

Ateneo de Manila University
Department of Quantitative Methods and Information Technology

Certificate of Authorship

Instructions

- Accomplish the document completely
 - Save the document as a .pdf file with the following name format:
<IDNumber>_<RequirementTitle>_COA (e.g. 12345_Assignment1_COA)
 - Attach this document to each course requirement submission unless otherwise specified by the Course Instructor
-

Certification

I hereby certify that the submission described in this document abides by the principles stipulated in the student handbook.

I further certify that I am the author of this submission and that any assistance I received in its preparation is fully acknowledged and disclosed in the documentation.


I have also cited all sources from which I obtained data, ideas, or words that are directly copied or paraphrased in this document. Sources are properly credited according to accepted standards for professional publication.

I am aware that any potential case of plagiarism or cheating (similar code) regarding my submission merits a 0 for the requirement and a disciplinary case filed to the Discipline Committee of the Loyola Schools.

Sources:

- https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.pivot_table.html
- <https://stackoverflow.com/questions/12680754/split-explode-pandas-dataframe-string-entry-to-separate-rows>


Student and Course Information

Course Code & Section	ITMGT 25.03-H
Course Instructor	Mr. Ataiza
Student's Full Name	John Lloyd P. Balaong
Signature	

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Sources (cont.)

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