Summarizing and Organizing Data in Excel

GROUPING AND OUTLINING YOUR DATA



Ben Howard
DATA CONSULTANT

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Type	Quantity
Apple	17
Berries	14
Grapes	22
Kiwi	29
Lemon	19
Lime	17
Mango	21
Orange	23
Peach	22
Pear	17

10,000



Туре	Quantity	Unit Cost	Total Cost
Apple	19	5.29	100.60
Blueberries	28	2.53	70.93
Grapes	27	6.28	169.59
Kiwi	30	2.52	75.66
Lemon	25	5.03	125.76
Lime	16	8.68	138.90
Mango	20	1.62	32.41
Orange	27	4.85	130.82
Peach	14	8.99	125.87
Pear	15	7.13	106.92
Pineapple	29	0.48	13.96
Strawberry	13	2.18	28.28

Name	Age	
Jane	19	
John	28	
Nahita	27	
Pedro	54	
Amilia	22	

For Reorde r	Inventory ID	Name	Description	Unit Price	Quantity in Stock	Inventory Value	Reorder Level	Reorder Time in Days	Quantity in Reorder	Discontinued?
 ►	IN0001	Item 1	Desc 1	\$51.00	25	\$1,275.00	29	13	50	
 ►	IN0002	Item 2	Desc 2	\$93.00	132	\$12,276.00	231	4	50	
	IN0003	Item 3	Desc 3	\$57.00	151	\$8,607.00	114	11	150	
	IN0004	Item 4	Desc 4	\$19.00	186	\$3,534.00	158	6	50	
	IN0005	Item 5	Desc 5	\$75.00	62	\$4,650.00	39	12	50	
 ▶	IN0006	Item 6	Desc 6	\$11.00	5	\$55.00	9	13	150	
	IN0007	Item 7	Desc-7	\$56.00	58	\$3,248.00	109	7	100	Yes
	IN0008	Item 8	Desc 8	\$38.00	101	\$3,838.00	162	3	100	
	IN0009	Item 9	Desc 9	\$59.00	122	\$7,198.00	82	3	150	
	IN0010	Item 10	Desc 10	\$50.00	175	\$8,750.00	283	8	150	
 ▶	IN0011	Item 11	Desc 11	\$59.00	176	\$10,384.00	229	1	100	
	IN0012	Item 12	Desc 12	\$18.00	22	\$396.00	36	12	50	
 ▶	IN0013	Item 13	Desc 13	\$26.00	72	\$1,872.00	102	9	100	
	IN0014	Item 14	Desc 14	\$42.00	62	\$2,604.00	83	2	100	
	IN0015	Item 15	Desc 15	\$32.00	46	\$1,472.00	23	15	50	
	IN0016	Item 16	Desc 16	\$90.00	96	\$8,640.00	180	3	50	
	IN0017	Item 17	Desc 17	\$97.00	57	\$5,529.00	98	12	50	Yes
 ▶	IN0018	Item 18	Desc 18	\$12.00	6	\$72.00	7	13	50	
 ▶	IN0019	Item 19	Desc 19	\$82.00	143	\$11,726.00	164	12	150	
	IN0020	Item 20	Desc 20	\$16.00	124	\$1,984.00	113	14	50	
	IN0021	Item 21	Desc 21	\$19.00	112	\$2,128.00	75	11	50	
	IN0022	Item 22	Desc 22	\$24.00	182	\$4,368.00	132	15	150	
	IN0023	Item 23	Desc 23	\$29.00	106	\$3,074.00	142	1	150	Yes
	IN0024	Item 24	Desc 24	\$75.00	173	\$12,975.00	127	9	100	
	IN0025	Item 25	Desc 25	\$14.00	28	\$392.00	21	8	50	



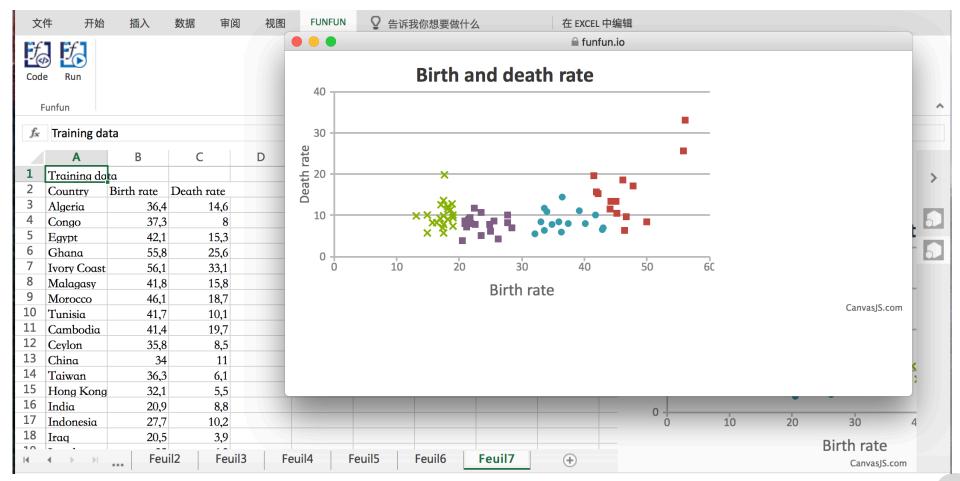
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1	Weekday	Date	Start time	Duration	Day accumulated	WeekDayNum 1	•	DATE		Hour	Г
2	Saturday	,oll 5/28/2	16 1:25 PM	0:35	0:35	6	1	5/28/2016	Saturday	3.33	
3	Saturday	(0) 5/28/2	16 2:15 PM	0:30	1:05	6	2	5/29/2016	Sunday	1.83	
1	Saturday	.oll 5/28/2	16 2:45 PM	0:15	1:20	6	3	5/30/2016	Monday	0.00	
,	Saturday	(0) 5/28/2	16 4:30 PM	1:50	3:10	6	4	5/31/2016	Tuesday	0.00	
,	Saturday	.oll 5/28/2	16 6:30 PM	0:10	3:20	6	5	6/1/2016	Wednesday	1.08	
,	Sunday	(0) 5/29/2	16 3:55 PM	0:30	0:30	7	6	6/2/2016	Thursday	1.00	
3	Sunday	.oll 5/29/2	16 4:35 PM	0:10	0:40	7	7	6/3/2016	Friday	0.83	
)	Sunday	(0) 5/29/2	16 5:00 PM	0:50	1:30	7	8	6/4/2016	Saturday	2.00	
0	Sunday	(0) 5/29/2	16 6:05 PM	0:20	1:50	7	9	6/5/2016	Sunday	1.67	
1	Wednesday	(0) 6/1/2	16 8:30 PM	0:35	0:35	3	10	6/6/2016	Monday	0.83	
2	Wednesday	(0) 6/1/2	16 9:30 PM	0:30	1:05	3	11	6/7/2016	Tuesday	0.42	
3	Thursday	,oll 6/2/2	16 8:30 PM	0:30	0:30	4	12	6/8/2016	Wednesday	0.75	
4	Thursday	(d) 6/2/2	16 9:20 PM	0:30	1:00	4	13	6/9/2016	Thursday	0.75	
5	Friday	.oll 6/3/2	16 7:10 PM	0:50	0:50	5	14	6/10/2016	Friday	0.00	
6	Saturday	(0) 6/4/2	16 3:30 PM	0:15	0:15	6	15	6/11/2016	Saturday	0.83	
7	Saturday	.oll 6/4/2	16 4:15 PM	0:15	0:30	6	16	6/12/2016	Sunday	4.00	
8	Saturday	(0) 6/4/2	16 4:30 PM	1:30	2:00	6	17	6/13/2016	Monday	1.75	
9	Sunday	(0) 6/5/2	16 2:10 PM	0:40	0:40	7	18	6/14/2016	Tuesday	0.58	
0	Sunday	(0) 6/5/2	16 3:20 PM	0:15			19	6/15/2016	Wednesday	0.50	
1	Sunday	(0) 6/5/2	16 4:00 PM	0:30	1:25	7	20	6/16/2016	Thursday	0.00	
2	Sunday	(0) 6/5/2	16 4:45 PM	0:15	1:40	7	21	6/17/2016	Friday	0.00	
3	Monday	ell 6/6/2	16 8:30 PM	0:10	0:10	1	22	6/18/2016	Saturday	4.08	
4	Monday	oll 6/6/2	16 8:40 PM	0:40	0:50	1	23	6/19/2016	Sunday	4.33	
5	Tuesday	eil] 6/7/2	16 8:45 PM	0:10			24	6/20/2016	Monday	1.83	
5	Tuesday	ell] 6/7/2	16 9:30 PM	0:15	0:25	2	25	6/21/2016	Tuesday	1.50	
7	Wednesday	ell 6/8/2	16 8:20 PM	0:25	0:25	3	26	6/22/2016	Wednesday	0.42	
3	Wednesday	ett] 6/8/2	16 9:15 PM	0:20	0:45	3	27	6/23/2016	Thursday	0.42	Г
9	Thursday	ell] 6/9/2	16 8:45 PM	0:25	0:25	4	28	6/24/2016	Friday	1.00	Г
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1	Student II -	Name 💌	Grade leve -	Activity -	Activity Typ Date	~	Class	- 1	Weight	Points	×	Column -	
2	23	John Smith	5	hw1	homework	4/15/2001	Algebra		0.1	9	3.5	time	
3	21	Suzi Huang	5	hw1	homework	4/15/2001	Algebra		0.1	8	3.9		
4	32	Rolfie Hostedler	5	hw1	homework	4/15/2001	Algebra		0.1	9	3.8		
5	26	Susan Jones	5	hw1	homework	4/15/2001	Algebra		0.1		7		
6	27	Alice Chalmer	6	hw1	homework	4/15/2001	Trig		0.1	5	3.5		
7	23	John Smith	5	project1	assignment	4/19/2001	Visual Basi	ic	0.3		27		
8	26	Susan Jones	5	project1	assignment	4/19/2001	Visual Basi	ic	0.3		27		
9	21	Suzi Huang	5	project1	assignment	4/19/2001	Visual Basi	ic	0.3	25	5.8		
10	32	Rolfie Hostedler	5	project1	assignment	4/19/2001	Visual Basi	ic	0.3	26	5.4		
11	26	Susan Jones	5	exam	test	5/31/2001	Algebra		0.28	19.	04		
12	23	John Smith	5	exam	test	5/31/2001	Algebra		0.28	25	5.2		
13	21	Suzi Huang	5	exam	test	5/31/2001	Algebra		0.28	26	5.6		
14	32	Rolfie Hostedler	5	exam	test	5/31/2001	Algebra		0.28	23	3.8		
15	26	Susan Jones	5	hw2	homework	4/22/2001	Algebra		0.1	(5.8		
16	23	John Smith	5	hw2	homework	4/22/2001	Algebra		0.1		9		
17	21	Suzi Huang	5	hw2	homework	4/22/2001	Algebra		0.1	9	3.5		
18	32	Rolfie Hostedler	5	hw2	homework	4/22/2001	Algebra		0.1	8	3.5		
19	27	Alice Chalmer	6	exam	test	5/31/2001	Trig		0.28		21		
20	27	Alice Chalmer	6	hw2	homework	4/22/2001	Trig		0.1	7	7.5		
21	23	John Smith	5	hw3	homework	4/23/2001	Algebra		0.1		10		
22	32	Rolfie Hostedler	5	hw3	homework	4/23/2001	Algebra		0.1	8	3.6		
23	26	Susan Jones	5	hw3	homework	4/23/2001	Algebra		0.1	5	3.2		
24	27	Alice Chalmer	6	hw3	homework	4/23/2001	Trig		0.1	8	3.8		
25	26	Susan Jones	5	quiz1	test	4/24/2001	Algebra		0.14	10.	36		
26	23	John Smith	5	quiz1	test	4/24/2001	Algebra		0.14	12.	46		
27	21	Suzi Huang	5	quiz1	test	4/24/2001	Algebra		0.14	12	2.6		
28	32	Rolfie Hostedler		quiz1	test	4/24/2001	Algebra		0.14	12	2.6		
29	27	Alice Chalmer	6	quiz1	test	4/24/2001	Trig		0.14	12	2.6		
30	23	John Smith	5	hw1	homework	4/29/2001	Visual Basi	ic	0.1	8	3.8		
31	26	Susan Jones	5	quiz2	test	5/15/2001	Algebra		0.14	11.	76		



HOUSING	Projected Cost	Actual Cost	Difference
Mortgage or rent	\$1,000.00	\$1,000.00	\$0.00
Phone	\$54.00	\$100.00	-\$46.00
Electricity	\$44.00	\$56.00	-\$12.00
Gas	\$22.00	\$28.00	-\$6.00
Water and sewer	\$8.00	\$8.00	\$0.00
Cable	\$34.00	\$34.00	\$0.00
Waste removal	\$10.00	\$10.00	\$0.00
Maintenance or repairs	\$23.00	\$0.00	\$23.00
Supplies	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Subtotal			-\$41.00

	A B	С	D	E	F	G	Н	1
88	79	05/02/2026	\$4,137.64	\$108.53	\$89.56	\$18.96	\$4,048.08	
89	80	05/03/2026	\$4,048.08	\$108.53	\$89.97	\$18.55	\$3,958.11	
90	81	05/04/2026	\$3,958.11	\$108.53	\$90.38	\$18.14	\$3,867.72	
91	82	05/05/2026	\$3,867.72	\$108.53	\$90.80	\$17.73	\$3,776.92	
92	83	05/06/2026	\$3,776.92	\$108.53	\$91.22	\$17.31	\$3,685.71	
93	84	05/07/2026	\$3,685.71	\$108.53	\$91.63	\$16.89	\$3,594.07	
94	85	05/08/2026	\$3,594.07	\$108.53	\$92.05	\$16.47	\$3,502.02	
95	86	05/09/2026	\$3,502.02	\$108.53	\$92.48	\$16.05	\$3,409.54	
96	87	05/10/2026	\$3,409.54	\$108.53	\$92.90	\$15.63	\$3,316.65	
97	88	05/11/2026	\$3,316.65	\$108.53	\$93.32	\$15.20	\$3,223.32	
98	89	05/12/2026	\$3,223.32	\$108.53	\$93.75	\$14.77	\$3,129.57	
99	90	05/01/2027	\$3,129.57	\$108.53	\$94.18	\$14.34	\$3,035.38	
100	91	05/02/2027	\$3,035.38	\$108.53	\$94.61	\$13.91	\$2,940.77	
101	92	05/03/2027	\$2,940.77	\$108.53	\$95.05	\$13.48	\$2,845.72	
102	93	05/04/2027	\$2,845.72	\$108.53	\$95.48	\$13.04	\$2,750.24	
103	94	05/05/2027	\$2,750.24	\$108.53	\$95.92	\$12.61	\$2,654.32	
104	95	05/06/2027	\$2,654.32	\$108.53	\$96.36	\$12.17	\$2,557.96	
105	96	05/07/2027	\$2,557.96	\$108.53	\$96.80	\$11.72	\$2,461.16	
106	97	05/08/2027	\$2,461.16	\$108.53	\$97.25	\$11.28	\$2,363.91	
107	98	05/09/2027	\$2,363.91	\$108.53	\$97.69	\$10.83	\$2,266.22	
108	99	05/10/2027	\$2,266.22	\$108.53	\$98.14	\$10.39	\$2,168.08	
109	100	05/11/2027	\$2,168.08	\$108.53	\$98.59	\$9.94	\$2,069.49	
110	101	05/12/2027	\$2,069.49	\$108.53	\$99.04	\$9.49	\$1,970.45	
111	102	05/01/2028	\$1,970.45	\$108.53	\$99.50	\$9.03	\$1,870.95	-

Туре	Quantity
Apple	19
Blueberries	28
Grapes	27
Kiwi	30
Lemon	25
Lime	16
Mango	20
Orange	27
Peach	14
Pear	15

Course Agenda



Grouping and Outlining Your Data
Inserting Totals and Subtotals
Applying Conditional Formatting
Inserting Sparklines
Exploring Other Excel Capabilities

Module Agenda



Grouping vs. Outlining
Group on Rows and Columns
Apply and Remove Groups and Outlines

Why Group and Outline Data?

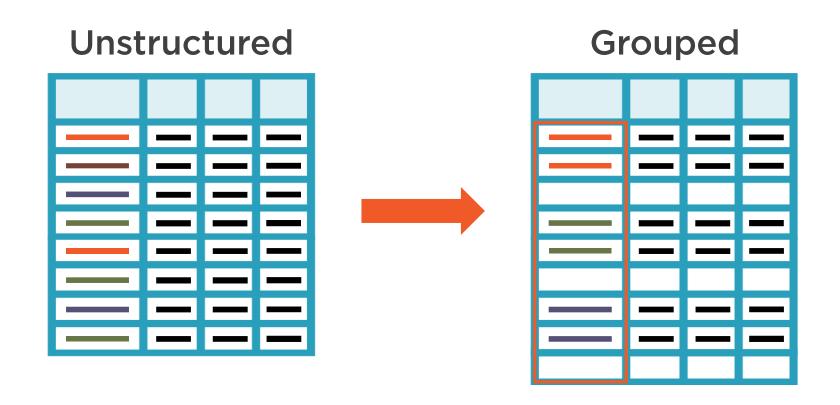
Unstructured Structured **Data Obscurity Data Insights**

Grouping and Outlining provides structure and therefore leads to

understanding



Grouping







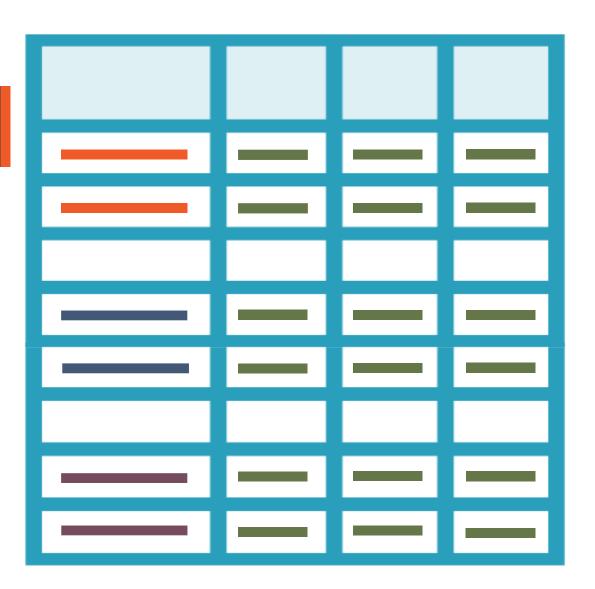






Grouping is simple and intuitive

Grouping



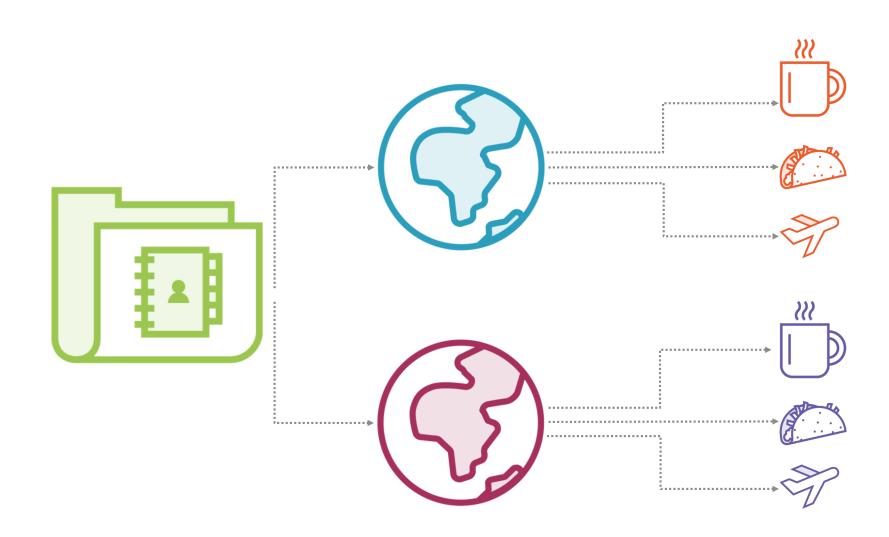


A max of 8 Outline Levels are allowed

Outlining

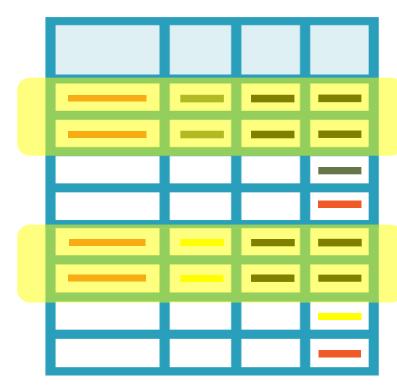


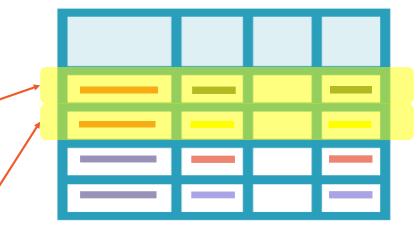




Grouping vs. Outlining

Grouping Outlining





Outlining provides the option to collapse and expand related sections of the data

Rules for Applying Groups & Outlines



There must be a common grouping criteria

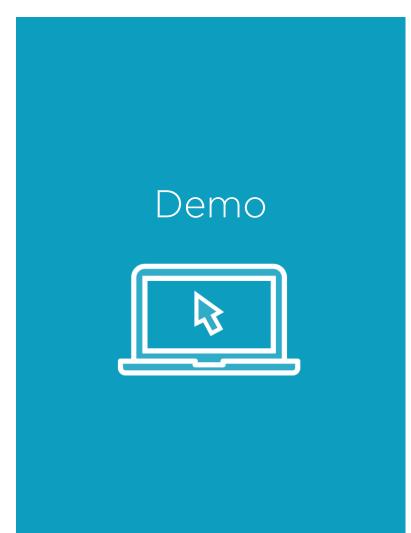


The data must be sorted by the grouped item(s)



You're going to have to insert some blank rows to act as a separator between the groups





Creating Groups and Outlines





Removing Groups and Outlines



Module Summary



Grouping vs. Outlining
Group on rows and columns
Apply and remove Groups and Outlines