

# LU03.A07 - ERD: Reengineering from the database

From time to time, we may need to analyze an existing database in order to optimize the structure, e.g. for the next software version.

## Prerequisites

- Work type: Peer
- Means of aid: [W3Schools-SQL-Editor](#)
- Timeframe: 60 Minutes
- Expected result: ERD as a PDF-File, that describes the content of the given date-base in Crow's Foot Notation.

## Task

Go to the W3Schools-Website, to the SQL-Editor, and analyze the existing data-structure. Create furthermore an ERD, that describes the existing data-structure in the Crow's Foot Notation.

| Tablenames                   | Records |
|------------------------------|---------|
| <a href="#">Customers</a>    | 91      |
| <a href="#">Categories</a>   | 8       |
| <a href="#">Employees</a>    | 10      |
| <a href="#">OrderDetails</a> | 518     |
| <a href="#">Orders</a>       | 196     |
| <a href="#">Products</a>     | 77      |
| <a href="#">Shippers</a>     | 3       |
| <a href="#">Suppliers</a>    | 29      |

1. Identify all enties
2. Add to each entity the attributes and the corresponding data-types
3. Put the tables in relation to each other by analysing the primary-keys and the foreign-keys.

## Solution

[Lösung](#)

## Vocabulary

| English      | German             |
|--------------|--------------------|
| prerequisite | Grundvoraussetzung |

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| English            | German                  |
|--------------------|-------------------------|
| given              | gegebene, vorausgesetzt |
| to be commissioned |                         |



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