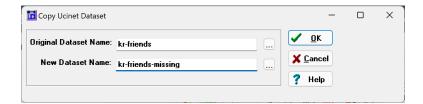
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Practice 5.5

This document uses the kr-friends dataset created in <u>Practice 5.4</u>. We are going to remove some rows to simulate missing data, then replace the missing data with imputed values.

Creating missing values

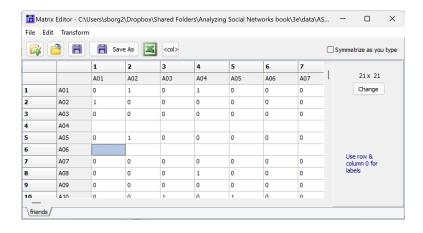
We begin by creating a copy of kr-friends to be called kr-friends-missing. Use File| Copy and fill out the box like this:



Then open kr-friends-missing in the matrix editor (3rd button on the left on the toolbar).



Now delete all values in row A04 and A06 as shown below, and save.



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Imputing missing values

At this point kr-friends-missing contains two rows of missing values. To impute their values, we can use Transform|Znidarsic et al Imputation of Missing Values, filling out the dialog window as follows:



As explained in the Help, the REMO option both reconstructs the missing rows from their corresponding columns, but where that provides no help, the program also selects a modal incoming value. For example, if most people have a tie to a given actor, in the absence of other information, the program will assume that A04 and A06 also have a tie to that actor.

As you can see, in the result matrix, there are now values for the rows corresponding to A04 and A06.

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10 A10 0 0 1 0 1 0 0 1 1 0 1 0 0 0 1 0 0 0 1 0 11 A11 1 1 1 1 0 0 1 1 0 1 1 0 1 0 1 1 1 0 0 12 A12 1 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 13 A13 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 14 A14 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 15 A15 1 0 1 0 1 1 0 0 1 0 1 0 0 1 0 0 0 1 0 0 16 A16 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 18 A18 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 19 A19 1 1 1 0 1 0 0 0 0 0 1 1 0 1 1 0 0 0 20 A20 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 21 A21 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 0 0