

Introduction to Databases

Homework 2

This set of exercises will be helpful in preparing for the exams. They are intended to encourage you to become familiar with the entity-relationship approach to high-level database design.

Due to a lack of TA resources for this course, this homework will not be handed in or graded.

The textbook exercises are given at the end of the section of interest.

1. Basic Relational Model: Textbook exercise 2.2.1
2. ER to Relational: Textbook exercise 4.5.1
3. ER to Relational: Textbook exercise 4.5.3
4. Functional Dependencies: Textbook exercise 3.1.1
5. Functional Dependencies: Textbook exercise 3.2.1
6. Normalization to BCNF: Textbook exercise 3.3.1(a) and (b)
7. Normalization to 3NF: Textbook exercise 3.5.1 (for (a) and (b) from 3.3.1)
8. Multivalued Dependencies: Textbook exercise 3.6.3 (a) and (b)