

Formative Assessment 1

The UK academic world is an example of international cooperation and exchange. This problem is concerned with modelling of a database schema that contains information on researchers, academic institutions, and collaborations among researchers. A researcher can either be employed as a professor or a lab assistant. There are three kinds of professors: lecturer, senior lecturer, and full professor. The following should be stored:

- For each institution, its name, country, and inauguration year.
- For each institution, the names of its schools, e.g., School of Law, School of Business, School of Computing Science... A school belongs to exactly one institution.
- For each researcher, his/her name, year of birth, and current position (if any).
- An employment/position history, including information on all employments (start and end date, position, and what school).
- Information about co-authorships, i.e., which researchers have co-authored a research paper. The titles of common research papers should also be stored.
- For each researcher, information on his/her highest degree (BSc, MSc or PhD), including who was the main supervisor (professor), and at what school.
- For each professor, information on what research projects (title, start date, and end date) he/she is involved in, and the total amount of grant money for which he/she was the main applicant.

Propose a **relational schema** for the abovementioned description by submitting a 1-page PDF file.