

Base de Datos

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Importante!!!

El gestor de base de datos que utilizo es **PostgreSQL** (No **MySQL**). Esta aclaración es importante para entender el código **SQL**.

Explicación de las clases y su utilizadad

Principalmente tendremos **5 clases** y una que veremos más adelante que es la **relación** entre **Hotel** y **TypeRoom**. Las **5 clases** són:

- Cliente:

Utilizaremos esta clase para registrar a los nuevos usuarios y comprobar si existe un usuario cuando quiera loguearse.

- Booking:

Utilizamos está clase para hacer reservas y consultar las reservas (la parte del BackOffice).

- TypeRoom:

En está clase almacenaremos los tipos de habitación que podrán existir (Suite, Doble, etc).

- Hotel:

Debido a que somos una cadena hotelera, tendremos diversos hoteles.

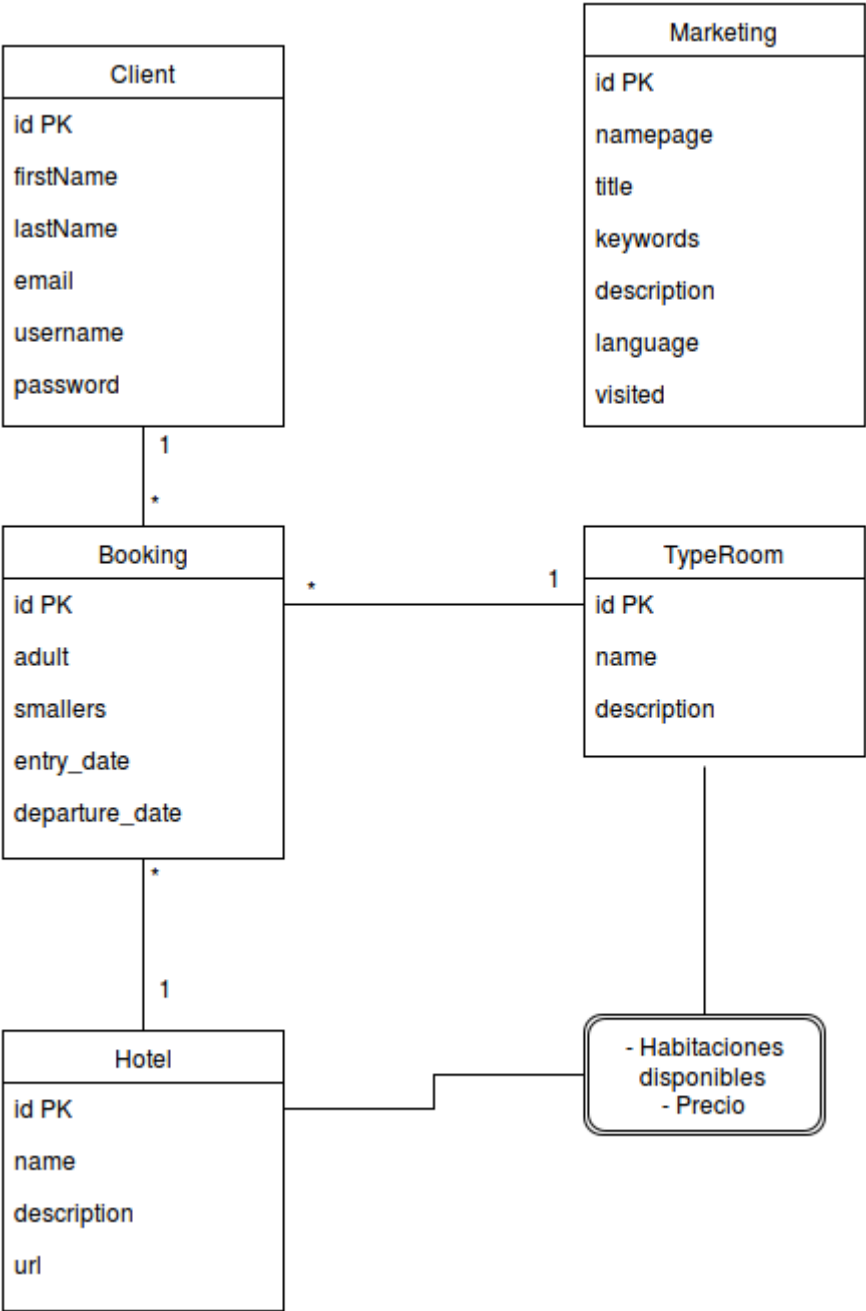
- Marketing:

Está clase la usaremos para asignar los tags 'meta' en las páginas web, és decir, tendremos para cada página web sus tags.

- R_Hotel_TypeRoom:

En esta clase tendremos la relación entre el hotel y el tipo de habitación.

Modelo Conceptual:



Modelo relacional:

Negrita → Primary Key

Subrayado → Foreign key

Client (id, firstName, lastName, email, username, password)

Hotel (**id**, name, description, url)

TypeRoom (**id**, name, description)

Marketing (**id**, namepage, title, keywords, description, language, visited)

Booking (**id**, adult, smaller, entry_date, departure_date, idClient, idHotel, idTypeRoom)

Relaciones extra:

R_Client_Booking (idClient, **idBooking**)

R_Booking_Hotel (**idBooking**, idHotel)

R_Booking_TypeRoom (**idBooking**, idTypeRoom)

R_Hotel_TypeRoom (**id**, idHotel, idTypeRoom, numroomsavailable, price)

SQL:

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```
DROP TABLE "Client";
DROP TABLE "Hotel";
DROP TABLE "TypeRoom";
DROP TABLE "Booking";
DROP TABLE "R_Booking_TypeRoom";
```

```
CREATE TABLE IF NOT EXISTS "Client" (
    id serial primary key,
    username varchar(50),
    password varchar(50),
    firstName varchar(50),
    lastName varchar(50),
    email varchar(50)
);
```

```
CREATE TABLE IF NOT EXISTS "Hotel" (
    id serial primary key,
    name varchar(30),
    description varchar(100),
    url varchar(50)
);
```

```
insert into "Hotel"("name","description","url") values ('Son Net', 'Gran
Hotel en Puigpunyent', 'sonnet@
mail.com');
insert into "Hotel"("name","description","url") values ('Can Blau', 'Gran
Hotel en Puigpunyent', 'canbla
u@mail.com');
```

```
CREATE TABLE IF NOT EXISTS "TypeRoom" (
    id serial primary key,
    name varchar(30),
    description varchar(100)
);
```

```
insert into "TypeRoom"("name", "description") values ('Suite', 'Big room');
insert into "TypeRoom"("name", "description") values ('Junior Suite',
'small room for children');
insert into "TypeRoom"("name", "description") values ('Doble', 'For two
people');INSERT 0 1
insert into "TypeRoom"("name", "description") values ('Doble Vista Mar',
'For two people with sea view')
;
insert into "TypeRoom"("name", "description") values ('Individual', 'For a
person');
```

```
CREATE TABLE IF NOT EXISTS "Booking" (
    id serial primary key,
    adult int2,
    smallers int2,
    entry_date date,
    departure_date date,
    idClient int references "Client"(id),
    idHotel int references "Hotel"(id),
    idTypeRoom int references "TypeRoom"(id)
);
```

```
CREATE TABLE IF NOT EXISTS "R_Hotel_TypeRoom" (
    id serial primary key,
    idHotel int references "Hotel"(id),
    idTypeRoom int references "TypeRoom"(id),
    numRoomsAvailable int,
    price int
);
```

```
select * from "Hotel";
select * from "TypeRoom";
```

```
insert into
"R_Hotel_TypeRoom"("idhotel", "idtyperoom", "numroomsavailable", "pric
e") values (1, 1, 3, 350);
```

```
insert into
"R_Hotel_TypeRoom"("idhotel","idtyperoom","numroomsavailable","price") values (1, 2, 10, 250)
```

```
insert into
"R_Hotel_TypeRoom"("idhotel","idtyperoom","numroomsavailable","price") values (1, 3, 2, 450);
```

```
insert into
"R_Hotel_TypeRoom"("idhotel","idtyperoom","numroomsavailable","price") values (1, 4, 6, 850);
```

```
insert into
"R_Hotel_TypeRoom"("idhotel","idtyperoom","numroomsavailable","price") values (1, 5, 3, 200);
```

```
insert into
"R_Hotel_TypeRoom"("idhotel","idtyperoom","numroomsavailable","price") values (2, 1, 5, 300);
```

```
insert into
"R_Hotel_TypeRoom"("idhotel","idtyperoom","numroomsavailable","price") values (2, 2, 1, 200);
```

```
insert into
"R_Hotel_TypeRoom"("idhotel","idtyperoom","numroomsavailable","price") values (2, 3, 5, 480);
```

```
insert into
"R_Hotel_TypeRoom"("idhotel","idtyperoom","numroomsavailable","price") values (2, 4, 9, 700);
```

```
insert into
"R_Hotel_TypeRoom"("idhotel","idtyperoom","numroomsavailable","price") values (2, 5, 4, 150);
```

```
DROP TABLE "Marketing";
```

```
CREATE TABLE IF NOT EXISTS "Marketing" (
    id SERIAL PRIMARY KEY,
    namePage VARCHAR(50),
    title VARCHAR(50),
    keywords VARCHAR(50),
    description VARCHAR(50),
    language VARCHAR(50),
    visited integer
```

);

insert into "Marketing"(namepage, title, keywords, description, language, visited) values ('rooms.jsp', 'Rooms Page','Booking,rooms,hotel', 'Booking a room', 'spanish', 0);

insert into "Marketing"(namepage, title, keywords, description, language, visited) values ('marketing.jsp', 'Marketing Page','Booking,marketing,hotel', 'Status page', 'spanish', 0);

insert into "Marketing"(namepage, title, keywords, description, language, visited) values ('reservation.jsp', 'Reservation Page','Booking,reservation,hotel', 'Reservation a room', 'spanish', 0);

insert into "Marketing"(namepage, title, keywords, description, language, visited) values ('tribago.jsp', 'Booking','Tribago,reservation,hotel', 'See available room', 'spanish', 0);

insert into "Marketing"(namepage, title, keywords, description, language, visited) values ('reception.jsp', 'Reception','Reception,Back office, hotel', 'Manage rooms', 'spanish', 0);