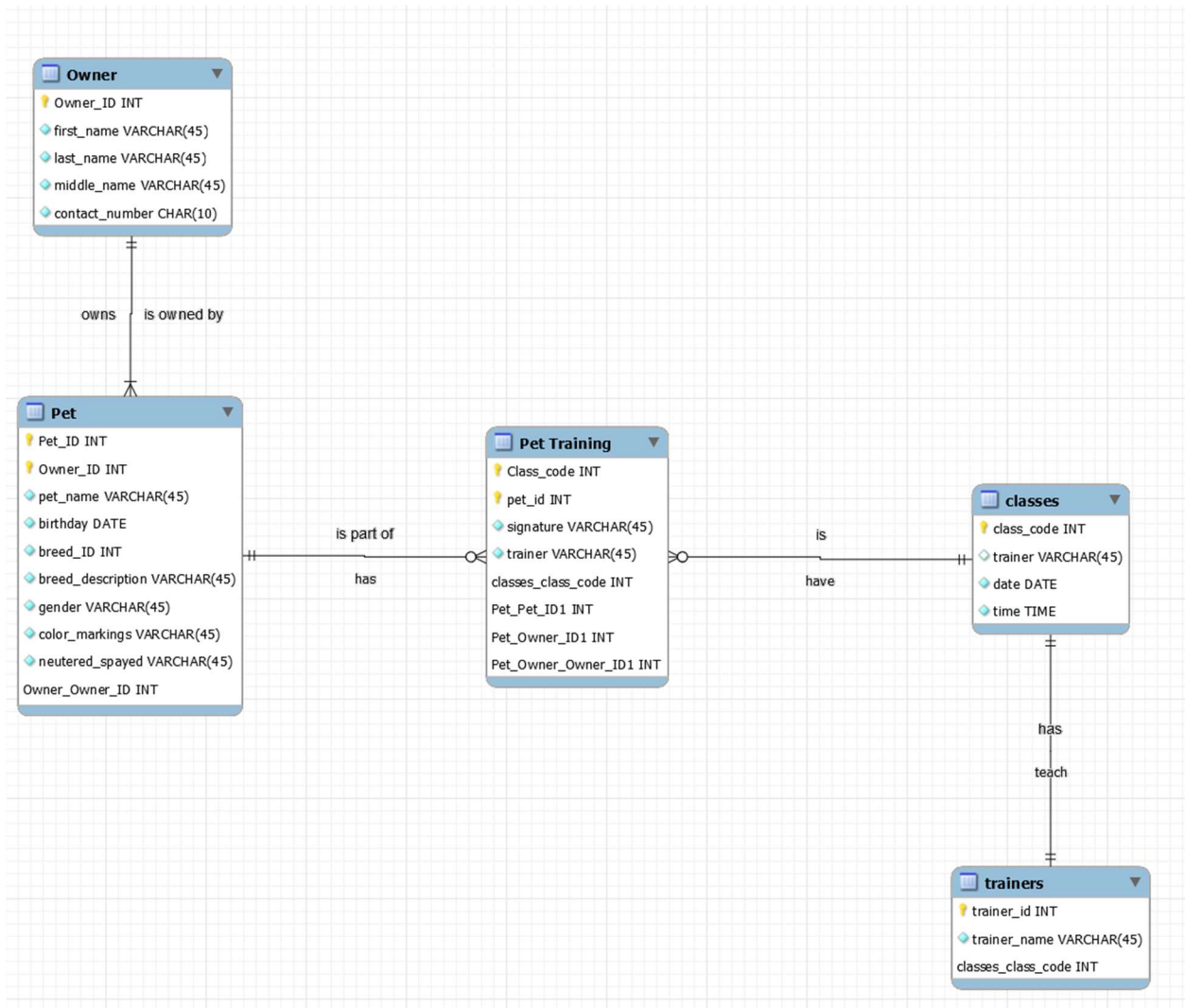


1. Data model



2. Describe statements

DESCRIBE owner:

	Field	Type	Null	Key	Default	Extra
►	owner_id	int	NO	PRI	NULL	
	first_name	varchar(45)	NO		NULL	
	last_name	varchar(45)	NO		NULL	
	middle_initial	varchar(45)	NO		NULL	
	contact_number	varchar(45)	NO		NULL	
	pet_id	int	NO		NULL	

DESCRIBE pet:

	Field	Type	Null	Key	Default	Extra
►	pet_id	int	NO	PRI	NULL	
	owner_id	int	NO	PRI	NULL	
	pet_name	varchar(45)	NO		NULL	
	birthday	date	NO		NULL	
	breed_description	varchar(45)	NO		NULL	
	gender	varchar(45)	NO		NULL	
	color_markings	varchar(45)	NO		NULL	
	neutered_spayed	varchar(45)	NO		NULL	

DESCRIBE classes:

	Field	Type	Null	Key	Default	Extra
►	class_code	int	NO	PRI	NULL	
	class_name	varchar(45)	NO		NULL	
	trainer	varchar(45)	NO		NULL	
	date	date	NO		NULL	
	time	time	NO		NULL	

DESCRIBE trainers:

	Field	Type	Null	Key	Default	Extra
►	trainer_id	int	NO	PRI	NULL	
	trainer_name	varchar(45)	NO		NULL	

DESCRIBE pet_training:

	Field	Type	Null	Key	Default	Extra
►	class_code	int	NO	PRI	NULL	
	pet_id	int	NO		NULL	
	owner_id	int	NO		NULL	
	trainer_id	int	NO		NULL	
	signature	varchar(45)	NO		NULL	

3. Inserts and queries

SQL Statements:

1. Owner

```
INSERT INTO owner (owner_id, first_name, last_name, middle_initial, contact_number, pet_id)
VALUES (1, "Michael", "Stowell", "D", "720-838-0249", 1);
```

```
INSERT INTO owner (owner_id, first_name, last_name, middle_initial, contact_number, pet_id)
VALUES (2, "Dannie", "Pothier", "P", "720-112-1242", 2);
```

```
INSERT INTO owner (owner_id, first_name, last_name, middle_initial, contact_number, pet_id)
VALUES (3, "Susan", "Anthony", "B", "720-345-6830", 3);
```

```
INSERT INTO owner (owner_id, first_name, last_name, middle_initial, contact_number, pet_id)
VALUES (4, "Tyler", "Stowell", "M", "720-476-6924", 4);
```

Query:

```
SELECT owner_id, first_name, last_name, middle_initial, contact_number, pet_id
FROM owner
```

	owner_id	first_name	last_name	middle_initial	contact_number	pet_id
▶	1	Michael	Stowell	D	720-838-0249	1
	2	Dannie	Pothier	P	720-112-1242	2
	3	Susan	Anthony	B	720-345-6830	3
	4	Tyler	Stowell	M	720-476-6924	4
✱	NULL	NULL	NULL	NULL	NULL	NULL

2. Pet

```
INSERT INTO pet (pet_id, owner_id, pet_name, birthday, breed_description, gender, color_markings,
neutered_spayed)
```

```
VALUES (1, 1, "Buster", 20180306, "Rotwiler", "Male", "Brown/Black", "yes");
```

```
INSERT INTO pet (pet_id, owner_id, pet_name, birthday, breed_description, gender, color_markings,
neutered_spayed)
```

```
VALUES (2, 2, "Lola", 20191220, "German short hair", "Female", "Brown", "yes");
```

```
INSERT INTO pet (pet_id, owner_id, pet_name, birthday, breed_description, gender, color_markings,
neutered_spayed)
```

```
VALUES (3, 3, "Freddy", 20200104, "Lab", "Female", "White", "No");
```

```
INSERT INTO pet (pet_id, owner_id, pet_name, birthday, breed_description, gender, color_markings,
neutered_spayed)
```

```
VALUES (4, 4, "Boston", 20180804, "Pitbull", "Male", "Grey/White", "yes");
```

Query:

```
SELECT pet_id, owner_id, pet_name, birthday, breed_description, gender, color_markings,
neutered_spayed
```

```
FROM pet
```

	pet_id	owner_id	pet_name	birthday	breed_description	gender	color_markings	neutered_spayed
▶	1	1	Buster	2018-03-06	Rotwiler	Male	Brown/Black	yes
	2	2	Lola	2019-12-20	German short hair	Female	Brown	yes
	3	3	Buster	2020-01-04	Lab	Female	White	No
	4	4	Boston	2018-08-04	Pitbull	Male	Grey/White	yes
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

3. classes

```
INSERT INTO classes (class_code, Class_name, trainer, date, time)
```

```
VALUES (1, "Basic Skills", "Shey", 20200306, '02:00:00');
```

```
INSERT INTO classes (class_code, Class_name, trainer, date, time)
```

```
VALUES (2, "Basic Skills", "Marie", 20200308, '16:00:00');
```

```
INSERT INTO classes (class_code, Class_name, trainer, date, time)
```

```
VALUES (3, "Walk-Train-Play", "Marie", 20200313, '11:00:00');
```

```
INSERT INTO classes (class_code, Class_name, trainer, date, time)
```

```
VALUES (4, "Walk-Train-Play", "Trevor", 20200316, '10:00:00');
```

```
INSERT INTO classes (class_code, Class_name, trainer, date, time)
```

```
VALUES (5, "Off-Leash Operation", "Rose", 20200324, '10:00:00');
```

```
INSERT INTO classes (class_code, Class_name, trainer, date, time)
```

```
VALUES (6, "Off-Leash Operation", "Shey", 20200328, '15:00:00');
```

Query:

```
SELECT class_code, Class_name, trainer, date, time  
FROM classes
```

	class_code	Class_name	trainer	date	time
▶	1	Basic Skills	Shey	2020-03-06	02:00:00
	2	Basic Skills	Marie	2020-03-08	16:00:00
	3	Walk-Train-Play	Marie	2020-03-13	11:00:00
	4	Walk-Train-Play	Trevor	2020-03-16	10:00:00
	5	Off-Leash Operation	Rose	2020-03-24	10:00:00
	6	Off-Leash Operation	Shey	2020-03-28	15:00:00
*	NULL	NULL	NULL	NULL	NULL

4. trainers

```
INSERT INTO trainers (trainer_id, trainer_name)
```

```
VALUES (20, "Shey");
```

```
INSERT INTO trainers (trainer_id, trainer_name)
```

```
VALUES (21, "Marie");
```

```
INSERT INTO trainers (trainer_id, trainer_name)
```

```
VALUES (22, "Trevor");
```

```
INSERT INTO trainers (trainer_id, trainer_name)
```

```
VALUES (23, "Rose");
```

Query:

```
SELECT trainer_id, trainer_name  
FROM trainers
```

	trainer_id	trainer_name
▶	20	Shey
	21	Marie
	22	Trevor
	23	Rose
*	NULL	NULL

5. pet_training

```
INSERT INTO pet_training (class_code, pet_id, owner_id, trainer_id, signature)
```

```
VALUES (1, 1, 1, 20, "Michael Stowell");
```

```
INSERT INTO pet_training (class_code, pet_id, owner_id, trainer_id, signature)
```

```
VALUES (3, 2, 2, 21, "Dannie Pothier");
```

```
INSERT INTO pet_training (class_code, pet_id, owner_id, trainer_id, signature)
```

```
VALUES (5, 3, 3, 23, "Susan Anthony");
```

```
INSERT INTO pet_training (class_code, pet_id, owner_id, trainer_id, signature)
```

```
VALUES (6, 4, 4, 20, "Tyler Stowell");
```

Query:

```
SELECT class_code, pet_id, owner_id, trainer_id, signature
```

```
FROM pet_training
```

	class_code	pet_id	owner_id	trainer_id	signature
▶	1	1	1	20	Michael Stowell
	3	2	2	21	Dannie Pothier
	5	3	3	23	Susan Anthony
	6	4	4	20	Tyler Stowell
*	NULL	NULL	NULL	NULL	NULL

Other Queries:

Owner and pet query:

```
SELECT distinct CONCAT(first_name, " ", last_name, " ", middle_initial) AS owner, pet_name AS  
"pet", breed_description AS "breed", gender, birthday
```

```
FROM owner a, pet b
```

```
WHERE a.pet_id = b.pet_id
```

```
GROUP BY owner;
```

	owner	pet	breed	gender	birthday
▶	Michael,Stowell D	Buster	Rotwiler	Male	2018-03-06
	Dannie,Pothier P	Lola	German short hair	Female	2019-12-20
	Susan,Anthony B	Buster	Lab	Female	2020-01-04
	Tyler,Stowell M	Boston	Pitbull	Male	2018-08-04

Training events:

```
SELECT date, time, trainer_name AS "trainer", class_name AS "class", CONCAT(first_name, " ",  
last_name, " ", middle_initial) AS owner, pet_name AS "pet"
```

```
FROM pet_training a, classes b, pet c, trainers d, owner e
```

```
WHERE a.class_code = b.class_code and a.pet_id = c.pet_id and a.owner_id = e.owner_id and  
a.trainer_id = d.trainer_id
```

	date	time	trainer	class	owner	pet
►	2020-03-06	02:00:00	Shey	Basic Skills	Michael,Stowell D	Buster
	2020-03-13	11:00:00	Marie	Walk-Train-Play	Dannie,Pothier P	Lola
	2020-03-24	10:00:00	Rose	Off-Leash Operation	Susan,Anthony B	Freddy
	2020-03-28	15:00:00	Shey	Off-Leash Operation	Tyler,Stowell M	Boston