

Quiz 11

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The screenshot below shows a part of the dataset of the monthly benchmark test. This dataset includes 104 students with answers of each question. There are 29 number of questions.

	A	B	C	D	E	F	G	H	I	J
1	FirstName	Section	Grade	1_01	1_02	1_03	1_04	1_05	1_06	1_07
2	Stud_1	6C		6 d	B	c	b	d	a	b
3	Stud_2	6C		6 C	B	c	b	d	B	b
4	Stud_3	6C		6 C	B	d	d	d	a	c
5	Stud_4	6C		6 b	a	c	b	a	c	A
6	Stud_5	6C		6 b	B	d	b	C	B	A

The variables of this dataset are given with brief explanations below.

A column: De-identified names of students

B column: The sections (classes) that students come from.

C column: 6th grade students.

D-AF columns: Questions of the test.

Uppercase letter: Correct answer

Lowercase letter: incorrect answer

Empty or any other character: No answer (missing)

- 1) [100 pts] Using Python and the spreadsheet above, build and display a DataFrame with the following columns:

"Total Correct Answers": The total number of correct answers for each student.

"Total Incorrect Answers": The total questions answered wrong,

"Total Missing Answers": The total questions missed or any other character.

"Success Rate": Total Correct Answers/total number of questions

"Failure Rate": (Total Wrong Answers + Total Missing Answers)/total number of questions

Submit your Python source codes and input/output screenshots in a single word or pdf document.