DATA ANALYTICS WITH R, EXCEL AND TABLAEU ASSIGNMENT Excel Analytics 29.1

ANSWERS

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4. Associated Data Files

You should form a table on a worksheet titled "class list" that includes the names and test scores of your students. You have 7 students in your class, their names are: Allen, Borlin, Catlin, Dorsey, Eugene, Finneran, and Greco. Their scores on the first 3 tests are as follows:

	Test 1	Test 2	Test 3
Allen	Test 89	Test 78	Test 89
Borlin	Test 67	Test 56	Test 66
Catlin	Test 78	Test 76	Test 76
Dorsey	Test 56	Test 34	Test 45
Eugene	Test 26	Test 100	Test 99
Finerran	Test 99	Test 98	Test 97
Greco	Test 78	Test 87	Test 88

5. Problem Statement

• Using an Excel function, show each student's average in an additional column labelled "Average"

Ans

	Α	В	С	D	Е	
1		TEST 1	TEST2	TEST3	Average	
2	Allen	89	78	89	85.33333	
3	Borlin	67	56	66	63	
4	Catlin	78	76	76	76.66667	
5	Dorsey	56	34	45	45	
6	Eugene	26	100	99	75	
7	Finneran	99	98	97	98	
8	Greco	78	87	88	84.33333	
9						

• Using an Excel function, show each student's rounded average in an additional column labelled "Rounded Average"

Ans

	Α	В	С	D	Е	F	G
1		TEST 1	TEST2	TEST3	Average	Rounded Average	
2	Allen	89	78	89	85.33333	85	
3	Borlin	67	56	66	63	63	
4	Catlin	78	76	76	76.66667	77	
5	Dorsey	56	34	45	45	45	
6	Eugene	26	100	99	75	7	5
7	Finneran	99	98	97	98	9	8
8	Greco	78	87	88	84.33333	84	
9							

• If a student's rounded average is above "95", he/she has received "honors" in the class. In an additional column titled "Honors", insert a function that will return the word "Yes" if they have received honors, otherwise would return the word "No".

Ans function is =IF(B5>95,"yes","no")

	Α	В	С	D	Е	F	G	Н
1		TEST 1	TEST2	TEST3	Average	Rounded	Average	honors
2	Allen	89	78	89	85.33333	8	85	NO
3	Borlin	67	56	66	63	6	53	NO
4	Catlin	78	76	76	76.66667	7	7	NO
5	Dorsey	56	34	45	45	4	1 5	NO
6	Eugene	26	100	99	75	7	' 5	NO
7	Finneran	99	98	97	98	9	8	YES
8	Greco	78	87	88	84.33333	8	34	NO
9								

• If a student's rounded average is 90 or greater, they receive an "A". Between 80 and 90 is a "B", between 70 and 80 is a "C", between 60 and 70 is a "D", and lower than 60 is an "F". Somewhere on your sheet, enter this information in cells. Create an additional column titled "Grade" and insert a nested IF function that returns the appropriate grade for each student. Use an absolute cell references in your nested IF function to indicate cut-off points between grades. Hint: You will need to place the "cut-off grade" values in cells somewhere on your worksheet.

Ans function is =IF(F2<60,"F",IF(F2<70,"D",IF(F2<80,"C",IF(F2<90,"B","A"))))

4	Α	В	С	D	Е	F	G	Н	1
1		TEST 1	TEST2	TEST3	Average	Rounded	Average	honors	grades
2	Allen	89	78	89	85.33333	8	35	NO	В
3	Borlin	67	56	66	63	6	i3	NO	D
4	Catlin	78	76	76	76.66667	7	7	NO	С
5	Dorsey	56	34	45	45	4	5	NO	F
6	Eugene	26	100	99	75	7	' 5	NO	С
7	Finneran	99	98	97	98	98		YES	Α
8	Greco	78	87	88	84.33333	8	34	NO	В
9									