Revision Activity for Term 4 Final Grade 8 ICT Examination Grade 8 Excel Practical Review

For this revision, you will be examining a dataset related to pupils. Ensure that you follow the instructions to the letter and accomplish the duties in the allotted columns.

Procedures:

1. Within the "Age" column, ascertain the age of each pupil by subtracting their Date of Birth from today's date.
2. Combine the pupil's first and last names in the "Full Name" column.
3. Compute the square (exponent of 2) of each student's Maths mark in the "Maths Squared" column.
4. Count the total number of students in the class in a new cell below the "Student ID" column.
5. Display the first three characters of the pupils' surname in the "Initials" column.
6. In the "Modified Name" column, replace the first character of every first name with "Z".
7. Calculate each pupil's average mark based on their five subjects in the "Average Grade" column.
8. If a pupil's average mark is above 80%, they are "Excellent", if it is between 70% and 80%, they are "Good", otherwise they are "Average", in the "Grade Rating" column.
9. If a student has more than 80% in Maths AND Science, they are a "STEM Star", as displayed in the "STEM Star" column.
10. If a student scores over 80% in either Sports OR Arts, they are an "Arts/Sports Star", as displayed in the "Arts/Sports Star" column.
11. If a student scores over 75% in English AND their average mark is over 75%, they are a "Language Star", as shown in the "Language Star" column.
12. In a new cell below the "Maths (%)" column, calculate how many students scored above 85% in Maths.
13. Compute the number of days until the student's next birthday in the "Days until Birthday" column.
14. Calculate the total of all marks for each pupil in the "Total Score" column.
15. Calculate the percentage increase from 50% to their current Maths mark in the "Percentage Increase in Maths" column.
16. Replace "Star" with "Achiever" in the "STEM Star", "Arts/Sports Star", and "Language Star" columns and display in the "New Achiever Column".
17. Create a unique identifier by combining Student ID, First Name, and Last Name in the "Unique ID" column.
18. Count how many students are "Average", "Good", and "Excellent" in the "Grade Rating Count".
19. Calculate the length of each student's last name in the "Last Name Length" column.
20. Calculate the square (exponent of 2) of each student's English mark in the "English Squared" column.

Checklist:

Make sure you've completed the following duties before turning in your project:

• Calculated Age

• Created Full Name

• Calculated Maths Squared

• Counted Total students

• Created Initials

• Created Modified Name

• Calculated Average Grade

• Created Grade Rating

• Identified STEM Star

• Identified Arts/Sports Star

• Identified Language Star

• Counted students with Maths mark above 85%

• Calculated Days until Birthday

• Calculated Total Score

• Calculated Percentage Increase in Maths

• Replaced 'Star' with 'Achiever' in the "New Achiever Column"

• Created Unique ID

• Counted students in each Grade Rating category

• Calculated Last Name Length

• Calculated English Squared

This revision activity is evaluated at 20 marks (1 mark per task) and should be finished within 30 minutes. Best of luck!