

# LU03.L01 - Choose data-types

Which datatype would you use to store the following information? Give reason for your decision.

1. Product-title like trousers up to 50 characters:

- **VARCHAR(50)**
- Titles can be at the most 50 characters. A fix length makes no sense in that case.

2. Product-description up to 255 characters:

- **VARCHAR(255)**
- The description can be 255 characters, but can also be shorter. A fix length does not make sense in that case.

3. Stock amount:

- **INT or INTEGER**
- Floating point type is not suitable as pieces are always counted in whole numbers.

4. Price of each piece:

- **FLOAT(5,2) or DECIMAL(U5,2)**
- Prices have floating point
- The length of (5,2) should be sufficient enough as trousers are usually within a price ranger of 0.99 to 999.99.

5. order date:

- **DATE or DATETIME**
- The type depends on whether we want to safe only the date, but also the time.
- Usually in such cases to store only the order-date is enough.

6. date of delivery:

- **DATETIME or TIMESTAMP**
- Regarding delivery quality the criteria punctuality might be one key element. Therefore the storage of the delivery-time is compulsory.
- organical or not:
  - **BOOLEAN**
  - As there a only two possibilites to store a boolean data-type is the correct data-type.
- usage category with only one character:
  - **CHAR**
  - As long as there is only one character to be stored the CHAR-type will work.
  - Technically the CHAR-types allows all letters, digits (as letters) and special characters.

## Vocabulary

English	German
to give reason for	begründen
at the most	höchstens
stock amount	Lagermenge
to float	fließen
sufficient	ausreichend
regarding	bezüglich
might be	möglicherweise
technically	im Prinzip, eigentlich

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