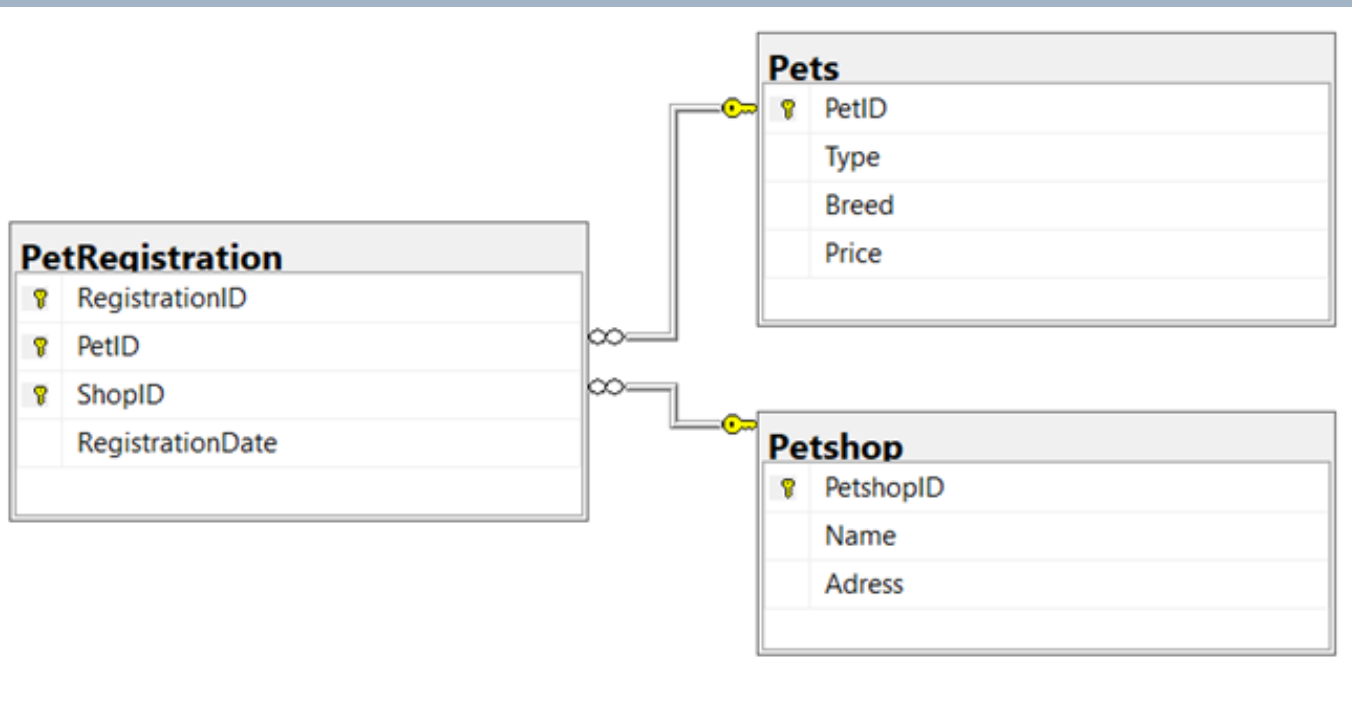


# Pets and petshop

Make a table Pet with id, type (e.g. bird), breed (e.g. dove) and price.  
Make a table Petshop with id, name and address.

Make the database so a certain kind of pet can be in many petshops and a petshop can have many different pets.

A petshop should be able to have many of a certain kind of pet.  
Set up the necessary relations.



The connection between the Pets and the Petshops needs to be a many to many connection, wherefore I made a third table called PetRegistration. In there you will find a specific pet that has it's own registration ID. With the connection to the other two, you will know which kind of animal it is and which shop you can buy it.  
The diagram looks like this:

# Pets and petshop

Populate the tables with typical data.

I have filled in this data:

Pets table:

	PetID	Type	Breed	Price
1	2	Hund	Schæfer	5000
2	3	Hamster	Dværg hamster	400
3	4	Hund	Dansk Svensk Gravhund	2500
4	5	Fugl	Kanarie	350
5	6	Kanin	Dværg kanin	650

Pet shops table:

	PetshopID	Name	Adress
1	1	Hjørring Hundekennel	Hjørringvej 40
2	2	Petstore	Vejvej 5, Viborg
3	3	Dyr til Dig	Jensensvej 6, Snekkersten

Pet Registrations table:

	RegistrationID	PetID	ShopID	RegistrationDate
1	1	2	1	2019-08-07
2	2	2	3	2020-05-29
3	5	2	3	2020-09-10
4	3	3	2	2019-06-13
5	4	5	3	2020-09-10

# Pets and petshop

Make a SQL query to show the pets of a given type.

With this SQL query I found all the dogs in the table Pets

```
SELECT *  
FROM Pets  
WHERE Type = 'Hund'
```

	PetID	Type	Breed	Price
1	2	Hund	Schæfer	5000
2	4	Hund	Dansk Svensk Gravhund	2500

Make a SQL query to show where a given kind of pet can be found.

If we want to find out where we can buy a Hamster, we can make a query like this to get all the information we might need:

From here we know that we can buy a Hamster at Petstore in Viborg

```
SELECT PetRegistration.RegistrationID, Pets.Type, Pets.Breed, Petshop.Name, Petshop.Adress  
FROM PetRegistration, Pets, Petshop  
WHERE Pets.Type = 'Hamster'  
AND Pets.PetID = PetRegistration.PetID  
AND Petshop.PetshopID = PetRegistration.ShopID
```

	RegistrationID	Type	Breed	Name	Adress
1	3	Hamster	Dværg hamster	Petstore	Vejvej 5, Viborg

# Pets and petshop

And try to :

Make a SQL query to show the number of different pets at a given petshop.

There are 2 different types of pets in Dyr til dig (ShopID = 3)

```
SELECT DISTINCT PetID
FROM PetRegistration
WHERE ShopID = 3
```

	PetID
1	2
2	5

Make a SQL query to show the number of pets at a given petshop.

There is 3 registered pets at Dyr til dig. Which we also can find out by the method Count:

```
SELECT *
FROM PetRegistration
WHERE ShopID = 3
```

	RegistrationID	PetID	ShopID	RegistrationDate
1	2	2	3	2020-05-29
2	5	2	3	2020-09-10
3	4	5	3	2020-09-10

```
SELECT COUNT(*) AS [Number in store]
FROM PetRegistration
WHERE ShopID = 3
```

	Number in store
1	3