

LU04.A07 - ERD: Reengineering of an existing 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: 45 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.

The screenshot shows a web browser window with the URL https://www.w3schools.com/sql/trysql.asp?filename=trysql_editor. The page contains a SQL editor with the following content:

```
SQL Statement:
SELECT * FROM Customers;
```

Below the SQL statement, there is a button labeled "Run SQL »". To the right, there is a table titled "Your Database:" showing the following data:

Tablenames	Records
Customers	91
Categories	8
Employees	10
OrderDetails	518
Orders	196
Products	77
Shippers	3
Suppliers	29

A large red arrow points from the "Get your own SQL server" button at the top right towards the "Your Database:" table.

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

Solution

Lösung

Vocabulary

English	German
prerequisite	Grundvoraussetzung

English	German
given	gegebene, vorausgesetzt



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