## 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.
- 7. organical or not:
  - BOOLEAN
  - As there a only two possibilites to store a boolean data-type is the correct data-type.
- 8. 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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