# Optional Assignment 7

*Student Info*

Open the file T2 - Student Info

The Students tab is a list of the students taking the *Culinary Appreciation* course, each of whom also makes a donation towards food for a homeless charity (if only so we can practice using the SUMIF function!). You are going to process this data to find out 'useful' information.

1. We need to know if a student has passed, so Students column H is prepared for this. The pass mark is set on the Admin tab, cell B2. To make it easier to use this value, make this cell a named range called *passMark*.

2. Back on the Students sheet:

   a) In cell H2 enter an IF function that will display "Pass" if the mark in column F is *greater than or equal to* the value in *passMark*, or "Fail" if it isn't.

   b) Copy this function down the column - it should replicate correctly.

   c) Try changing the value in *passMark* (on Admin) to see the change in Students column H.

3. To make it easier to work with the columns of data on the Students tab, make them into named

ranges as follows: All of column D – *module*

All of column E – *year*

All of column F – *mark*

All of column G – *donation*

All of column H – *result*

Now we'll use these to process the Student's data - you'll need to switch to

the Admin sheet for this. 4. In cell B6:

   a. Use a COUNTIF function to find how many students are taking the *Pies* module. Use the named range you defined for the module column and although you could 'hard code' the word Pies into the function for the criterion, it's better to reference it from Admin cell A6.

   b. Copy this function down for the other 3 modules - it should replicate OK.

5. Complete the cells for *Donations total, Average marks* and *Number of passes* using appropriate conditional functions. There are some subtle hints in row 11, but note that the *Number of passes* needs two criteria - you're looking for the correct module (pies etc) and also for the word Pass in the Result column - that's why it needs the plural version *counties*.

6. In Admin!F6:F9 calculate the *Pass rates* - the proportion of passes against the number of students

taking the module (a simple division, formatted as a percentage).

7. Try changing the *Pass mark* again (Admin!B2) to see the effect this has on these calculated results.

8. Now the hardest bit: The group of cells Admin!B17:E20 are very similar to the first set, except this time the year group shown in B14 needs to be used as an additional criterion, so only results for this year are shown (changing the year should change the results). This means that all the functions need to use their 'plural' versions.

9. Include the pass rates in column F as before.