HOMEWORK 06

QUESTION: Using the following categories and the "Decision Tree Data" table in the Exercises section of Chapter Six/eight, discretize salary and age variables and solve problems 5 Chapter Six/eight (Decision Tree Chapter). Show only the first split.

Salary Categories

Less than $35000	= Level 1
$35000 to less than $45000	= Level 2
$45000 to less than $55000	= Level 3
Above $55000	= Level 4

Age Categories

Less than or equal to 30	= Category 1
Greater than 30 but less than or equal to 40	= Category 2
Above 40	= Category 3

REFERENCE

TABLE E6.4 Decision Tree Data

Occupation	Gender	Age	Salary
Service	Female	45	$48,000
	Male	25	$25,000
	Male	33	$35,000
Management	Male	25	$45,000
	Female	35	$65,000
	Male	26	$45,000
	Female	45	$70,000
Sales	Female	40	$50,000
	Male	30	$40,000
Staff	Female	50	$40,000
	Male	25	$25,000

Construct a classification and regression tree to classify *salary* based on the other variables. Do as much as you can by hand, before turning to the software.