

# LU04.S06 - ERM vs. ERD

## Prerequisites

- Work type: Peer
- Means of aid: only teaching materials, no use of ai.
- Timeframe: 5 Minutes
- Expected result: A Word/PDF file with an a comparison of the terms ERM vs. ERD.

## Task

Compare both terms, ERM and ERD, and describe the purpose of each, and find at least 2 similarities and 2 differences.

### ERM

- Description: First step to find the entities and the correlations between them.
- Purpose: Blueprint of the business cases

### ERD

- Description: Identification of details, such as data-types, relation-table and the cardinality
- Purpose: construction plan, ready to build up the data-base physically

### Similarities

- Both notation methods are used to describe the data-base structure of the business cases
- Entity = rectangle
- Cardinalities: 1:1, 1:n, n:m
- Entities have attributes

### Differences:

- Relations:
  - ERM: rhomb
  - ERD: relation-table
  - ERD: Described in the Crow's foot notation
- Attributes:
  - ERM: bubbles above, which are connected with the entity
  - ERD: As details in the Entity, including data-type
  - ERD: Memory amount is described within the data-type definition

## Vocabulary

| English      | German                  |
|--------------|-------------------------|
| prerequisite | Grundvoraussetzung      |
| given        | gegebene, vorausgesetzt |

| English   | German  |
|-----------|---------|
| blueprint | Entwurf |



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