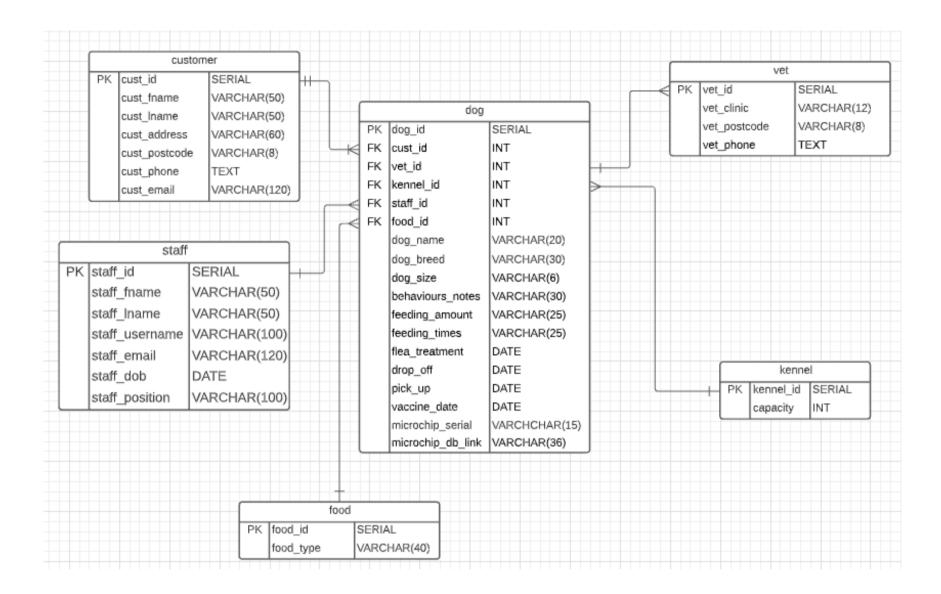
Smile Canine Boarding: ERD



Assumptions:

Dog:

- Microchips are 15-digit numbers according to ISO standards. I assumed purely numeric numbers
 (https://www.pettravel.com/0001225.cfm "The 15-digit ISO pet microchip is the world standard"). This is
 VARCHAR type as it can be different depending on country e.g., in EU is 9 digits.
- Microchip database links are included as this would be useful for SCB if a dog was to get lost.
- Behaviours (behaviours_notes entity) contain things for the kennel staff to keep in mind, such as medical condition or aggression.

Vet:

Dogs that have the same owner attend the same vet.

Food:

- There are 6 different food types
 - Small shelf
 - Small organic
 - Medium shelf
 - Medium organic
 - Large shelf
 - Large organic
- Small large is relevant for nutritional needs of dogs, as there are small/medium/large dogs.
- Shelf is standard food, organic is specialist food for dogs that have owners who request for better quality food to be fed to their dog (at a higher price).

Data dictionary:

staff								
Attribute Name	Data Type	Size	Key (Primary or foreign)	FK reference	Constraints	Description (If needed)		
staff_id	SERIAL		Primary		NOT NULL			
staff_fname	VARCHAR	50			NOT NULL			
staff_Iname	VARCHAR	50			NOT NULL			
staff_username	VARCHAR	100			NOT NULL	Username of the staff		
staff_email	VARCHAR	120			NOT NULL			
staff_dob	DATE				NOT NULL	Staff date of birth		
staff_position	VARCHAR	100			NOT NULL			

customer								
Attribute Name	Data Type	Size	Key (Primary or foreign)	FK reference	Constraints	Description (If needed)		
cust_id	Serial		Primary		NOT NULL			
cust_fname	VARCHAR	50			NOT NULL			
cust_Iname	VARCHAR	50			NOT NULL			
cust_address	VARCHAR	60			NOT NULL			
cust_postcode	VARCHAR	8			NOT NULL			
cust_phone	TEXT				NOT NULL			
cust_email	VARCHAR	120			NULL			

vet							
Attribute Name	Data Type	Size	Key (Primary or foreign)	FK reference	Constraints	Description (If needed)	
vet_id	SERIAL		Primary		NOT NULL		
vet_clinic	VARCHAR	12			NOT NULL	Name of vet clinic	
vet_postcode	VARCHAR	8			NOT NULL		
vet_phone	TEXT				NOT NULL		

food							
Attribute Name	Data Type	Size	Key (Primary or foreign)	FK reference	Constraints	Description (If needed)	
food_id	SERIAL		Primary		NOT NULL		
food_type	INT				NOT NULL	Type of dog food (food for small, medium, large dog. Comes with shelf and organic version)	

kennel							
Attribute Name	Data Type	Size	Key (Primary or foreign)	FK reference	Constraints	Description (If needed)	
kennel_id	SERIAL		Primary		NOT NULL		
capacity	INT				NOT NULL	Total amount of dogs in kennel at one time, some can house 2 dogs	

dog								
Attribute Name	Data Type	Size	Key (Primary or foreign)	FK reference	Constraints	Description (If needed)		
dog_id	SERIAL		Primary		NOT NULL			
cust_id	INT		Foreign	customer.cust_id	NOT NULL			
vet_id	INT		Foreign	vet.vet_id	NOT NULL			
kennel_id	INT		Foreign	kennel.kennel_id	NOT NULL			
staff_id	INT		Foreign	staff.staff_id	NOT NULL			
food_id	INT		Foreign	food.food_id	NOT NULL			
dog_name	VARCHAR	20			NOT NULL			
dog_breed	VARCHAR	30			NOT NULL			
dog_size	VARCHAR	6			NOT NULL	Small, medium or large		
behaviours_notes	VARCHAR	30			NOT NULL	Noted for temperament/medical issues for dog that affect behaviour		
feeding_amount	VARCHAR	25			NOT NULL	Amount of scoops of dry food that dogs are given when fed		
feeding_times	VARCHAR	25			NOT NULL	Times of day dog is fed		
flea_treatment	DATE				NOT NULL	Date of last flea treatment		
drop_off	DATE				NOT NULL	Date the dog was dropped off by customer		
pick_up	DATE				NOT NULL	Date the dog will be picked up by customer		
vaccine_date	DATE				NOT NULL	Date the dog received vaccinations		
microchip_serial	VARCHAR	15			NOT NULL	15-digit serial number for dog's microchip		
microchip_db_link	VARCHAR	36			NOT NULL	Links provided against each dog corresponding to their microchip, link leads to correct database to search the microchip serial number		

Query screenshots:

JOIN 1

JOIN 2

JOIN 3

```
smile_canine_boarding=# SELECT staff_fname, staff_username, staff_position, dog_name, dog_breed, dog_size, feeding_times, feeding_amount, food_type FROM staff
smile_canine_boarding=# JOIN dog on staff.staff_id = dog.staff_id
smile_canine_boarding=# JOIN food ON dog.food_id = food.food_id
smile_canine_boarding=# WHERE feeding_times = 'Feed at 8am, 1pm and 5pm';
staff_fname | staff_username | staff_position | dog_name | dog_breed | dog_size | feeding_times | feeding_amount | food_type

Christine | cnelson | general staff | Sid | Beagle | Medium | Feed at 8am, 1pm and 5pm | Three scoops dry food | Medium dog shelf dry food 50kg bag
Christine | cnelson | general staff | Lassie | Irish Wolf Hound | Large | Feed at 8am, 1pm and 5pm | Four scoops dry food | Large dog organic dry food 50kg bag
(2 rows)

smile_canine_boarding=#
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(JOIN 4 ON NEXT PAGE)

```
smile_canine_boarding=# SELECT dog_name, drop_off, pick_up, cust_fname, cust_lname FROM customer
smile_canine_boarding-# JOIN dog ON customer.cust_id = dog.cust_id
smile_canine_boarding-# WHERE pick_up >= '2022-02-23';
 dog_name | drop_off | pick_up
                                   cust_fname | cust_lname
Zeus
           2022-02-25
                        2022-02-23
                                     Jack
                                                  Lee
                        2022-02-23
                                     Mia
 Jaspa
           2022-02-24
                                                  Adams
 Bailey
            2022-02-24
                        2022-02-23
                                     Jackie
                                                  Ryan
 Jack
           2022-02-24
                        2022-02-23
                                     Eren
                                                  Yeager
 Charlie
           2022-02-24
                        2022-02-23
                                     Thomas
                                                  She1by
 Bruce
           2022-02-24
                        2022-02-23
                                     Jack
                                                  Astner
 Max
           2022-02-24
                        2022-02-23
                                                  Astner
                                     Jack
 G
           2022-02-24
                                                  Tudor
                        2022-02-23
                                     Harry
 Lassie
           2022-02-24
                        2022-02-23
                                                  Tudor
                                     Harry
                        2022-02-23
                                     Paul
                                                  Mabbot
 Rat
            2022-02-24
 Smudge
           2022-02-24
                                                  Mabbot
                        2022-02-23
                                     Pau1
(11 rows)
smile_canine_boarding=#
```