

# 01 EA - Categorical variables

Grading criteria (16 points)

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## Exercises 1 - 3 (6 points)

Exercises 1-3 will be graded out of 2 points. You will earn 2 points for a well-written answer that is mostly correct, 1 point if there is some significant error in the writing or calculation, and 0 points if the problem is largely incomplete.

## Exercise 4 (4 points)

### Part I: Contingency table

You will earn 1 points if the code outputs correctly, 0 points if the code contains significant error.

### Part II and III: Conditional probabilities and its interpretation

You will earn 3 points for a perfect answer: solution is both correct and well-written.

- The mathematical notations for conditional probabilities are correctly used
- The calculation for conditional probabilities are correct
- The writing is clear and in complete sentences
- The organization of the answer is clear and easy-to-read.

You will earn 2 points if your solution is mostly correct, with some small mathematical/statistical errors. OR The solution is correct but the writing has some small flaws, such as missing the mathematical notations for conditional probabilities.

You will earn 1 point if your solution has some more serious flaws, such as a conceptual error. OR The writing has more serious flaws (for example not written in sentences).

You will earn 0 point if your solution is largely incomplete, or more seriously flawed in both writing and correctness.

## Exercise 5

The answer to Exercise 5 has been provided on the introduction page to the assignment. Hence, this exercise does not count towards your grade.

## Exercise 6 (6 points)

### Part I: Contingency table

You will earn 1 points if the code outputs correctly, 0 points if the code contains significant error.

### Part II: Conditional probabilities

You will earn 3 points for a perfect answer: solution is both correct and well-written.

- The mathematical notations for conditional probabilities are correctly used
- The calculation for conditional probabilities are correct
- The writing is clear and in complete sentences
- The organization of the answer is clear and easy-to-read.

You will earn 2 points if your solution is mostly correct, with some small mathematical/statistical errors. OR The solution is correct but the writing has some small flaws, such as missing the mathematical notations for conditional probabilities, or solution is not organized in a clear and readable way.

You will earn 1 point if your solution has some more serious flaws, such as a conceptual error. OR The writing has more serious flaws (for example not written in sentences).

You will earn 0 point if your solution is largely incomplete, or more seriously flawed in both writing and correctness.

### **Part III: Interpretation of results**

You will earn 2 points for a well-written answer that is mostly correct, 1 point if there is some significant error in the writing, and 0 points if the problem is largely incomplete.