

Excel Functions

MATH 1441, BCIT

Technical Mathematics for Food Technology

October 1, 2018

Excel Functions I

Excel Function	Description
SUM	Calculates the sum of a group of values
AVERAGE	Calculates the mean of a group of values
COUNT	Counts the number of cells in a range that contains numbers
INT	Removes the decimal portion of a number leaving just the integer portion
ROUND	Rounds a number to a specified number of decimal places or digit positions

Excel Functions II

Excel Function	Description
IF	Tests for a true or false condition and then returns one value or another
NOW	Returns the system date and time
TODAY	Returns the system date without the time
SUMIF	Calculates a sum from a group of values but just of values that are included because a condition is met
COUNTIF	Counts the number of cells in a range that match a criteria

have a look at PHIL375grades.xls. Answer the following questions.

- 1 How many essays were graded in total?
- 2 Compare essay grades for the two different graders.
- 3 What is the maximum and minimum score on the final exam?
- 4 What is the average final grade for the course?
- 5 How many students have a final grade in the 70-100% range?
- 6 How many students have a final grade in the 50-70% range?
- 7 How many students consistently score more than 80% on essays?

have a look at PHIL375grades.xls. Answer the following questions.

- 1 How many essays were graded in total?
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- 7 How many students consistently score more than 80% on essays?

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PHIL 375 Grades Screen Shot 1

PHIL375grades.xlsx - Excel

Stefan Lukits

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

Clipboard Font Alignment Number Styles Cells Editing

SUM \times \checkmark f_x =count(e2:e85)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
73	Shellhamer	Edward	44697402	Warren	0.9	0.55	0.63	0.65	22	0.71				
74	Baughman	Mildred	13982589	Warren	0.9	0.35	0.74	0.57	14	0.6				
75	Welty	Alexander	13085157	Stefan	0.95	0.72	0.78	0.77	20	0.78				
76	Savage	Gail	87432495	Stefan	0.9	0.66	0.77	0.74	22	0.78				
77	Carpenter	Irene	19087674	Stefan	0.9	0.34	0.5	0.45	15	0.51				
78	Elliott	Scott	63352534	Warren	0.9	0.57	0.76	0.72	22	0.76				
79	Carroll	Barbara	55767836	Stefan		0.29	0.17	0.54	17	0.45				
80	Mcintyre	Tiffany	53668579	Warren	0.9					0.05				
81	Matson	Jeffery	52877968	Warren	0.9	0.68	0.73	0.61	19	0.45				
82	Rivers	Robert	78215019	Stefan	0.9	0.59	0.65	0.82	24	0.8				
83	Lobe	David	28422093	Warren	0.9	0.7	0.8	0.75	25	0.83				
84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86					=count(e2:e85)									
87														

PHIL375grades

ENTER 100%

PHIL 375 Grades Screen Shot 2

PHIL375grades.xlsx - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

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Clipboard Font Alignment Number Styles Cells

General

Conditional Formatting Table Styles

Insert Delete Format

Sort & Filter Find & Select

Editing

E86

\times \checkmark fx =sum(E86:H86)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
73	Shellhamer	Edward	44697402	Warren	0.9	0.55	0.63	0.65	22	0.71				
74	Baughman	Mildred	13982589	Warren	0.9	0.35	0.74	0.57	14	0.6				
75	Welty	Alexander	13085157	Stefan	0.95	0.72	0.78	0.77	20	0.78				
76	Savage	Gail	87432495	Stefan	0.9	0.66	0.77	0.74	22	0.78				
77	Carpenter	Irene	19087674	Stefan	0.9	0.34	0.5	0.45	15	0.51				
78	Elliott	Scott	63352534	Warren	0.9	0.57	0.76	0.72	22	0.76				
79	Carroll	Barbara	55767836	Stefan		0.29	0.17	0.54	17	0.45				
80	Mcintyre	Tiffany	53668579	Warren	0.9					0.05				
81	Matson	Jeffery	52877968	Warren	0.9	0.68	0.73	0.61	19	0.45				
82	Rivers	Robert	78215019	Stefan	0.9	0.59	0.65	0.82	24	0.8				
83	Lobe	David	28422093	Warren	0.9	0.7	0.8	0.75	25	0.83				
84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86					81	75	74	76	=sum(E86:H86)					
87														
88														

PHIL375grades

ENTER

100%

PHIL 375 Grades Screen Shot 3

PHIL375grades.xlsx - Excel

Stefan Lukits

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
73	Shellhamer	Edward	44697402	Warren	0.9	0.55	0.63	0.65	22	0.71				
74	Baughman	Mildred	13982589	Warren	0.9	0.35	0.74	0.57	14	0.6				
75	Welty	Alexander	13085157	Stefan	0.95	0.72	0.78	0.77	20	0.78				
76	Savage	Gail	87432495	Stefan	0.9	0.66	0.77	0.74	22	0.78				
77	Carpenter	Irene	19087674	Stefan	0.9	0.34	0.5	0.45	15	0.51				
78	Elliott	Scott	63352534	Warren	0.9	0.57	0.76	0.72	22	0.76				
79	Carroll	Barbara	55767836	Stefan		0.29	0.17	0.54	17	0.45				
80	Mcintyre	Tiffaney	53668579	Warren	0.9					0.05				
81	Matson	Jeffery	52877968	Warren	0.9	0.68	0.73	0.61	19	0.45				
82	Rivers	Robert	78215019	Stefan	0.9	0.59	0.65	0.82	24	0.8				
83	Lobe	David	28422093	Warren	0.9	0.7	0.8	0.75	25	0.83				
84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86					81	75	74	76	306					
87														

PHIL375grades

PHIL 375 Grades Screen Shot 4

The screenshot shows the Microsoft Excel interface with the 'PHIL375grades.xlsx' file open. The 'DATA' tab is active in the ribbon. A 'Sort' dialog box is open, displaying the following settings:

- Sort by:** Grader
- Sort On:** Values
- Order:** A to Z
- ☒ My data has headers

The background spreadsheet contains the following data:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
78	Elliott	Scott	63352534	Warren	0.9	0.57	0.76	0.72	22	0.76				
79	Carroll									0.45				
80	Mcintyre									0.05				
81	Matson									0.45				
82	Rivers									0.8				
83	Lobe									0.83				
84	Diaz									0.91				
85	Richards									0.79				
86														
87														
88														
89														
90														
91														
92														

The status bar at the bottom shows: READY, PHIL375grades, AVERAGE: 8090225.274, COUNT: 815, SUM: 4481984802, and 100% zoom.

PHIL 375 Grades Screen Shot 5

PHIL375grades.xlsx - Excel

Stefan Lukits

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

Get External Data: From Access, From Web, From Text, From Other Sources, Existing Connections, Refresh All, Connections, Properties, Edit Links

Sort & Filter: Sort, Filter, Clear, Reapply, Advanced

Data Tools: Flash Fill, Remove Duplicates, Text to Columns, Data Validation, Consolidate, What-If Analysis, Relationships, Outline

SUM \times \checkmark f_x =average(e2:e36)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
76	Roberts	Thomas	51687863	Warren	0.9	0.7	0.73	0.64	18	0.7				
77	Madigan	Melissa	64767388	Warren	0.9	0.34		0.73	25	0.62				
78	Shellhamer	Edward	44697402	Warren	0.9	0.55	0.63	0.65	22	0.71				
79	Baughman	Mildred	13982589	Warren	0.9	0.35	0.74	0.57	14	0.6				
80	Elliott	Scott	63352534	Warren	0.9	0.57	0.76	0.72	22	0.76				
81	Mcintyre	Tiffany	53668579	Warren	0.9					0.05				
82	Matson	Jeffery	52877968	Warren	0.9	0.68	0.73	0.61	19	0.45				
83	Lobe	David	28422093	Warren	0.9	0.7	0.8	0.75	25	0.83				
84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86														
87				Stefan	=average(e2:e36)									
88				Warren										
89														
90														

PHIL375grades

ENTER

100%

PHIL 375 Grades Screen Shot 6

PHIL375grades.xlsx - Excel

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FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

Get External Data: From Access, From Web, From Text, From Other Sources, Existing Connections, Refresh All, Connections, Properties, Edit Links

Sort & Filter: Sort, Filter, Clear, Reapply, Advanced

Data Tools: Flash Fill, Remove Duplicates, Text to Columns, Data Validation, Consolidate, What-If Analysis, Relationships

Outline: Group, Ungroup, Subtotal

SUM X ✓ fx =average(e37:e85)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
76	Roberts	Thomas	51687863	Warren	0.9	0.7	0.73	0.64	18	0.7				
77	Madigan	Melissa	64767388	Warren	0.9	0.34		0.73	25	0.62				
78	Shellhamer	Edward	44697402	Warren	0.9	0.55	0.63	0.65	22	0.71				
79	Baughman	Mildred	13982589	Warren	0.9	0.35	0.74	0.57	14	0.6				
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81	Mcintyre	Tiffany	53668579	Warren	0.9					0.05				
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83	Lobe	David	28422093	Warren	0.9	0.7	0.8	0.75	25	0.83				
84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86														
87				Stefan	0.913636									
88				Warren	=average(e37:e85)									
89														
90														

PHIL375grades

ENTER

100%

PHIL 375 Grades Screen Shot 7

PHIL375grades.xlsx - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

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From Access From Web From Text

Get External Data

Format Cells

Number Alignment Font Border Fill Protection

Category:

- General
- Number**
- Currency
- Accounting
- Date
- Time
- Percentage
- Fraction
- Scientific
- Text
- Special
- Custom

Sample: 0.91

Decimal places: 2

☐ Use 1000 Separator (,)

Negative numbers:

- 1234.10**
- 1234.10
- (1234.10)
- (1234.10)

Number is used for general display of numbers. Currency and Accounting offer specialized formatting for monetary value.

OK Cancel

Consolidate What-If Analysis Validation Relationships Data Tools

Group Ungroup Subtotal Outline

	J	K	L	M	N
8	0.7				
5	0.62				
2	0.71				
4	0.6				
2	0.76				
	0.05				
9	0.45				
5	0.83				
4	0.91				
5	0.79				

PHIL3

READY

5.998244162

100%

PHIL 375 Grades Screen Shot 8

PHIL375grades.xlsx - Excel

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FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

Get External Data: From Access, From Web, From Text, From Other Sources, Existing Connections, Refresh All, Connections, Properties, Edit Links

Sort & Filter: Sort, Filter, Clear, Reapply, Advanced

Data Tools: Flash Fill, Remove Duplicates, Text to Columns, Data Validation, Consolidate, What-If Analysis, Relationships

Outline: Group, Ungroup, Subtotal

H90

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
76	Roberts	Thomas	51687863	Warren	0.9	0.7	0.73	0.64	18	0.7				
77	Madigan	Melissa	64767388	Warren	0.9	0.34		0.73	25	0.62				
78	Shellhamer	Edward	44697402	Warren	0.9	0.55	0.63	0.65	22	0.71				
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85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86														
87				Stefan	0.91	0.66	0.73	0.71						
88				Warren	0.91	0.64	0.74	0.71						
89														
90														

PHIL375grades

READY 100%

PHIL 375 Grades Screen Shot 9

PHIL375grades.xlsx - Excel

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FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

Get External Data: From Access, From Web, From Text, From Other Sources, Existing Connections, Refresh All, Connections, Properties, Edit Links

Sort & Filter: Sort, Filter, Clear, Reapply, Advanced

Data Tools: Flash Fill, Remove Duplicates, Text to Columns, Data Validation, Consolidate, What-If Analysis, Relationships

Outline: Group, Ungroup, Subtotal

SUM: \times \checkmark f_x $=\text{max}(i2:i85)$

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
76	Savage	Gail	87432495	Stefan	0.9	0.66	0.77	0.74	22	0.78				
77	Carpenter	Irene	19087674	Stefan	0.9	0.34	0.5	0.45	15	0.51				
78	Elliott	Scott	63352534	Warren	0.9	0.57	0.76	0.72	22	0.76				
79	Carroll	Barbara	55767836	Stefan		0.29	0.17	0.54	17	0.45				
80	Mcintyre	Tiffany	53668579	Warren	0.9					0.05				
81	Matson	Jeffery	52877968	Warren	0.9	0.68	0.73	0.61	19	0.45				
82	Rivers	Robert	78215019	Stefan	0.9	0.59	0.65	0.82	24	0.8				
83	Lobe	David	28422093	Warren	0.9	0.7	0.8	0.75	25	0.83				
84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86														
87								Maximum	$=\text{max}(i2:i85)$					
88														
89														
90														

PHIL375grades

ENTER

100%

PHIL 375 Grades Screen Shot 10

PHIL375grades.xlsx - Excel

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FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

Get External Data: From Access, From Web, From Text, From Other Sources, Existing Connections, Refresh All, Edit Links, Connections, Properties

Sort & Filter: Sort, Filter, Clear, Reapply, Advanced

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SUM: $=\text{min}(i2:i85)$

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
76	Savage	Gail	87432495	Stefan	0.9	0.66	0.77	0.74	22	0.78				
77	Carpenter	Irene	19087674	Stefan	0.9	0.34	0.5	0.45	15	0.51				
78	Elliott	Scott	63352534	Warren	0.9	0.57	0.76	0.72	22	0.76				
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84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86														
87								Maximum	25					
88								Minimum	$=\text{min}(i2:i85)$					
89														
90														

PHIL375grades

ENTER

100%

PHIL 375 Grades Screen Shot 11

PHIL375grades.xlsx - Excel

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FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

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Outline: Group, Ungroup, Subtotal

SUM: \times \checkmark f_x =average(j2:j85)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
76	Savage	Gail	87432495	Stefan	0.9	0.66	0.77	0.74	22	0.78				
77	Carpenter	Irene	19087674	Stefan	0.9	0.34	0.5	0.45	15	0.51				
78	Elliott	Scott	63352534	Warren	0.9	0.57	0.76	0.72	22	0.76				
79	Carroll	Barbara	55767836	Stefan		0.29	0.17	0.54	17	0.45				
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84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86														
87							Maximum		25	=average(j2:j85)				
88							Minimum		14					
89														
90														

PHIL375grades

ENTER

100%

PHIL 375 Grades Screen Shot 12

PHIL375grades.xlsx - Excel

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FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

Get External Data: From Access, From Web, From Text, From Other Sources, Existing Connections, Refresh All, Connections, Properties, Edit Links

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Outline: Group, Ungroup, Subtotal

J88: =COUNTIF(J2:J85,">=0.70")

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
76	Savage	Gail	87432495	Stefan	0.9	0.66	0.77	0.74	22	0.78				
77	Carpenter	Irene	19087674	Stefan	0.9	0.34	0.5	0.45	15	0.51				
78	Elliott	Scott	63352534	Warren	0.9	0.57	0.76	0.72	22	0.76				
79	Carroll	Barbara	55767836	Stefan		0.29	0.17	0.54	17	0.45				
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84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86														
87							Maximum		25	0.69	Average			
88							Minimum		14	59	>70% range			
89														
90														

PHIL375grades

READY 100%

PHIL 375 Grades Screen Shot 13

PHIL375grades.xlsx - Excel

Stefan Lukits

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW JIVE ACROBAT

Get External Data: From Access, From Web, From Text, From Other Sources, Existing Connections, Refresh All, Connections, Properties, Edit Links

Sort & Filter: Sort, Filter, Clear, Reapply, Advanced

Data Tools: Flash Fill, Remove Duplicates, Text to Columns, Data Validation, Consolidate, What-If Analysis, Relationships

Outline: Group, Ungroup, Subtotal

J89: $\text{=COUNTIF(J2:J85,">=0.50")-COUNTIF(J2:J85,">0.70")}$

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
76	Savage	Gail	87432495	Stefan	0.9	0.66	0.77	0.74	22	0.78				
77	Carpenter	Irene	19087674	Stefan	0.9	0.34	0.5	0.45	15	0.51				
78	Elliott	Scott	63352534	Warren	0.9	0.57	0.76	0.72	22	0.76				
79	Carroll	Barbara	55767836	Stefan		0.29	0.17	0.54	17	0.45				
80	Mcintyre	Tiffany	53668579	Warren	0.9					0.05				
81	Matson	Jeffery	52877968	Warren	0.9	0.68	0.73	0.61	19	0.45				
82	Rivers	Robert	78215019	Stefan	0.9	0.59	0.65	0.82	24	0.8				
83	Lobe	David	28422093	Warren	0.9	0.7	0.8	0.75	25	0.83				
84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86														
87								Maximum	25	0.69	Average			
88								Minimum	14	59	70% or more range			
89										16	50%-70% range			
90														

PHIL375grades

READY 100%

PHIL 375 Grades Screen Shot 14

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Outline: Group, Ungroup, Subtotal

J90: =COUNTIFS(E2:E85,">.8",F2:F85,">.8",G2:G85,">.8",H2:H85,">.8")

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
79	Carroll	Barbara	55767836	Stefan		0.29	0.17	0.54	17	0.45				
80	Mcintyre	Tiffany	53668579	Warren	0.9					0.05				
81	Matson	Jeffery	52877968	Warren	0.9	0.68	0.73	0.61	19	0.45				
82	Rivers	Robert	78215019	Stefan	0.9	0.59	0.65	0.82	24	0.8				
83	Lobe	David	28422093	Warren	0.9	0.7	0.8	0.75	25	0.83				
84	Diaz	Theodore	37040691	Warren	0.95	0.8	0.89	0.9	24	0.91				
85	Richards	David	74866678	Warren	0.9	0.73	0.7	0.7	25	0.79				
86														
87								Maximum	25	0.69	Average			
88								Minimum	14	59	70% or more range			
89										16	50%-70% range			
90										6	Consistently >80% on essays			
91														
92														
93														

PHIL375grades

READY

100%

End of Lesson

Next Lesson: Line Fitting