Cheatography

Intermediate Spreadsheets Cheat Sheet by Ivan Patel (patelivan) via cheatography.com/135316/cs/28038/

Working with numbers

to a particular power

EXP() - Raises Euler's number

FLOOR(cell, 0.01) - Rounds

down to the nearest whole

CEILING(cell, 0.01) - Rounds

RAND() - Generates random

a continuous uniform distri-

RANDBETWEEN(limit 1,

limit 2) - Generates random

integers between two limits from

a discrete uniform distribution.

NORMINV(RAND(), 0, 1) -

Generates random normal

*INV(RAND()) - Generates

distributions. Look at the

documentation for more.

Control Flow

TRUE.

TRUE.

random numbers from other

NOT() - NOT(TRUE) is FALSE.

AND() - TRUE if all inputs are

OR() - TRUE if any input is

numbers from a normal distri-

bution with mean 0 and std of 1.

numbers between 0 and 1 from

up, in this case to the next

down, in this case, to the next

lowest hundredth. The default is

LOG10()

SQRT()

number.

hundredth.

Simulation

bution.

PI()

LN()

Knowing what's in a cell

ISTEXT() ISNUMBER() ISLOGICAL() ISURL() ISFORMULA() ISDATE() ISBLANK() - Can be used along with FILTER() to find all observations with a blank cell in a

An example:

particular column.

After finding out which cells in the Athlete column are blank, you can use FILTER() on the whole dataset conditioned on whether or not the a cell in Athlete is blank. This will return all observations where the Athlete cell is blank.

Converting to a different type

N() - Convert a column's values to numbers.

TO_PERCENT()

TO_DOLLARS() CONVERT(value, starting_unit, ending_unit) - To change the units of a number; from seconds

units of a number; from seconds to mins, or m/s to mph. Check the documentation to use the right unit abbreviation.

Control Flow (cont)

IF() - You can use it in conjunction with NOT(), AND(), and OR().

IFS(condition_1, "value if condition 1 is TRUE") - Test as many conditions as you like by taking pairs of arguments. If no condition is met, it will return N/A.

SWITCH(condition, category1, value1, category2, value2)

IF() or IFS() are used to convert logical values into categorical values. SWITCH() is useful for transforming categorical variables.

Blanks, Missing Values and Errors

NA() or IF(ISBLANK(cell), NA(), cell).

ISERROR().

ISERR() - Doesn't consider missing values to be errors.

#VALUE! - Nonsense data in a calculation.

#REF! - Reference cell that has been deleted.

#NUM! - Numbers being out of range.

#ERROR! - Syntax problem in a formula.

COUNTBLANK() - Count the number of blank cells in a range.

If you try to do any calculations with blanks, you'll get the wrong answer. Thus, just convert blank values to N/A values. Blanks are not errors but missing is.

Positional Matching

OFFSET() - Retrieves the values in cells offset from the current location by a certain number of rows and columns. It takes two arguments: the number of rows down to move from the current location, and the number of columns to move right. Positive column and row numbers mean it will more right and down respectively.

In OFFSET(), the height and width arguments return a range of cells.

Lookups & Matching

VLOOKUP(value you want to match, range of the dataset we want to find values in as absolute addresses, the number of the column that contains the values to be merged in, is_the-_lookup_column_sorted?)

SORT(range of the data (not including the header row), column to sort by (numeric), TRUE to sort in ascending order)

VLOOKUP() allow you to merge or left join two datasets together. Thus, both datasets must have an ID column with some common values.

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