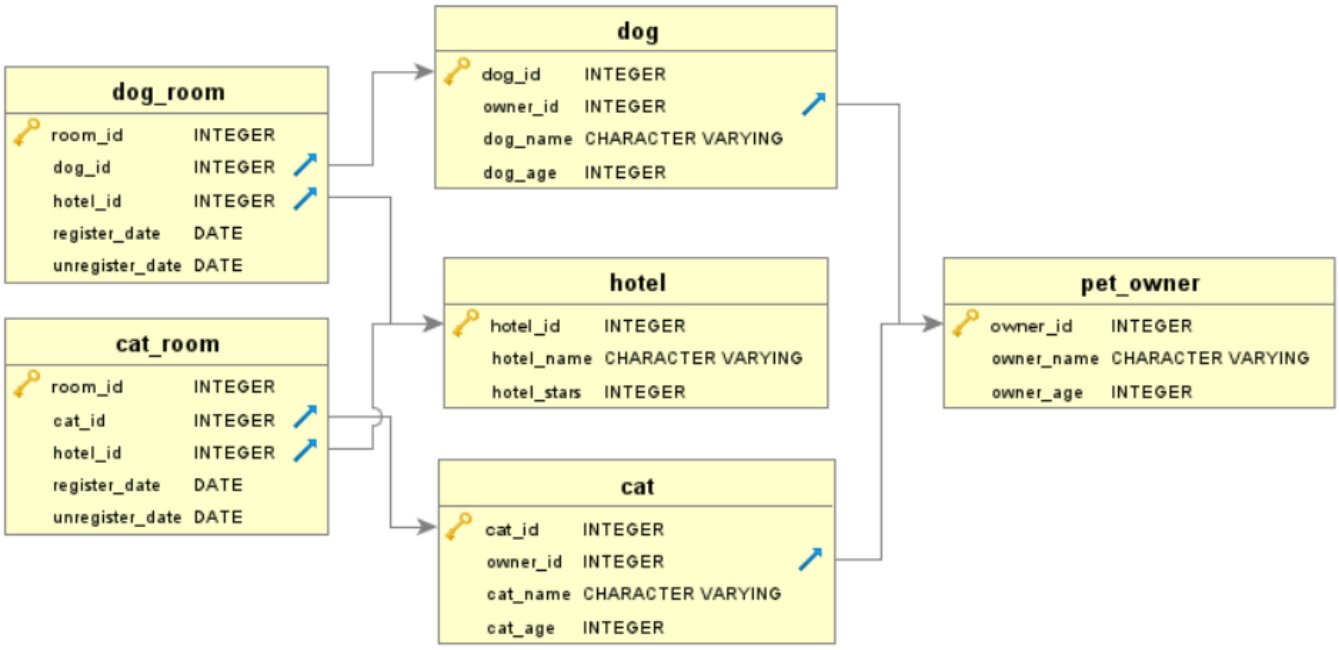
Lab: PostgreSQL

Pet Hotel

Create a database called **`pet_hotel`** that has the following **tables** and **structure**



Field Restrictions

- **`owner_name`** – must have a **maximum** length of **15**
- **`owner_age`** – must be a number **between 1 and 110**
- **`dog_name`** – must have a **maximum** length of **15**
- **`dog_age`** – must be **between 1 and 25**
- **`cat_name`** – must have a **maximum** length of **15**
- **`cat_age`** – must be **between 1 and 25**
- **`hotel_name`** – must have a **maximum** length of **25**
- **`hotel_stars`** – must be **between 1 and 5**

Features

- When **deleting** a **cat** or **dog**, their records from the **rooms** should also be **deleted**
- When **deleting** an **owner**, the corresponding **pets** should also be **deleted**
- When **deleting** a **hotel**, the corresponding **rooms** should also be **deleted**

1. Insert

Let us **insert** some data into the tables

`Pet Owners`

owner_id	name	owner_age
1	'Peter'	26

2	'George'	32
3	'Amy'	67

Dogs

dog_id	owner_id	dog_name	dog_age
1	1	'Fluffy'	2
2	3	'Bully'	3
3	1	'Rousey'	5

Cats

cat_id	owner_id	cat_name	cat_age
1	2	'Tommy'	1
2	3	'Jessy'	7
3	2	'Bubbles'	3

Hotels

hotel_id	hotel_name	hotel_stars
1	'Grand Pets Hotel'	5
2	'Pets Heaven'	2

Dog Rooms

room_id	dog_id	hotel_id	register_date	unregister_date
1	1	1	'2020-06-08'	'2020-06-10'
2	2	2	'2020-06-10'	'2020-06-15'
3	3	2	'2020-06-20'	'2020-06-23'

Cat Rooms

room_id	cat_id	hotel_id	register_date	unregister_date
1	1	1	'2020-06-08'	'2020-06-10'
2	2	2	'2020-06-10'	'2020-06-15'
3	3	2	'2020-06-20'	'2020-06-23'

2. Select

Select **all** the information from the **dog_room** table

Data Output | Explain | Messages | Notifications

	room_id [PK] integer	dog_id integer	hotel_id integer	register_date date	unregister_date date
1	1	1	1	2020-06-08	2020-06-10
2	2	2	2	2020-06-10	2020-06-15
3	3	3	2	2020-06-20	2020-06-23

3. Where

Select **only** the **ids** of the **cats** that are in **rooms** from the **hotel** with **id=2**

Data Output | Explain | Messages | Notifications

	cat_id integer
1	2
2	3

4. Sort

Sort all the **pet owners** by **age** in **descending**

Data Output | Explain | Messages | Notifications

	owner_id [PK] integer	owner_name character varying (15)	owner_age integer
1	3	Amy	67
2	2	George	32
3	1	Peter	26

5. Count

Get the **count** of all **cats** that are of **age 3 or older**

Data Output | Explain | Messages | Notifications

	count bigint
1	2

6. Delete

Delete all **cats** and **dogs**, that are of **age 2 or less**

Data Output | Explain | Messages | Notifications

	cat_id [PK] integer	owner_id integer	cat_name character varying (15)	cat_age integer
1	2	3	Jessy	7
2	3	2	Bubbles	3

Data Output | Explain | Messages | Notifications

	dog_id [PK] integer	owner_id integer	dog_name character varying (15)	dog_age integer
1	2	3	Bully	3
2	3	1	Rousey	5

Data Output | Explain | Messages | Notifications

	room_id [PK] integer	dog_id integer	hotel_id integer	register_date date	unregister_date date
1	2	2	2	2020-06-10	2020-06-15
2	3	3	2	2020-06-20	2020-06-23

Data Output | Explain | Messages | Notifications

	room_id [PK] integer	cat_id integer	hotel_id integer	register_date date	unregister_date date
1	2	2	2	2020-06-10	2020-06-15
2	3	3	2	2020-06-20	2020-06-23