Academic Excellence Journey Of Career Grow

A Tale of Achievements and Grades

Note to reader

Career Grow in an institute where the students are getting prepared for their future. We take some students' data which is used for our project.

Across the project, we used the same data set for our three different formulas. Here we are presenting the same result but in three different ways. As we all know excel is the piler of all data industry. So here we are introducing that dynamic side of Excel throughout the project.

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Grading input

Career Grow's student result data are based on some grading method. This grade will help you to understand the student's progress and their academic achievements across a spectrum of scores. Here's the breakdown of the grading system.

Group details	
Marks Group	Grade
10-29	D
30-49	C
50-69	B
70-79	A
80-89	A+
90-100	AA

Our grading formula explanation

If Function	Look-up Function	Match Function
• At the core of our formula is the **IF** function, a powerful tool in Excel that allows us to apply conditional logic.	• Our formula relies on the **VLOOKUP** function, a robust feature in Excel for looking up values in a table and returning a corresponding result.	• Our formula kicks off with the **MATCH** function, a versatile Excel feature for finding the position of a value in a range.
• The formula is used for this function is : IF("cell reference">=90, "AA", IF(F3>=80, "A+", IF(F3>=70, "A", IF(F3>=50, "B", IF(F3>=30, "C", "D")))))	• The formula is used for this function is : IFERROR(VLOOKUP ("cell reference", {0,"D";30,"C";50,"B";70,"A";80,"A+";90,"AA"}, 2, TRUE), "Invalid")	• The formula is used for this function is : IFERROR(CHOOSE(MATCH("cell reference", {0,30,50,70,80,90}, 1), "D", "C", "B", "A", "A+", "AA"), "Invalid")

Grading with IF function

If the function is one of the primary functions in the Excel tool. This function is very simple to explain and useful. Here we are using this **IF** formula with multiple nested **IF** statements and creating a step-by-step evolution.

fx =IF(G6>=90, "AA", IF(G6>=80, "A+", IF(G6>=70, "A", IF(G6>=50, "B", IF(G6>=30, "C", "D")))))

Marks details of the students		Formula 1
Students Name	Achived Number	Grade with only IF
Aryan Sharma	78.5	A

Grading with LOOK-UP function

The look-up function is the advanced level of the Excel tool. This function helps to search the look-up value for the given cell from the other table. We are using the **V-LOOKUP** function for this calculation.

The **VLOOKUP** function searches for the achieved number (in cell G6) within the first column of the lookup table.

f_x =IFERROR(VLOOKUP(G6, {0,"D";30,"C";50,"B";70,"A";80,"A+";90,"AA"}, 2, TRUE), "Invalid")

Marks details of the students		Formula 2
Students Name	Achived Number	Grade with If and V-Lookup
Aryan Sharma	78.5	A

Grading with MATCH function

Our third and final function is the **MATCH** function. This function is one of the dynamic and versatile features. In this calculation, we are using a combination of **MATCH** and **CHOOSE** formulas for dynamic grading experience.

By combining the power of **MATCH** and **CHOOSE**, we've created a flexible grading formula that dynamically selects grades based on achieved numbers. The **IFERROR** adds a layer of reliability, making our grading system robust and error-tolerant.

fx =IFERROR(CHOOSE(MATCH(G6, {0,30,50,70,80,90}, 1), "D", "C", "B", "A", "A+", "AA"), "Invalid")

Marks details of the students		Formula 3
Students Name	Achived Number	Grade with Iferror, Match and Choose
Aryan Sharma	78.5	A

Analytical Explanation

➢ **Formula 1- Decision Tree Logic - Strategic Precision :**

The first formula **IF** works like a decision tree, just like making smart decisions in business. It's adaptable and precise, which is important for handling changes in a fast-paced business world.

➢ **Formula 2 - Efficient Lookup - Data-Driven Insight :**

VLOOKUP is like looking up information quickly in a book. It's similar to how businesses need accurate and fast information to make smart decisions.

➢ **Formula 3 - CHOOSE-MATCH Logic - Scalability and Customization:**

The third formula, with its **CHOOSE-MATCH** logic, offers scalability and customization, aligning with the adaptability and flexibility essential for business strategies.

Conclusion

We are grateful to the Career Growth for sharing the student's data. With the help of the data, we can discuss three different formulas in detail. Our goal was for one query we will use three different formulas and get the same answer.