

6. PET & OWNER

```
mysql> CREATE TABLE owner
-> (
-> first_name varchar(255),
-> last_name varchar(255),
-> address varchar(255),
-> ownerID int PRIMARY KEY AUTO_INCREMENT
-> );
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> ALTER TABLE pet DROP COLUMN owner;
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> ALTER TABLE pet ADD COLUMN petID INT PRIMARY KEY AUTO_INCREMENT;
Query OK, 0 rows affected (0.15 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE pet ADD COLUMN ownerID INT;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE pet ADD CONSTRAINT FOREIGN KEY (ownerID) REFERENCES owner(ownerID);
Query OK, 8 rows affected (0.21 sec)
Records: 8 Duplicates: 0 Warnings: 0
```

```
mysql> desc pet;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra           |
+-----+-----+-----+-----+-----+-----+
| name   | varchar(20) | YES  |     | NULL    |                 |
| species | varchar(20) | YES  |     | NULL    |                 |
| sex    | char(1)     | YES  |     | NULL    |                 |
| birth  | date        | YES  |     | NULL    |                 |
| death  | date        | YES  |     | NULL    |                 |
| petID  | int         | NO   | PRI | NULL    | auto_increment |
| ownerID | int         | YES  | MUL | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> INSERT INTO owner VALUES ('Aku','Ankka','Someaddress 2',NULL);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO owner VALUES ('Hannu','Hanhi','Hanhivaara',NULL);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> UPDATE pet SET ownerID=2 WHERE name='Fluffy';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> UPDATE pet SET ownerID=3 WHERE name='Buffy';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from pet;
```

name	species	sex	birth	death	petID	ownerID
Fluffy	cat	f	1993-02-04	NULL	1	2
Claws	cat	m	1994-03-17	NULL	2	1
Buffy	dog	f	1989-05-13	NULL	3	3
Fang	dog	m	1990-08-27	NULL	4	3
Bowser	dog	m	1989-08-31	1995-07-29	5	2

```
mysql> select name,species from pet join owner on pet.ownerID = owner.ownerID WHERE first_name='Harold';
```

name	species
Claws	cat

```
1 row in set (0.01 sec)
```

```
mysql> select first_name, name From pet left join owner on pet.ownerID = owner.ownerID;
```

first_name	name
Aku	Fluffy
Harold	Claws
Hannu	Buffy
Hannu	Fang
Aku	Bowser
NULL	Chirpy
NULL	Whistler
NULL	Slim
NULL	Slim

```
9 rows in set (0.00 sec)
```