

# Release notes for July 2018 StatCrunch updates

## Enhancements:

- The StatCrunch database and server were migrated into a newer system to improve long-term stability.
- The **Data sort** ability was upgraded to allow for the sorting based on multiple sort criteria. See page 2 for details
- A new **Custom simulation** feature was added that allows for simulation based on a custom distribution. See page 3 for details.

## Minor fixes/enhancements:

- Various textbook data sets were updated in MyStatLab to align with their current edition .
- Miscellaneous bugs with StatCrunch and its webpages were corrected.

# Data Sort Upgrade

StatCrunch has always offered the ability to sort data using the *Data > Sort* feature, but previously the sorting was limited to one sort by column. Additionally, the sorting would not override the existing columns. This feature was upgraded to allow for more than one sort by column criteria while giving the option to replace the data in the existing columns. The sort will happen in descending precedence with the top sort by column being sorted first. Any duplicates of the higher sort by column will be put into the specified order for the lower sort by column. Below is an example using the [Movie Budgets and Box Office Earnings](#) featured data set. This example will sort by year (descending), month (ascending) and day (ascending).

Before:

StatCrunch **Movie Budgets and Box Office Earnings (Updated Fall 2016)**

Row	Movie	Month	Day	Release Year	Budget(\$M)	Domestic Gr	Worldwide C	var8	var9	var10	var11	var12
1	Avatar	Dec	18									
2	Star Wars E	Dec	18									
3	Pirates of th	May	24									
4	Spectre	Nov	6									
5	The Dark Kn	Jul	20									
6	The Lone Ra	Jul	2									
7	John Carter	Mar	9									
8	Tangled	Nov	24									
9	Spider-Man	May	4									
10	Avengers: A	May	1									
11	Captain Ame	May	6									
12	Batman v Su	Mar	25									
13	The Hobbit:	Dec	14									
14	Harry Potter	Jul	15									
15	The Hobbit:	Dec	13									
16	The Hobbit:	Dec	17									
17	Pirates of th	May	20									
18	Superman R	Jun	28									
19	Quantum of	Nov	14									
20	The Avenger	May	4									
21	Pirates of th	Jul	7									
22	Man of Steel	Jun	14									
23	The Chroni	May	16									
24	The Amazing	Jul	3									
25	Jurassic Wor	Jun	12									

**Sort Columns**

Columns to sort:  
 All columns  
 Select columns:

Sort criteria:  
Sort by: Release Year [Descending]  
Sort by: Month [Ascending]  
Sort by: Day [Ascending]

Options:  
 Replace current column(s)  
 Create new column(s)  
 Open in a new data table

After:

StatCrunch **Movie Budgets and Box Office Earnings (Updated Fall 2016)**

Row	Movie	Month	Day	Release Year	Budget(\$M)	Domestic Gr	Worldwide C	var8	var9	var10	var11	var12
1	Adulterers	Jan	5	2016	0.75	0	0					
2	The Masked	Jan	8	2016	3.5	0.182695	0.182695					
3	The Forest	Jan	8	2016	10	26.594261	39.803818					
4	Norm of the	Jan	15	2016	18	17.062499	27.426111					
5	Ride Along 2	Jan	15	2016	40	90.862685	124.24615					
6	13 Hours: TI	Jan	15	2016	50	52.853219	68.053219					
7	Sharkskin	Jan	19	2016	2.1	0	0					
8	Eden	Jan	19	2016	2.3	0	0					
9	The Boy	Jan	22	2016	10	35.819556	68.220952					
10	Dirty Grand	Jan	22	2016	11.5	35.593113	99.930262					
11	Yip Man 3	Jan	22	2016	36	2.679437	156.8352					
12	The 5th Wav	Jan	22	2016	38	34.912982	110.67864					
13	Monster Hur	Jan	22	2016	56	0.032766	386.09606					
14	Fifty Shades	Jan	29	2016	5	11.68694	20.765352					
15	Jane Got a C	Jan	29	2016	25	1.513793	2.962177					
16	The Finest H	Jan	29	2016	70	27.569558	48.197252					
17	Kung Fu Par	Jan	29	2016	140	143.52862	518.62862					
18	The Rise of	Feb	2	2016	2.5	0	0					
19	Misconduct	Feb	5	2016	11	0	2.086974					
20	Hail, Caesar	Feb	5	2016	22	30.080225	64.063475					
21	Pride and Pr	Feb	5	2016	28	10.907291	16.311335					
22	Xi You Ji zhi	Feb	5	2016	60	0.709982	194.0585					
23	How to be S	Feb	12	2016	37	46.843513	99.595932					
24	Zoolander 2	Feb	12	2016	50	28.848693	55.348693					
25	Deadpool	Feb	12	2016	58	363.07071	783.77071					

**Options**

The current columns were sorted by the following criteria:  
#1) Release Year descending  
#2) Month ascending  
#3) Day ascending

