Database Systems FS21

Project Coursework (Milestone 2)

Deadline: Sunday, 4 July, midnight

The goal of the second part of your project is to

1. translate your ER-diagram into a relational schema and implement the schema in SQL;

2. fill the tables in your database with some example data;

3. remove all tables from your database.

In the following, we describe the individual steps in more detail.

1 Translation into Relational Schema

Transform your ER diagram into a relational schema. Write an SQL script with the commands to create the tables of your database (an SQL script is a text file with SQL commands separated by semicolon).

Your table definitions should include:

1. suitable types for the attributes with default values where appropriate;

2. the primary key;

3. foreign key constraints and the rules for update and deletion where appropriate;

4. any other constraints.

Note: Take the feedback for your ER diagram in Milestone 1 into consideration.

Comment your script and explain the rationale behind the definition of your constraints. Use double hyphen (`-- comment `) for single-line comments and C-language style slash and asterisk (`/* comment */`) paired delimiters to delimit single-line or multiple-line comments.

Deliverable: SQL script `create.sql` that creates all tables as described above.

2 Loading Data

Load data into your database using `INSERT` statements. Pay attention to insert records in correct order w.r.t. foreign key constraints.

Deliverable: SQL script `load.sql` that loads data into all your tables.

3 Removing Tables

Remove all tables from your database.

Deliverable: SQL script `clean.sql` that removes all tables created by `create.sql`

Deadline and Submission

Please submit your work via e-mail no later than Sunday, 4 July, midnight to helmer@ifi.uzh.ch