

Homework: Data Integrity

Task

To avoid invalid states of a database several mechanisms are available which are managed by the DBMS.

Methods to retain or ensure integrity of data and relations are

- do not allow **NULL** values
- checking the value domain of attributes
- use a primary key
- checking referential integrity

These different methods are in the focus of this exercise, try to practiced them using the students' database.

- Adding a new student without specifying it's given name and name makes no sense. To avoid this, alter table **students_2016**.
- In your table **students_2016** you can put any character in the row gender. Restrict this possibility and ensure that only **f** or **m** are allowed as valid input if you add a new student. (Constraint)
- Make sure, that the age of the student's is between 17 and 60 years.
- Select most often practiced hobbies and list them dependent on students' nationality
- Create a table **HOBBIES** where you copy all the hobbies of the students (from table **students_2016**) into this new table and make sure that you afterwards still can connect the hobbies to the right person.

Therefore, you can change the table **students_2016** the way you need it.

Please, submit the homework till 8th December 2016, 23:59 o'clock.