

# LU04.S07 - ERD: Reengineering of an existing database

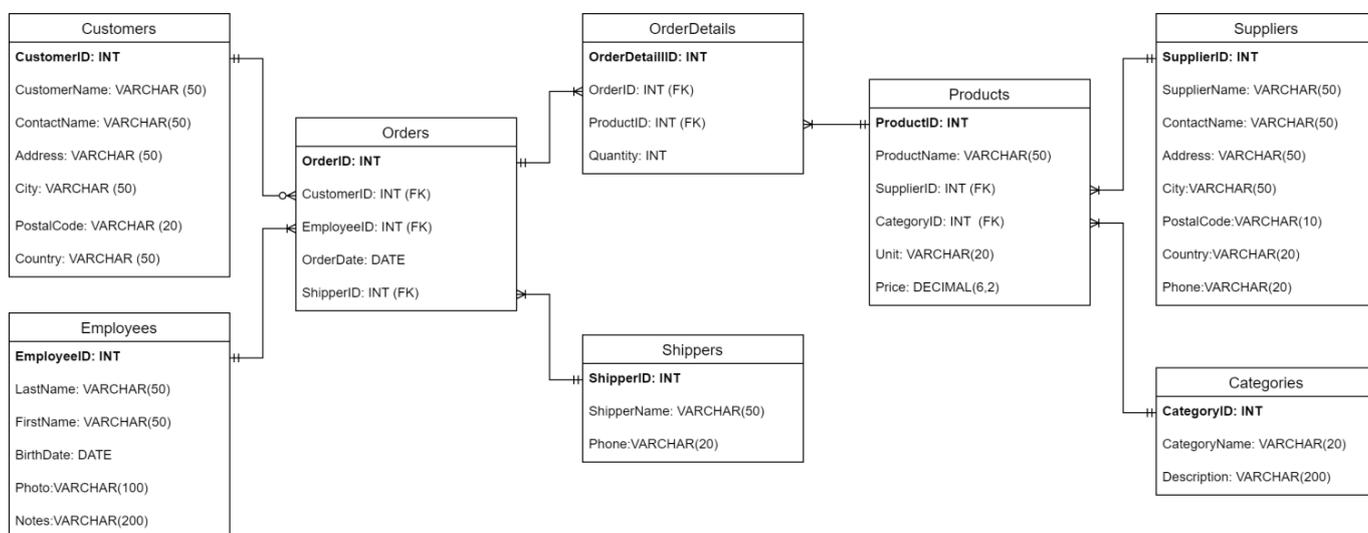
## Task

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.

## Suggested approach

1. We beginn the diagramm by identifying the entities. these are tables without any foreign keys:
  - o Customers
  - o Categories
  - o Employees
  - o Shippers
  - o Suppliers
2. Then we determine the attributes and the data-types of each entity (-table).
3. We continue with the analysis of the relations. These are tables, which have foreign keys in their attribute list.
  - o Orders
  - o OrderDetails
  - o Products
4. Finally, we connect the tables with each other in the right fashion and determine the cardinalities (1:1, 1:n, n:m)

## Solution



## Vocabulary

| English            | German                  |
|--------------------|-------------------------|
| prerequisite       | Grundvoraussetzung      |
| given              | gegebene, vorausgesetzt |
| to determine       | bestimmen               |
| suggested approach | Vorgehensvorschlag      |



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