

Class 12

Team Assignment

Barcelona Real Estate Case

General instructions

- This assignment is covered under the Honor Code of the Fuqua School of Business at Duke University.
- This assignment is due by the deadline listed on the course website. Except for the submission deadline, there is no time limit to complete the assignment.
- This is a team assignment. The work for this assignment is to be your team's effort alone, without consultation or assistance from anyone who is not a member of your team. Each team is to work independently.
- Each member of the team receives the same grade on the assignment.
- This assignment is open books and open notes. You can only access the material that is intended for this course and that is made available through the course website and the course packet, as well as your notes. You are not permitted to obtain any course materials (including handouts, readings, assignments, etc.) or any solutions from other Fuqua students or any other source.
- You may use a laptop in performing calculations. However, when requested by the question, you are expected to include intermediate steps as well as references to the formulas used.
- Your answers must be succinct, yet clear and articulated. Justifications that support your conclusions are required. There is no need to rewrite the assignment statements and questions. Make sure, however, to indicate to which question each of your answers refers to.
- Your submission must consist of one pdf document (**2 pages max**) with a detailed header including
 - course name,
 - section and team numbers, and
 - the names and the NetIDs of all team members listed in alphabetical order by last name.

Further submission requirements might be put in place for specific questions. Such requirements will then be described in the question they apply to.

- The submission is online on the course website.
- Late or missing submissions will receive no credit.

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Assignment

The data file BarcelonaRE_Data contains data on prices and characteristics of 413 residential properties in Barcelona (see the spreadsheet 413 properties for analysis). Your team assignment is to price additional 200 residential properties in Barcelona whose characteristics are in the file PriceSubmission (also included in the spreadsheet 200 properties to be priced of the data file BarcelonaRE_Data). You should submit your price predictions and a pdf document (2-page max) that describes your thought process.

1. (15 points) Submit your 200 (team) price predictions on the course website by entering your predictions in the yellow cells of the file PriceSubmission.
 - Note on the grading of this question: This question will be graded by sorting submissions according to the average of the squared errors of your price predictions for the 200 properties that you need to price. The actual price of each of the 200 properties is known (these 200 properties and 413 properties with prices come from the same dataset) and will be used to determine the average of the squared errors of your predictions. The smaller your average of the squared errors is, the higher your score will be.
2. (5 points) Upload a pdf document (2 pages max) describing your modeling choices and approach. The document should include a detailed header on the first page with
 - course name,
 - section and team numbers, and
 - the names and the NetIDs of all team members listed in alphabetical order by last name.