# LU03.A03 - ERM: SchoolGrades\_DB

### **Prerequisites**

Work type: Peer

• Means of aid: only teaching materials, no websearch, no use of ai.

• Timeframe: 15 Minutes

• Expected result: A Word/PDF file with an ERM that visualises the given business case.

#### Introduction

In order to store business data efficiently we need a structure that should match the needs of the requirements. The first step is generally to analyse the business case and build up our data structure.

#### Given business case

You are assigned of designing a database to manage the students' grades and the subjects they attend.

- each student is attending several subjects
- for each subject the student receive a grade
- each subject can be attended by several students

### Task: Design a ERM

Analyse the given business cases and design an ERM that meets the requirements of the business cases below.

- 1. Identify the entities (tables)
- 2. Determine the attributes of each table, including the primary keys
- 3. Connect the base tables by adding ralations to your data model
- 4. Determin the cardinality of the tables involved.

## **Solution**

Lösung

### **Vocabulary**

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English	German
prerequisite	Grundvoraussetzung



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13:53

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