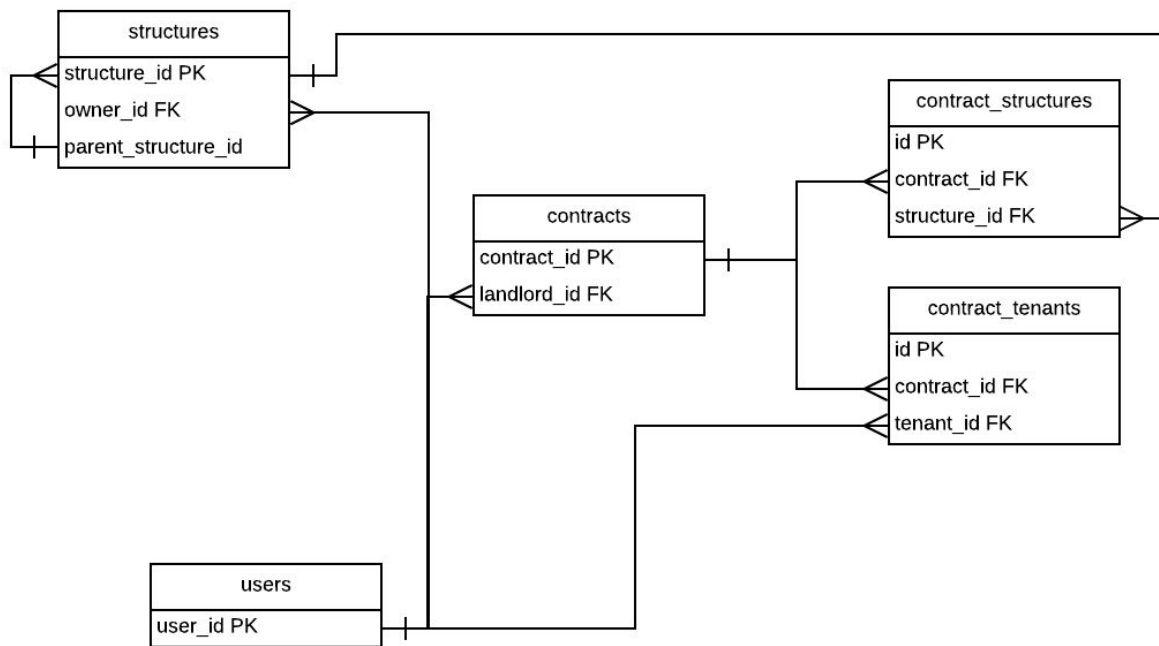


## Diagram



## Description

- This diagram is for relational database.
- Primary keys marked on diagram as PK, foreign keys as FK.
- All fields on diagram have INT type.
- It is reasonable to add fields like name, description, date created, date modified, date deleted (soft deleted) for almost all entities but they were omitted because I wanted to make a diagram clear without obtrusive details.

### STRUCTURES table

- This table contains data about building, apartments etc.
- It has parent\_structure\_id field and it adds hierarchical structure for a table. It is a logical safety constraint. It can be used to check if building is already rent out before rent out an apartment. Or in the opposite case.

### USERS table

- Contains data about users who can be landlords or tenants.

### CONTRACTS table

- Contains data about contracts.
- Current ER model allows only one user to be a landlord per contract.

### CONTRACTS\_TENANT table

- Describes the relationship between landlord and tenants in contracts.
- Allows to create contract with several tenants.

#### CONTRACTS\_STRUCTURE table

- Describes the relationship between contract and structures.
- Allows to create contract with several structures in it.