

# C019-320302

## Databases & Web Services

### Assignment 3

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#### 0. Logistics

The service should be developed on ClamV machine *clabsql.clamv.jacobs-university.de* (IP: 10.72.1.14). You should have a login there via your regular university credentials. If the login had to be established for the course you will receive credentials in the next class unit. Should you then still not have a login, contact Dr Achim Gelessus, [A.Gelessus@jacobs-university.de](mailto:A.Gelessus@jacobs-university.de).

#### 1. ER Diagram

Develop an ER diagram of the miniworld underlying your project. Argue how the data structures support the interactions in the functionality specification from the previous assignment.

Deliverable is (i) an ER diagram, possible augmented with information not expressible in ER, and (ii) text describing the connection between your Web service offering and this schema.

#### 2 Logical Database Schema

Convert the schema diagram of your project into an SQL schema (i.e. develop the 'CREATE TABLE' DDL statements), including any constraints your model might have. Test this schema under MySQL.

**Note:** Your schema should contain at least  $4 * N$  entity sets plus  $N$  ISA hierarchies where  $N$  is the number of members in your team.