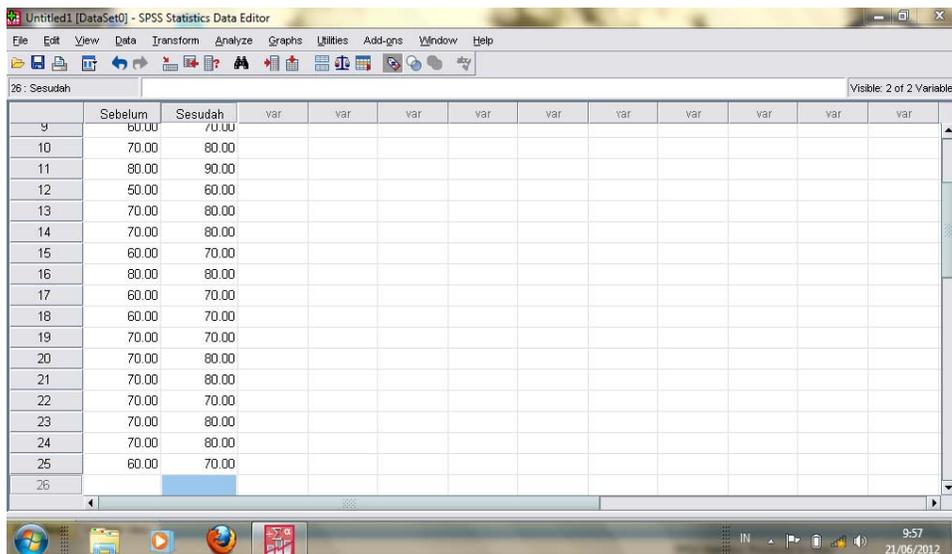
$$t = \frac{(\bar{X} - \bar{Y})}{\sqrt{\frac{n(n-1)}{\sum_{i=1}^n (\hat{X}_i - \hat{Y}_i)^2}}}$$

:

, SPSS

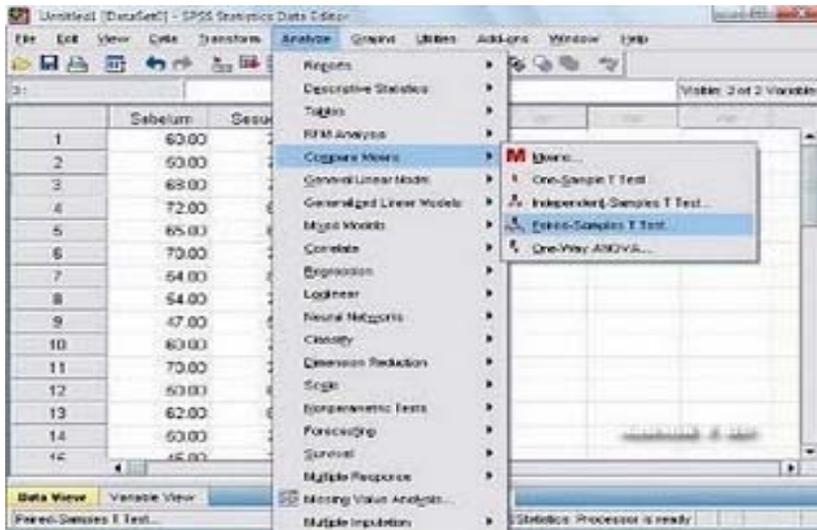
."data view"

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“Data View” (1)

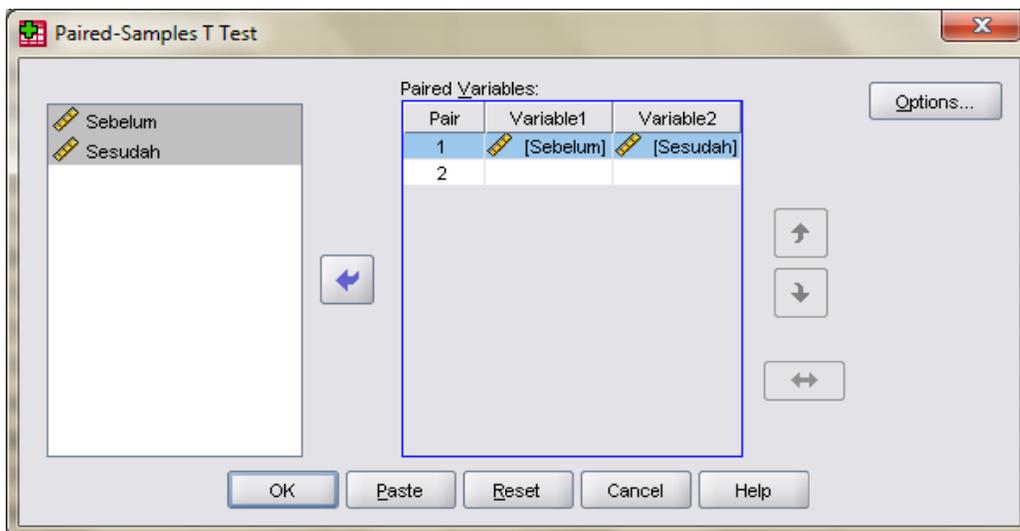
Analyze – Compare Means – Paired Samples T test .2



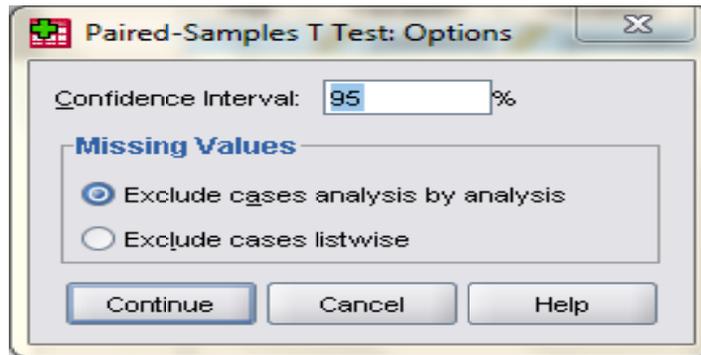
“Paired Samples T test” (2)

Paired, Paired-T test (3)

OK - continue, Variables



“Paired Variable” (3)



“Paired Sample T test: Option “ (4)

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(21)

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 sebelum tes	6.18	40	.958	.151
sesudah tes	7.70	40	.687	.109

(22)

Paired Samples Correlations

	N	Correlation	Sig.
Pair sebelum tes & sesudah tes 1	40	.472	.002

: SPSS

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(23)

Paired Samples Test

		Paired Differences				t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower				Upper
Pair 1	sebelum tes - sesudah tes	-1.525	.877	.139	-1.805	-1.245	-11.002	39	.000

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Paired Samples Test

$$11,002 = (T \text{ test}) t \quad -$$

$$2,021 = \quad \quad \quad t \text{ table} \quad -$$

$$0,000 = \quad \quad \quad \text{Sig. (2-tailed)} \quad -$$

$$t \text{ table} \quad (T \text{ test}) t$$

$$(Ho) \quad , (11,002 > 2,021)$$

$$\text{Sig. (2-tailed)} \quad . \quad (Ha)$$

$$(Ho) \quad , (0,00 < 0,55) \quad 0,55$$

$$\quad . \quad (Ha)$$

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