// Modelo Entidad-Relación basado en tus tablas SQL

Table users {

id uuid [pk]

email varchar

encrypted\_password varchar

}

Table objects {

id uuid [pk]

name text

}

Table user\_roles {

id bigint [pk, increment]

user\_id uuid [not null, ref: > users.id]

role app\_role [not null]

indexes {

(user\_id) [unique]

(user\_id, role) [unique]

}

}

Table user\_details {

id bigint [pk, increment]

user\_id uuid [unique, ref: > users.id]

primer\_nombre text

segundo\_nombre text

primer\_apellido text

segundo\_apellido text

}

Table role\_permissions {

id bigint [pk, increment]

role app\_role [not null]

permission app\_permission [not null]

indexes {

(role, permission) [unique]

}

}

Table cursos {

id bigint [pk]

created\_at timestamp

name text

tipo curso\_types

creditos integer

relacion text

area curso\_areas

docente\_id uuid [ref: > users.id]

ciclo curso\_ciclo

}

Table programas {

id bigint [pk, increment]

nombre text

director\_programa\_id uuid [unique, ref: > users.id]

nivel\_formacion niveles\_formacion

modalidad modalidades\_programa

duracion integer

titulo\_otorga text

}

Table curso\_por\_programa {

curso\_id bigint [not null, ref: > cursos.id]

programa\_id bigint [not null, ref: > programas.id]

semestre integer

year integer

indexes {

(curso\_id, programa\_id) [pk]

}

}

Table requisitos\_cursos {

curso\_id bigint [not null, ref: > cursos.id]

programa\_id bigint [not null, ref: > programas.id]

requisito\_curso\_id bigint [not null, ref: > cursos.id]

year integer

indexes {

(curso\_id, programa\_id, requisito\_curso\_id, year) [pk]

}

}

Table curso\_apoyos\_files {

id bigint [pk, increment]

course\_id bigint [ref: > cursos.id]

object\_id uuid [not null, ref: > objects.id]

tipo tipo\_apoyo\_academico [not null, default: 'OTRO']

uploaded\_at timestamp

}

Table curso\_microcurriculums\_files {

id bigint [pk, increment]

course\_id bigint [ref: > cursos.id]

object\_id uuid [not null, ref: > objects.id]

is\_main boolean [not null, default: false]

uploaded\_at timestamp

date timestamp

indexes {

(course\_id, object\_id) [unique]

}

}

Table programa\_curriculum\_files {

id bigint [pk, increment]

program\_id bigint [ref: > programas.id]

object\_id uuid [not null, ref: > objects.id]

is\_main boolean [not null, default: false]

uploaded\_at timestamp

date timestamp

indexes {

(program\_id, object\_id) [unique]

}

}

Table programa\_resultados\_files {

id bigint [pk, increment]

program\_id bigint [ref: > programas.id]

object\_id uuid [not null, ref: > objects.id]

is\_main boolean [not null, default: false]

uploaded\_at timestamp

date timestamp

indexes {

(program\_id, object\_id) [unique]

}

}

Table propuestas {

id bigint [pk, increment]

titulo text [not null]

curso\_id bigint [not null, ref: > cursos.id]

docente\_id uuid [not null, ref: > users.id]

archivo\_id uuid [ref: > objects.id]

estado estado\_propuesta [not null, default: 'EN\_REVISION\_DIRECTOR']

observaciones text

created\_at timestamp

last\_updated\_at timestamp

signed\_by\_director\_programa boolean [not null, default: false]

signed\_by\_director\_escuela boolean [not null, default: false]

signature\_rejected boolean [not null, default: false]

can\_edit boolean [not null, default: true]

}

Table propuestas\_historial {

id bigint [pk, increment]

proposal\_id bigint [not null, ref: > propuestas.id]

previous\_status estado\_propuesta

new\_status estado\_propuesta [not null]

performed\_by uuid [ref: > users.id]

created\_at timestamp

}

Table notifications {

id bigint [pk, increment]

user\_id uuid [not null, ref: > users.id]

title text [not null]

description text [not null]

created\_at timestamp

seen boolean [not null, default: false]

}

Table user\_role\_history {

id bigint [pk, increment]

target\_user\_id uuid [ref: > users.id]

performed\_by uuid [ref: > users.id]

previous\_role app\_role

new\_role app\_role

action varchar(20) [not null]

created\_at timestamp

}