

Practical Data Cleaning Cheat-Sheet

19 Tips to Make Your Data Cleaning Easy

1 - Record Data on Paper First	This is where you get to design how you're going to collect and store your data, which gets you to thinking in detail about your study.
2 -Transfer Your Data to a Spreadsheet	If you'd have entered your data directly into a spreadsheet without having a paper copy, mistakes made would be permanent.
3- Enter Your Data on a Single Worksheet	Enter your data in a single worksheet. The amount of data you're going to collect is unlikely to be a problem for Excel, and if it is, you should probably be collecting your data by more automated means.
4- Use a Unique ID Column	It's absolutely crucial that you have the ability to restore the original order, and for this we start by using column A as a Unique ID column.
5- One Column per Variable	Don't enter more than one piece of information into a single cell.
6- Row 1 is the Variable Name	The standard for pretty much all statistics programs is for the first row to be reserved for the name of the variable, so you should follow this too.
7- Every Cell Should Have Something In It	If you don't have any data for a particular cell, don't just leave it empty. There's no information in a blank cell.
8- Keep Great Notes	When you put codes in your cells you'll need to keep notes about what they mean. This is perhaps the biggest and best tip I can give you – KEEP GREAT NOTES!!!
9- Be consistent	A lot of the problems with data cleaning are caused because the data is not entered correctly or <i>consistently</i> in the first place.
10- Don't Guess	Data accuracy is really important, so when entering your data don't guess, approximate, round up or down – just enter the value exactly as registered on paper.

©Chi2Innovations 2016 Page | 1



11- Zero is a Real Number	Zeros are real numbers and will be included in any calculations you make on your data, so don't use the number zero as a code to mean 'No data'.
12- Make a Copy	Make a copy of your dataset so if you make any mistakes you'll need to be able to check back and make corrections.
13- Clean Your Data in a Separate Worksheet	Cleaning data is a messy process and you WILL make mistakes so do it in a separate worksheet!
14- Report Errors Back to the Original Source	Next time you have to analyse some more data from the same source you'll have a lot less cleaning to do.
15- Use Excel Functions to do the Hard Work	Entry errors happened because someone entered data manually, so why use the same method that got you into trouble to get you out of it?
16- Use Excel Formulae to do the Even Harder Work	I guarantee you won't regret the time investment made to learn the Excel formulae you need.
17- Keep a Code Sheet	For each variable you should list the codes that you've used and explain what they mean.
18- Identify Your Data Types	Take a little time to decide which of your variables are Ratio, and which are Interval, Ordinal or Nominal.
19- Check That Your Data are Sensible	Real life follows rules, and your data must too.

©Chi2Innovations 2016 Page | 2