

Changing the Calculation of Values

PIVOT TABLES IN SPREADSHEETS



Frank Sumanski

Founder, SpreadsheetAllstars.com

Film Dataset

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All changes saved in Drive

	A	B	C	D	E	F	G	H	I
1	Title	Release Year	Duration	Country	Language	Certification	Gross	Budget	
2	3	2010	119	Germany	German	Unrated	59,774		
3	42	2013	128	USA	English	PG-13	95,001,343	40,000,000	
4	1911	2011	121	China	Mandarin	R	127,437	18,000,000	
5	1982	2013	90	USA	English	R		1,000,000	
6	#Horror	2015	101	USA	English	Not Rated		1,500,000	
7	10 Cloverfield Lane	2016	104	USA	English	PG-13	71,897,215	15,000,000	
8	10 Days in a Madhouse	2015	111	USA	English	R	14,616	12,000,000	
9	12 Years a Slave	2013	134	USA	English	R	56,667,870	20,000,000	
10	127 Hours	2010	94	USA	English	R	18,329,466	18,000,000	
11	13 Hours	2016	144	USA	English	R	52,822,418	50,000,000	
12	2 Guns	2013	109	USA	English	R	75,573,300	61,000,000	
13	20 Feet from Stardom	2013	91	USA	English	PG-13	4,946,250	1,000,000	
14	2016: Obama's America	2012	87	USA	English	PG	33,349,949	2,500,000	
15	21 & Over	2013	93	USA	English	R	25,675,765	13,000,000	
16	21 Jump Street	2012	109	USA	English	R	138,447,667	42,000,000	
17	22 Jump Street	2014	112	USA	English	R	191,616,238	50,000,000	

Sheet1

Explore

Film Dataset

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fx Certification

	A	B	C	D	E	F	G
1	Certification	SUM of Gross					
2		14,644,669					
3	G	1,540,370,967					
4	NC-17	4,000,304					
5	Not Rated	15,232,585					
6	PG	13,267,829,501					
7	PG-13	32,065,822,644					
8	R	15,409,503,885					
9	Unrated	1,009,472					
10	Grand Total	62,318,414,027					
11							
12							
13							
14							
15							
16							
17							
18							

Pivot table editor

Sheet1!A1:H1441

Suggested

Rows

Certification

OrderAscendingSort byCertificationShow totals

Columns

Values

Gross

Film Dataset

File Edit View Insert Format Data Tools Add-ons Help

100% \$ % .0 .00 123 Arial 10

SUM of Gross

Release Year

2010

2011

2012

2013

2014

2015

2016

Grand Total

Certification

G

PG

PG-13

Grand Total

441,145,903

2,628,121,864

3,884,283,575

6,953,551,342

567,861,302

1,636,454,917

4,435,487,714

6,639,803,933

1,064,277

1,842,472,036

5,306,419,989

7,149,956,302

268,488,329

1,902,068,228

5,012,665,185

7,183,221,742

131,636,259

2,084,229,860

5,072,143,898

7,288,010,017

130,174,897

2,025,477,764

5,558,593,985

7,714,246,646

1,149,004,832

2,796,228,298

3,945,233,130

1,540,370,967

13,267,829,501

32,065,822,644

46,874,023,112

Pivot table editor

OrderAscending

Sort byRelease Year

Show totals

Columns

Certification

OrderAscending

Sort byCertification

Show totals

Values

Gross

Summarize bySUM

Show asDefault

Sheet1

Pivot Table 2

	A	B	C	D	E	F	G
1	SUM of Gross	Certification					
2	Release Year	G	PG	PG-13	Grand Total		
3	2010	441,145,903	2,628,121,864	3,884,283,575	6,953,551,342		
4	2011	567,861,302	1,636,454,917	4,435,487,714	6,639,803,933		
5	2012	1,064,277	1,842,472,036	5,306,419,989	7,149,956,302		
6	2013	268,488,329	1,902,068,228	5,012,665,185	7,183,221,742		
7	2014	131,636,259	2,084,229,860	5,072,143,898	7,288,010,017		
8	2015	130,174,897	2,025,477,764	5,558,593,985	7,714,246,646		
9	2016		1,149,004,832	2,796,228,298	3,945,233,130		
10	Grand Total	1,540,370,967	13,267,829,501	32,065,822,644	46,874,023,112		
11							
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17							
18							

Film Dataset

File Edit View Insert Format Data Tools Add-ons Help

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fx

	A	B	C	D	E	F	G
1	COUNT of Gross Certification						
2	Release Year	G	PG	PG-13	Grand Total		
3	2010	2	35	67	104		
4	2011	5	25	74	104		
5	2012	1	24	65	90		
6	2013	1	23	64	88		
7	2014	2	22	63	87		
8	2015	1	18	54	73		
9	2016		8	36	44		
10	Grand Total	12	155	423	590		
11							
12							
13							
14							
15							
16							
17							
18							

Pivot table editor

Order: Ascending

Sort by: Release Year

☒ Show totals

Columns

Certification

Order: Ascending

Sort by: Certification

☒ Show totals

Values

Gross

Summarize by: COUNT

Show as: Default

Film Dataset

File Edit View Insert Format Data Tools Add-ons Help

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Release Year

	A	B	C	D	E	F	G
1	Release Year	COUNTUNIQUE of Title					
2	2010	114					
3	2011	110					
4	2012	99					
5	2013	95					
6	2014	103					
7	2015	83					
8	2016	52					
9	Grand Total	656					
10							
11							
12							
13							
14							
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16							
17							
18							

Sheet1 Pivot Table 2

Pivot table editor

Ascending Release Year

☒ Show totals

Columns

ADD

Values

ADD

Title

Summarize by

COUNTUNIQ...

Show as

Default

Filters

ADD

Certification

Status

Showing 3 items

Other calculation options for values

- Counting Calculations
 - `COUNT` : Counts numerical values only
 - `COUNTA` : Counts all non-blank values
 - `COUNTUNIQUE` : Counts all non-blank values (excluding duplicates)
- Ranking Calculations
 - `AVERAGE` , `MAX` , `MIN` , `MEDIAN`
- Mathematical Calculations
 - `PRODUCT`
- Statistical Calculations
 - `STANDARD DEVIATION` , `VARIANCE`

Let's practice!

PIVOT TABLES IN SPREADSHEETS

Calculated Fields

PIVOT TABLES IN SPREADSHEETS



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fx Certification

	A	B	C	D	E	F	G
1	Certification	SUM of Gross	SUM of Budget				
2		14,644,669	1,330,907,898				
3	G	1,540,370,967	1,091,450,000				
4	NC-17	4,000,304	6,500,000				
5	Not Rated	15,232,585	206,406,600				
6	PG	13,267,829,501	11,158,120,000				
7	PG-13	32,065,822,644	25,720,520,000				
8	R	15,409,503,885	11,150,253,942				
9	Unrated	1,009,472	19,420,000				
10	Grand Total	62,318,414,027	50,683,578,440				
11							
12							
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15							
16							
17							
18							

Pivot table editor

☒ Show totals

Columns [ADD](#)

Values as: Columns [ADD](#)

Gross

Summarize by SUM Show as Default

Budget

Summarize by SUM Show as Default

Filters [ADD](#)

Sheet1 Pivot Table 1

Film Dataset

File Edit View Insert Format Data Tools Add-ons Help

100% \$ % .0 .00 123 Arial 10

fx Certification

	A	B	C	D	E	F	G
1	Certification	SUM of Gross	SUM of Budget				
2		14,644,669	1,330,907,898				
3	G	1,540,370,967	1,091,450,000				
4	NC-17	4,000,304	6,500,000				
5	Not Rated	15,232,585	206,406,600				
6	PG	13,267,829,501	11,158,120,000				
7	PG-13	32,065,822,644	25,720,520,000				
8	R	15,409,503,885	11,150,253,942				
9	Unrated	1,009,472	19,420,000				
10	Grand Total	62,318,414,027	50,683,578,440				
11							
12							
13							
14							
15							
16							
17							
18							

Pivot table editor

☒ Show totals

Columns [ADD](#)

Values as: Columns [ADD](#)

Gross

Summarize by SUM Show as Default

Budget

Summarize by SUM Show as Default

Filters [ADD](#)

Sheet1 Pivot Table 2

Film Dataset

File Edit View Insert Format Data Tools Add-ons Help

100% \$ % .0 .00 123 Arial 10

fx Certification

	A	B	C	D	E	F	G
1	Certification	SUM of Gross	SUM of Budget	Calculated Field			
2		14,644,669	1,330,907,898	-1,316,263,229			
3	G	1,540,370,967	1,091,450,000	448,920,967			
4	NC-17	4,000,304	6,500,000	-2,499,696			
5	Not Rated	15,232,585	206,406,600	-191,174,015			
6	PG	13,267,829,501	11,158,120,000	2,109,709,501			
7	PG-13	32,065,822,644	25,720,520,000	6,345,302,644			
8	R	15,409,503,885	11,150,253,942	4,259,249,943			
9	Unrated	1,009,472	19,420,000	-18,410,528			
10	Grand Total	62,318,414,027	50,683,578,440	11,634,835,587			
11							
12							
13							
14							
15							
16							
17							
18							

Sheet1 Pivot Table 2

Pivot table editor

Columns

Values as: Columns

Gross

Summarize by SUM Show as Default

Budget

Summarize by SUM Show as Default

Calculated Field 1

Formula =Gross-Budget

Summarize by SUM Show as Default

Film Dataset

File Edit View Insert Format Data Tools Add-ons Help

All changes saved in Drive

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Arial

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fx

Title

	A	B	C	D	E	F
1	Title	SUM of Gross				
2	42	95,001,343				
3	1911	127,437				
4	10 Cloverfield Lane	71,897,215				
5	10 Days in a Madhouse	14,616				
6	12 Years a Slave	56,667,870				
7	127 Hours	18,329,466				
8	13 Hours	52,822,418				
9	2 Guns	75,573,300				
10	20 Feet from Stardom	4,946,250				
11	2016: Obama's America	33,349,949				
12	21 & Over	25,675,765				
13	21 Jump Street	138,447,667				
14	22 Jump Street	191,616,238				
15	3 Days to Kill	30,688,364				
16	30 Minutes or Less	37,053,924				
17	300: Rise of an Empire	106,369,117				
18	47 Ronin	38,297,305				

Pivot table editor

Columns

ADD

Values

ADD

Gross

Summarize by

SUM

Show as

Default

Filters

ADD

Gross

Status

Showing 1,099 items

Certification

Status

Showing 3 items

+

≡

Sheet1

Pivot Table 1

+

Let's practice!

PIVOT TABLES IN SPREADSHEETS

Additional Options for Pivot Tables

PIVOT TABLES IN SPREADSHEETS



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Film Dataset

File Edit View Insert Format Data Tools Add-ons Help

100% \$ % .0 .00 123 Arial 10

fx Certification

	A	B	C	D	E	F	G
1	Certification	SUM of Budget					
2		1,330,907,898					
3	G	1,091,450,000					
4	NC-17	6,500,000					
5	Not Rated	206,406,600					
6	PG	11,158,120,000					
7	PG-13	25,720,520,000					
8	R	11,150,253,942					
9	Unrated	19,420,000					
10	Grand Total	50,683,578,440					
11							
12							
13							
14							
15							
16							
17							
18							

Pivot table editor

Certification

Order Ascending Sort by Certification

☒ Show totals

Columns

ADD

Values

Budget

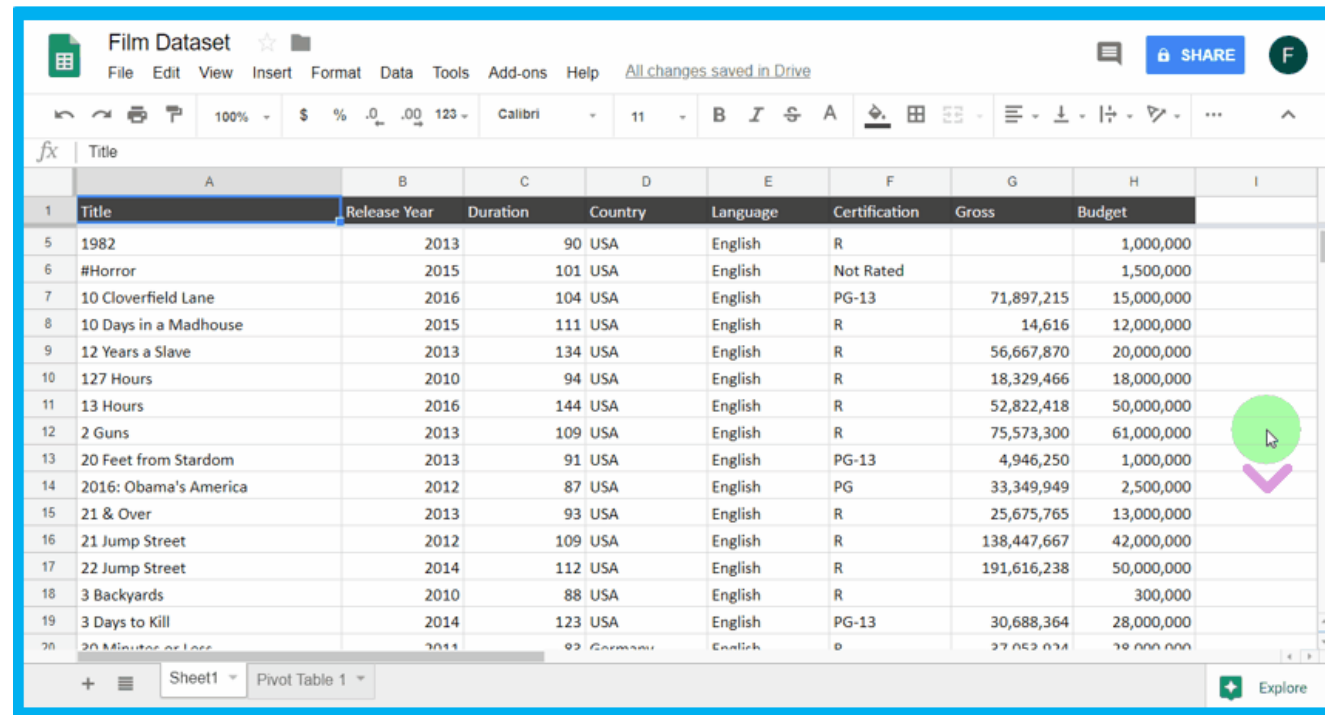
Summarize by SUM Show as Default

Filters

ADD

Sheet1 Pivot Table 2

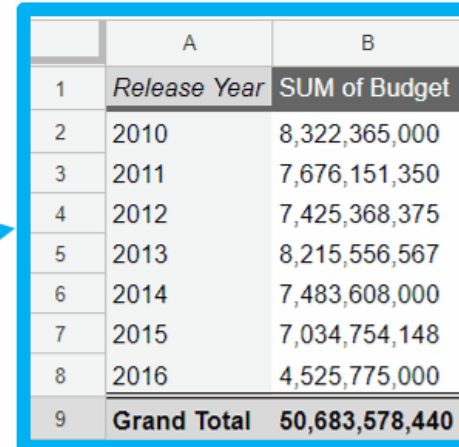
Dataset



Film Dataset

	A	B	C	D	E	F	G	H	I
1	Title	Release Year	Duration	Country	Language	Certification	Gross	Budget	
5	1982	2013	90	USA	English	R		1,000,000	
6	#Horror	2015	101	USA	English	Not Rated		1,500,000	
7	10 Cloverfield Lane	2016	104	USA	English	PG-13	71,897,215	15,000,000	
8	10 Days in a Madhouse	2015	111	USA	English	R	14,616	12,000,000	
9	12 Years a Slave	2013	134	USA	English	R	56,667,870	20,000,000	
10	127 Hours	2010	94	USA	English	R	18,329,466	18,000,000	
11	13 Hours	2016	144	USA	English	R	52,822,418	50,000,000	
12	2 Guns	2013	109	USA	English	R	75,573,300	61,000,000	
13	20 Feet from Stardom	2013	91	USA	English	PG-13	4,946,250	1,000,000	
14	2016: Obama's America	2012	87	USA	English	PG	33,349,949	2,500,000	
15	21 & Over	2013	93	USA	English	R	25,675,765	13,000,000	
16	21 Jump Street	2012	109	USA	English	R	138,447,667	42,000,000	
17	22 Jump Street	2014	112	USA	English	R	191,616,238	50,000,000	
18	3 Backyards	2010	88	USA	English	R		300,000	
19	3 Days to Kill	2014	123	USA	English	PG-13	30,688,364	28,000,000	
20	30 Minutes or Less	2011	92	Germany	English	R	27,052,024	28,000,000	

Pivot Table



	A	B
1	Release Year	SUM of Budget
2	2010	8,322,365,000
3	2011	7,676,151,350
4	2012	7,425,368,375
5	2013	8,215,556,567
6	2014	7,483,608,000
7	2015	7,034,754,148
8	2016	4,525,775,000
9	Grand Total	50,683,578,440

Film Dataset

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Release Year

	A	B	C	D	E	F	G	H
1	COUNTA of Ti Certification							
2	Release Year	G	PG	PG-13	R	Grand Total		
3	2010	3	39	72	96	210		
4	2011	5	29	76	93	203		
5	2012	2	26	71	84	183		
6	2013	1	26	68	93	188		
7	2014	3	28	72	86	189		
8	2015	1	22	60	77	160		
9	2016		11	41	31	83		
10	Grand Total	15	181	460	560	1,216		
11								
12								
13								
14								
15								
16								
17								
18								

Pivot table editor

☒ Show totals

Columns

Certification

Order: Ascending, Sort by: Certification

☒ Show totals

Values

Title

Summarize by: COUNTA, Show as: Default

Filters

Certification

Sheet1 Pivot Table 2

Film Dataset

File Edit View Insert Format Data Tools Add-ons Help

100% \$ % .0 .00 123 Arial 10

610,968

	A	B	C	D	E	F	G	H
1	Language	SUM of Gross						
2		0						
3	Arabic	0						
4	Bosnian	301,305						
5	Cantonese	2,255,626						
6	Chinese	50,000						
7	Danish	610,968						
8	English	62,154,901,940						
9	French	21,213,979						
10	German	160,186						
11	Hebrew	3,003,216						
12	Hindi	17,301,923						
13	Icelandic	11,835						
14	Indonesian	4,589,344						
15	Italian	2,835,886						
16	Japanese	22,770						
17	Kannada	0						
18	Korean	770,629						

Pivot table editor

Suggested

Rows

Language

Order

Ascending

Sort by

Language

Show totals

Columns

Values

Gross

Summarize by

SUM

Show as

Default

Sheet1 Pivot Table 2

Film Dataset

File Edit View Insert Format Data Tools Add-ons Help

100% \$ % .0 .00 123 Arial 10

fx Gross

	A	B	C	D	E	F	G	H
1	Gross	COUNTA of Title						
2		341						
3	162	1						
4	1,332	1						
5	1,521	1						
6	1,711	1						
7	2,245	1						
8	2,436	1						
9	2,468	1						
10	2,843	1						
11	2,964	1						
12	3,330	1						
13	3,830	1						
14	4,063	1						
15	4,091	1						
16	4,556	1						
17	4,584	1						
18	4,756	1						

+

Sheet1

Pivot Table 2

Pivot table editor

Suggested

Rows

Gross

OrderAscendingSort byGross

☒ Show totals

Columns

Values

Title

Summarize byCOUNTAShow asDefault

Let's practice!

PIVOT TABLES IN SPREADSHEETS