

```

SAVE OUTFILE='c:\2x2within.sav' /COMPRESSED.
UNIANOVA
  dv_hrtbt BY iv1_td iv2_nl subject
  /RANDOM = subject
  /METHOD = SSTYPE(3)
  /INTERCEPT = INCLUDE
  /PLOT = PROFILE( iv1_td*subject iv2_nl*subject iv1_td*iv2_nl )
  /EMMEANS = TABLES(iv1_td)
  /EMMEANS = TABLES(iv2_nl)
  /EMMEANS = TABLES(iv1_td*iv2_nl)
  /PRINT = DESCRIPTIVE HOMOGENEITY
  /PLOT = SPREADLEVEL
  /CRITERIA = ALPHA(.05)
  /DESIGN = iv1_td iv2_nl subject iv1_td*iv2_nl iv1_td*subject iv2_nl*subject
  iv1_td*iv2_nl*subject .

```

## Univariate Analysis of Variance (Partial)

### Between-Subjects Factors

	Value Label	N
IV1_TD	1.00	20
	2.00	20
IV2_NL	1.00	20
	2.00	20
SUBJECT	1.00	4
	2.00	4
	3.00	4
	4.00	4
	5.00	4
	6.00	4
	7.00	4
	8.00	4
	9.00	4
	10.00	4

## Tests of Between-Subjects Effects

Dependent Variable: DV\_HRTBT

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	257602.500	1	257602.500	4501.791	.000
	Error	515.000	9	57.222 <sup>a</sup>		
IV1_TD	Hypothesis	16.900	1	16.900	17.686	.002
	Error	8.600	9	.956 <sup>b</sup>		
IV2_NL	Hypothesis	.100	1	.100	.044	.838
	Error	20.400	9	2.267 <sup>c</sup>		
SUBJECT	Hypothesis	515.000	9	57.222	24.065	.000
	Error	17.888	7.523	2.378 <sup>d</sup>		
IV1_TD * IV2_NL	Hypothesis	.900	1	.900	1.066	.329
	Error	7.600	9	.844 <sup>e</sup>		
IV1_TD * SUBJECT	Hypothesis	8.600	9	.956	1.132	.428
	Error	7.600	9	.844 <sup>e</sup>		
IV2_NL * SUBJECT	Hypothesis	20.400	9	2.267	2.684	.079
	Error	7.600	9	.844 <sup>e</sup>		
IV1_TD * IV2_NL * SUBJECT	Hypothesis	7.600	9	.844	.	.
	Error	.000	0	.	f	.

a. MS(SUBJECT)

b. MS(IV1\_TD \* SUBJECT)

c. MS(IV2\_NL \* SUBJECT)

d. MS(IV1\_TD \* SUBJECT) + MS(IV2\_NL \* SUBJECT) - MS(IV1\_TD \* IV2\_NL \* SUBJECT)

e. MS(IV1\_TD \* IV2\_NL \* SUBJECT)

f. MS(Error)

## Estimated Marginal Means

### 1. IV1\_TD

Dependent Variable: DV\_HRTBT

IV1_TD	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1.00	79.600	.	.	.
2.00	80.900	.	.	.

### 2. IV2\_NL

Dependent Variable: DV\_HRTBT

IV2_NL	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1.00	80.200	.	.	.
2.00	80.300	.	.	.

### 3. IV1\_TD \* IV2\_NL

Dependent Variable: DV\_HRTBT

IV1_TD	IV2_NL	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1.00	1.00	79.700	.	.	.
	2.00	79.500	.	.	.
2.00	1.00	80.700	.	.	.
	2.00	81.100	.	.	.

## Profile Plots

Estimated Marginal Means of DV\_HRTBT

