Tutorial 3: SQL

Question 1. Print the department and faculty of the students.

Question 2. Print the different pairs of department and faculty of the different students.

Question 3. Print the different emails of the different students.

Question 4. Print the name of the students who borrowed a book in English together with the title of the book. Use a cross join.

Question 5. Print the name of the students who borrowed a book in English together with the title of the book. Use an inner join.

Question 6. Print the different names of the students who borrowed a book.

Question 7. Print the different names of departments that belong to two faculties.

You notice that the initial design unnecessarily repeats the faculty to which a department belongs for each student in the department. Let us make sure different faculties do not have departments with the same name.

Let us modify this redundant schema.

Question 8. Create a table `department` with two columns, one for the department and one for its faculty. The department is the primary key if the table. Insert all the departments and their faculties in this table using a single SQL command. When done, drop the faculty column from the student table. Finally, add the corresponding foreign key constraint.