

## SUBMISSION INSTRUCTIONS

This Assignment will require you to understand written requirements for a database. You then will need to translate those requirements into an ERD and write the appropriate SQL statements to create the required tables.

There are two deliverables to this assignment. The ERD for the database and the SQL statements to create the database tables. Your deliverables (see below) should be uploaded to D2L dropbox.

***Submission file for SQL should be named as follows (include diagram in this file):***  
*DATA1201\_termyear\_A2\_mybvcusername.pdf*

***SQL script should be named as follows:***  
*DATA1201\_termyear\_A1\_mybvcusername.sql*

***All files should identify the author with the following information:***

*Course code : DATA1201*

*Term/Year : TermYear*

*Assignment code: A2*

*Author :*

*BVC username :*

*Date created : YYYY-MM-DD*

*Description :*

## Instructions

You are hired to create a database for a research conference. They want to keep track of information regarding the different researchers participating in the conference. A researcher can be a professor, a post doctorate, a PhD student or a research assistant. The professor can be either assistant, associate or a full professor. They want also to include information about the different affiliated academic institutions and collaboration among researchers. You should include the following information in your database:

- For each researcher, his/her name, year of birth, and current position (if any).
  - 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 Computer Science ... etc.). A school belongs to exactly one institution.
  - For each publication, its title, author(s) and abstract.
  - Information about collaboration among researchers, 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) and at what school they belong to.
  - For each professor, information on what research projects (title, start date, and end date) he/she is involved in, what school they work in and the total amount of grant money for which he/she was the main applicant.
1. Draw the ERD diagram for this database. Make sure you indicate the cardinality constraints. If you make any assumptions regarding the design state it with your diagram.
  2. Write the SQL statements to create the tables in your design. Make reasonable choices of data types. Don't forget to include constraints like primary and foreign key.

## Rubric

Deliverables	Mark
Entities	20
Relationships	20
Cardinality of relationships	10
SQL scripts	50

Penalty for missing requirements/instructions: 5% for each infraction.  
Evidence of code generation will result in 0 (zero) for the whole assignment.  
Failure to properly disclose your sources will negatively affect your mark. Penalty starts at 10%.

File submissions are not accepted after the assignment submission due date.  
Submissions to the wrong assignment D2L dropbox will be ignored.

**If any part of the assignment is deemed to be not original (plagiarized)  
EVERYBODY involved will receive 0 (zero).**

**\*\*\* end of assignment**