

STATISTICAL LABORATORY

Lecture 2: Exploratory Data Analysis (Practice)

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Applied Mathematics for Economics and Management
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Exercise 1.9

What is the general procedure underlying empirical research in the fields of Economics and Management?

Exercise 1.10

Provide examples of databases available for conducting empirical research in the fields of Economics and Management.

Exercise 2.1

For quality-control purposes, the product is shipped in boxes of six units. A simple random sample without replacement of 40 boxes is drawn from the lot. For each box, the number of defective units is recorded. The observed sample is:

2, 0, 1, 3, 0, 3, 6, 4, 5, 3, 0, 1, 0, 3, 2, 0, 1, 0, 2, 3, 1, 0, 3, 0, 1, 0, 0, 1, 5, 6, 0, 2, 5, 1, 0, 3, 0, 2, 3, 0

- a) Define the statistical unit and the variable under analysis, and classify the variable.
- b) Present the frequency table.
- c) Provide a graphical representation of the data.