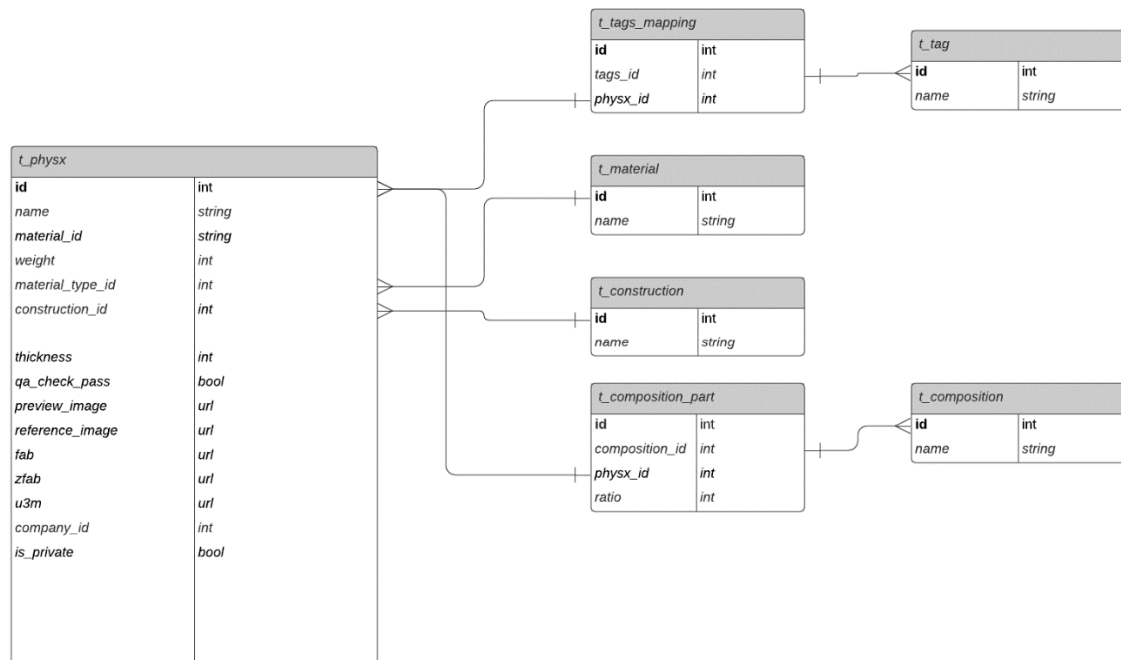


Task 2: SQL full-text search (2 hrs)



Instructions: Please look at the above ER diagram. Your task is to build a query, that returns a table like this (filled with one row of sample data):

name	type	construction	composition	weight	tags
<i>Jacquard</i>	<i>Knit</i>	<i>Jacquard</i>	<i>37% Wool, 36% Polypropylene, 27% Polyester</i>	<i>192 g/m²</i>	<i>Ribknit, Soft</i>
...

The columns should represent the following values:

name: t_physx.name

type: t_material.name

construction: t_construction.name

composition: aggregate of t_composition_part.ratio and t_composition.name (hint: STRING_AGG())

weight: t_physx.weight

tags: aggregate of t_tag.name

The query should be able to filter the results based on a single search term (for example: "knit") which is provided as input. If the search term is present in any of the above fields the respective row should be visible.

Assume working with a PostgreSQL database. As result a single SQL query is expected ("SELECT ... FROM ... WHERE ...") where the search input word is marked with a "?". You are allowed to put several "?" into the query. No additional programming shall be done.