

Exercise 1

Create a user-defined function that returns the percent that one number is of another.

For example, if the first argument is 8 and the second argument is 10, the function should return the **string** "80.00%".

The function should solve the "integer division" problem by allowing you to divide an integer by another integer, and yet get an accurate decimal result.

Hints:

- Remember that you can implicitly convert an integer to a decimal by multiplying it by 1.0.
- You can format a decimal (say, 0.1) as a percent (10%) with the following code: **FORMAT(0.1, 'P')**.
- Remember that the the return value of the function should be a text string.

Exercise 2

Store the maximum amount of vacation time for any individual employee in a variable.

Then create a query that displays all rows and the following columns from the AdventureWorks2019.HumanResources.Employee table:

- BusinessEntityID
- JobTitle
- VacationHours

Then add a derived field called "PercentOfMaxVacation", which returns the percent an individual employees' vacation hours are *of the maximum vacation hours for any employee*.

For example, the record for the employee with the most vacation hours should have a value of 100.00%, in this column. The derived field should make use of your user-defined function from the previous exercise, as well as your variable that stored the maximum vacation hours for any employee.