UNIVERSIDAD AUTÓNOMA GABRIEL RENÉ MORENO
FACULTAD DE INGENIERÍA Y CIENCIAS DE LA COMPUTACIÓN Y TELECOMUNICACIONES

Sistemas de Información II

"Diseño de BD Y Reportes"

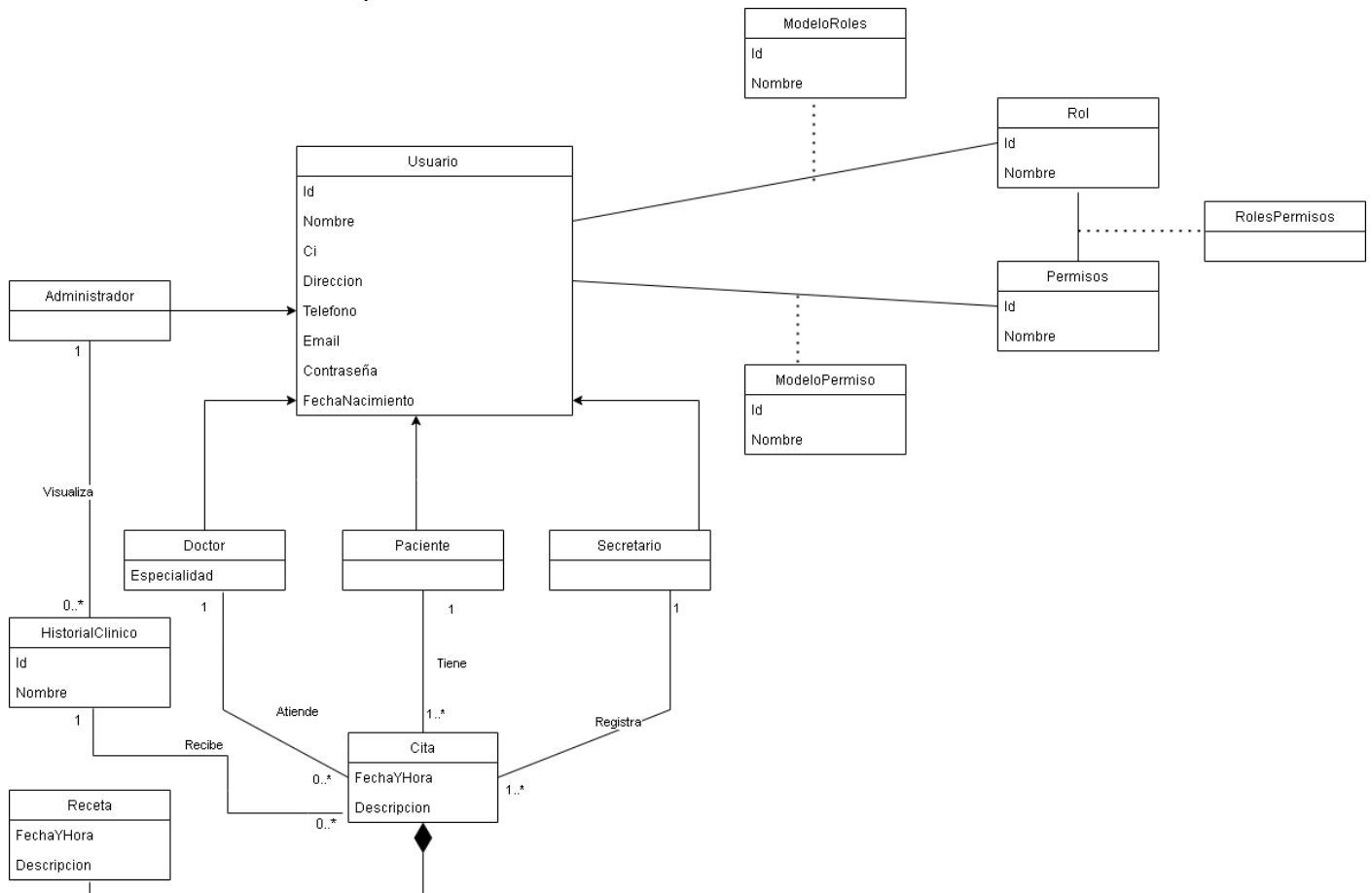Sistema de información documental para la gestión de un "Historial Clínico"
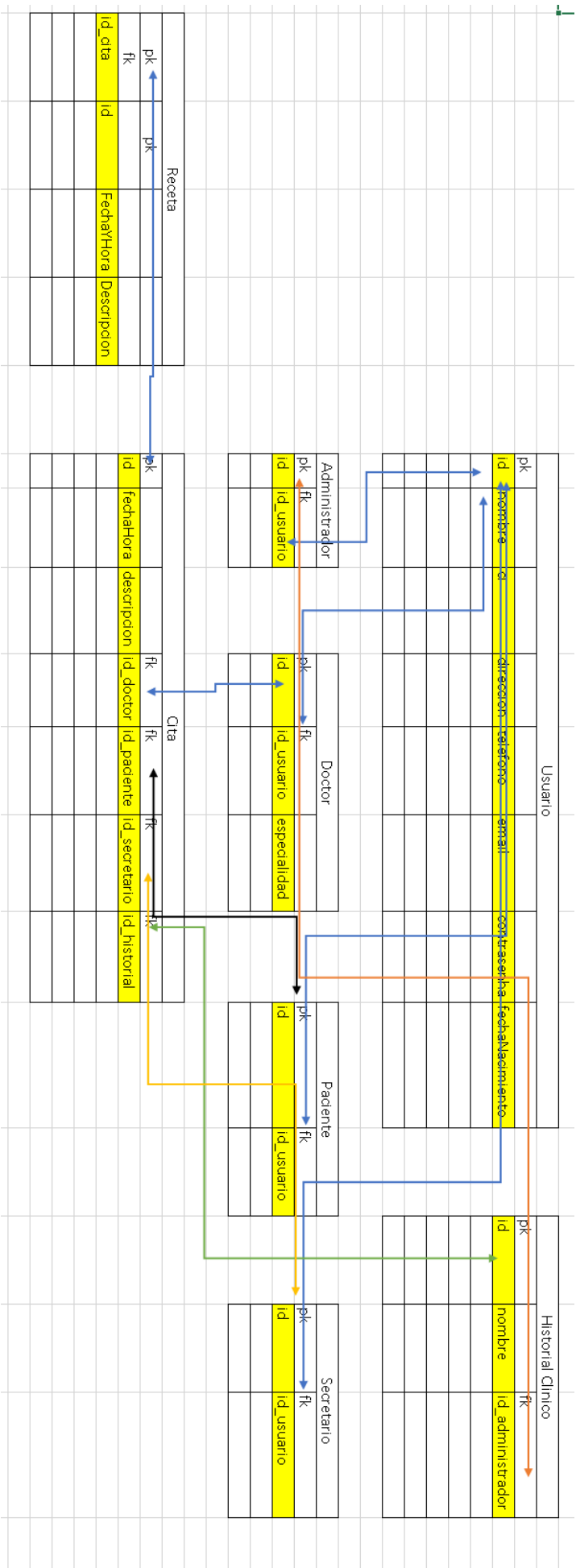
Grupo #4

Integrantes:

Apellidos y Nombres	Número de Registro
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1. Diseño de Base de Datos

1.1. Diseño Conceptual

1.2. Diseño Lógico

Receta

id_cita	id	FechaYHora	Descripcion
pk	pk		
fk			

Usuario

id	nombre	ci	direccion	telefono	email	contraseña	fechaNacimiento
pk							

Administrador

id_usuario
pk
fk

Doctor

id	id_usuario	especialidad
pk		
fk	fk	

Cita

id	fechaHora	descripcion	id_doctor	id_paciente	id_secretario	id_historial
pk			fk	fk	fk	fk

Paciente

id	id_usuario
pk	fk

Historial Clinico

id	nombre	id_administrador
pk		fk

Secretario

id	id_usuario
pk	fk

1.3. Diseño Físico - SQL

```sql
create table users(
    id serial primary key not null,
    ci integer not null,
    name varchar(100) not null,
    address varchar(150) not null,
    phone integer,
    birthday date not null,
    mail varchar(150) not null,
    password varchar(150) not null
);

create table admins(
    user_id serial primary key not null,

    foreign key(user_id) references users(id)
    on update cascade on delete cascade
);

create table doctors(
    user_id serial primary key not null,
    especialidad varchar(150) not null,

    foreign key(user_id) references users(id)
    on update cascade on delete cascade
);

create table patients(
    user_id serial primary key not null,

    foreign key(user_id) references users(id)
    on update cascade on delete cascade
);

create table secretaries(
    user_id serial primary key not null,

    foreign key(user_id) references users(id)
    on update cascade on delete cascade
);

create table historialClinicos(
    id serial primary key not null,
    name varchar(150),
    admin_id serial not null,

    foreign key(admin_id) references admins(user_id)
    on update cascade on delete cascade
);

create table citas(
    id serial primary key not null,
    fecha_hora timestamp not null,
    description text,

    historiaclinica_id serial not null,
    doctor_id serial not null,
    patient_id serial not null,
    secretary_id serial not null,

    foreign key(historiaclinica_id) references historialClinicos(id)
    on update cascade on delete cascade,

    foreign key(doctor_id) references doctors(user_id)
    on update cascade on delete cascade,
```

```sql
        foreign key(patient_id) references patients(user_id)
        on update cascade on delete cascade,

        foreign key(secretary_id) references secretaries(user_id)
        on update cascade on delete cascade
);

create table recetas(
        id serial not null,
        cita_id serial not null,
        fecha_hora timestamp not null,
        description text,

        primary key(cita_id, id),

        foreign key(cita_id) references citas(id)
        on update cascade on delete cascade
);


select * from users;
select * from admins;
select * from doctors;
select * from patients;
select * from secretaries;
select * from historialClinicos;
select * from citas;
select * from recetas;
```

1.4. Diseño Físico - Laravel

```php
Schema::create('users', function (Blueprint $table) {
        $table->id();
        $table->string('name');
        $table->integer('ci')->unique()->nullable();
        $table->string('address')->nullable();
        $table->integer('phone')->nullable();
        $table->string('email')->unique();
        $table->string('password');
        $table->date('fecha_nacimiento')->nullable();
        $table->rememberToken();
        $table->timestamps();
    });
```

```php
 Schema::create('admins', function (Blueprint $table) {
        $table->id();
        $table->unsignedBigInteger('user_id')->nullable(false);
        $table->foreign('user_id')->references('id')->on('users')-
>onUpdate('cascade')->onDelete('cascade');
    });
```

```php
Schema::create('doctors', function (Blueprint $table) {
        $table->id();
        $table->unsignedBigInteger('user_id')->nullable(false);
        $table->string('especialidad')->nullable(false);
```

```php
            $table->foreign('user_id')->references('id')->on('users')-
>onUpdate('cascade')->onDelete('cascade');
        });


Schema::create('secretaries', function (Blueprint $table) {
            $table->id();
            $table->unsignedBigInteger('user_id')->nullable(false);
            $table->foreign('user_id')->references('id')->on('users')-
>onUpdate('cascade')->onDelete('cascade');
        });


Schema::create('patients', function (Blueprint $table) {
            $table->id();
            $table->unsignedBigInteger('user_id')->nullable(false);
            $table->foreign('user_id')->references('id')->on('users')-
>onUpdate('cascade')->onDelete('cascade');
        });


Schema::create('citas', function (Blueprint $table) {
            $table->id();
            $table->dateTime('fecha_hora');
            $table->text('description')->nullable(false);
            $table->unsignedBigInteger('doctor_id')->nullable();
            $table->unsignedBigInteger('secretarie_id')->nullable(true);
            $table->unsignedBigInteger('patient_id')->nullable();
            $table->foreign('doctor_id')->references('id')->on('doctors')-
>onUpdate('cascade')->onDelete('cascade');
            $table->foreign('secretarie_id')->references('id')->on('secretaries')-
>onUpdate('cascade')->onDelete('cascade');
            $table->foreign('patient_id')->references('id')->on('patients')-
>onUpdate('cascade')->onDelete('cascade');
            $table->timestamps();
        });


  Schema::create('recetas', function (Blueprint $table) {
            $table->id();
            $table->dateTime('fecha_hora');
            $table->text('description');
            $table->unsignedBigInteger('cita_id');
            $table->foreign('cita_id')->references('id')->on('citas')-
>onUpdate('cascade')->onDelete('cascade');
            $table->timestamps();

        });


 Schema::create('historicos', function (Blueprint $table) {
            $table->id();
            $table->timestamps();
        });
```

```php
Schema::create('historicos', function (Blueprint $table) {
        $table->id();
        $table->String('nombre');
        $table->timestamps();
    });
```

2. Reportes

2.1. Filtro de Citas

2.2. Edicion de Reportes

Clinic-Center	Joaquin Chumacero Mamani Lic. en Oftalmología	
Paciente: Carla Mamani Torres		**Fecha:** 10/05/2022

Descripción

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