

Project instructions:

Please read this instruction carefully.

Each group of students should collect a published data set. There are many approved websites that allow collecting data. The data that you will collect should be appropriate for the aims of the project that you have proposed. The data set should include one dependent variable, at least 6 quantitative explanatory variables, and at least 2 qualitative variables that one of them has more than 2 levels. The dependent variable should be selected so that one of the methodologies studied in this course can be applied. The data set should include more than 100 observations. Sample size, number of explanatory variables, presentation, clear and useful aims of the project, the quality of the analysis, and the quality of the final report are criteria of grading the project. Please remember that the variables that you select should make sense before attempting to fit any statistical model.

When you identified the data and the variables that you want to analyze, write a short and clear proposal (maximum 2 pages in word format) on the definition of the variables, source of data, and the aims of the project. The proposal should include the names and the student numbers of the students in the group. Send the proposal to me through email by **October 8**. Please note that any communication about the project with me should be copied to the members of the group. After my approval you will start collecting and analyzing the data.

The result of the project should be presented in class during the **last two classes** of the semester. The exact time of the presentations will be announced later. The final report of the project should be sent to me by email on the due date. The due date for submission of the project is **November 29**. The project report should be organized and typed in Microsoft Word using font 12. The project should not exceed **10 pages**, excluding the computer outputs that should be reported as appendix. The data should be organized in Excel Worksheet with complete explanation of the variables and sources and be sent together with the final project. The report should include (but not limited to) the following sections:

- Cover page
- The goal of the project
- Description of data
- Explanation of the methodology you used
- Computer results (related output should come at the end of the report)
- Interpretation of the computer output
- Conclusion

All members of the group are expected to participate in all steps of the project. I may interview individual member of a group about the performance and the result of the project. Normally all members of a group should receive equal

scores. But based on my possible interview the scores may be different in a group.

Any email to me, about the project, should be first discussed in the group and the sender should copy the email to other members of the group. The title of the email should be Project271_G? (? is the number of your group. For example for group 1 the title is Project271_G1.)

Important note: Late submission of the proposal receives zero mark. Late submission of the final report of the project will not be accepted and receives zero mark.

Sources: Here are some reliable websites for collecting published data that may be helpful. If you decide to use any other reliable sources for collecting the data please consult with me.

- Information of statistics in Canada
<http://www.statcanada.ca>
- Information on population control and economic growth
<http://data.worldbank.org/>
- Information on a variety of sports
<http://cbs.sportline.com>
<http://baseball-reference.com>
<http://sportsillustrated.cnn.com>
<http://www.ncaa.org>
<http://www.nfl.com/stats>
- Information on federal agencies
<http://www.fedstats.gov>
<http://www.bls.gov/cpi>
<http://www.cdc.gov/brfss>
<http://www.cdc.gov/nchs>
<http://www.census.gov>
- Information on colleges and universities
<http://www.collegeboard.com>
<http://www.act.org>
<http://www.clas.ufl.edu/au>
- The national centre for educational statistics website
<http://nces.ed.gov>
- Information about movies
<http://www.the-numbers.com>
<http://www.boxofficemojo.com>
<http://www.imdb.com>
<http://www.rottentomatoes.com>
- Panel study for dynamic income
<http://simba.isr.umich.edu/data/data.aspx>