1. **New or Calculated Columns**

**Data Link :** [Student Details\_DAX.xlsx](https://docs.google.com/spreadsheets/d/1tTDquN54lWSoLoyZ3EkTs_ceF8F5Tklw/edit?usp=drive_link&ouid=116581504019999500009&rtpof=true&sd=true)

1. Add New Column Marks Obtained.
2. Add New Column Total Marks = 80
3. Add New Column % Marks
4. Add New Column Check
   1. Group = ‘CS’
   2. Group <> ‘CS’
   3. when Subject = ‘Physics’’ and % Marks > 80%
   4. % Marks > 80% and Subject = ‘Physics’’ or Subject = ‘Math’
   5. % Marks > 80% and Subject = ‘Physics’’ or Subject = ‘Math’ or Subject = ‘Chemistry’
5. Add New Column Full Name

**Key Points:**

* **DAX : Data Analysis Expression**

DAX formulas include functions, operators, and values to perform advanced calculations and queries on data in related tables and columns in tabular data models.

1. **Calculated column :** evaluated for each row of data, data is actually stored
2. **Calculated Measures :** Data is not actually stored, in reports it calculates formula at background

* **Data Types:**

whole number(integer), decimal, string, Boolean, date/time, currency, blank, table

* **Operators:**

1. Arithmetic : +, -, \*, /, ^
2. Comparison : =, == (exact), <, <=, >=, <>
3. Text Concatenation : &
4. Logical **:** &&, || (or), in