1st Database Hand in : Pets and Petshops Database

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Hand-in Description:

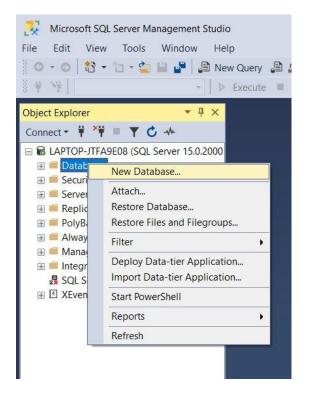
- Make a table Pet with id, type (e.g. bird), breed (e.g. dove) and price.
- Make a table Petshop with id, name and address.
- Make the database so a certain kind of pet can be in many petshops and a petshop can have many different pets.
- A petshop should be able to have many of a certain kind of pet. Set up the necessary relations.
- Populate the tables with typical data.
- Make a SQL query to show the pets of a given type.
- Make a SQL query to show where a given kind of pet can be found.

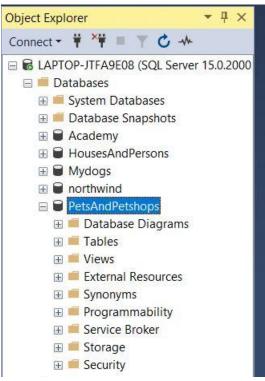
And try to:

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

Databases

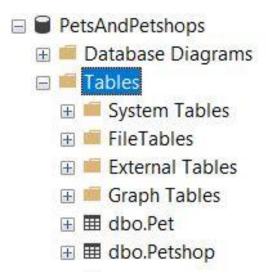
I started off creating a new Database called PetsAndPetshops. To create my tables in.





Tabels

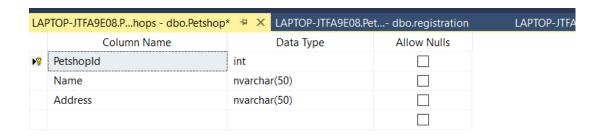
I then created two new tabels, one called Pets and another called Petshop.

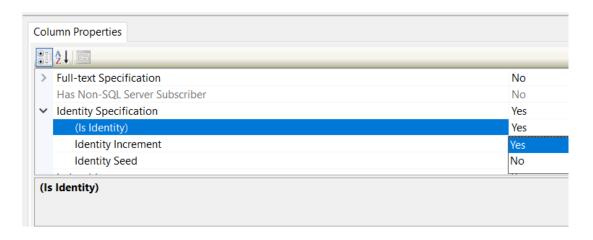


Inside the table Pet I then put in the data which the assignment is required. I put in the ID and called it PetId, put the datatype as int, and didn't check 'allow null'. Then I made it a Primary key by pressing the little black key. I put in 3 other columns containing PetType, PetBreed and PetPrice, I gave Type and Breed the datatype nvarchar and PetPrice the int datatype since it's numbers only being used in that section. I also didn't check the 'allow null' either.

I then proceeded to do the same on Table Pets, but called the ID PetshopId, again with int as datatype. And put in Name and Address as the other columns, also with nvarchar and not checked on 'allow null'.

LA	PTOP-JTFA9E08.Phops - dbo.Petshop	* Laptop-Jtfa9e08.p€	LAPTOP-JTFA9E08.Pet dbo.registration		
	Column Name	Data Type	Allow Nulls		
▶ ॄ	PetId	int			
	PetType	nvarchar(50)			
	PetBreed	nvarchar(50)			
	PetPrice	int			





I chose in both the Pet and Petshop table to change the Identity specification from Is Identity 'no' to 'yes' so it will automatically put in the ID number when changing.

Inside both the Pet and Petshop table I then went into editing first Pet, by putting in data for the columns. Where I then proceeded to fill in random animal types/categories, their breeds and a price for them. In Petshop I then filled in names of Petshops and addresses for them. Since I changed the Identity specification to yes it will automatically count the next ID number.





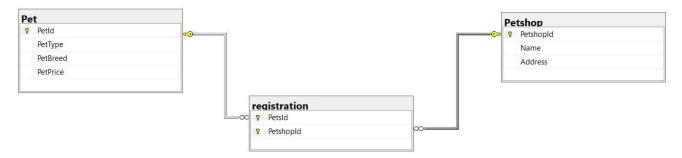
In order to make a Many to many relation I then chose to create a third table, a join table, called Registration. In that I put in two ID's matching both Petshop and Pet's ID's and made them both primary keys, with int datatypes.



That way I could create a database diagram where I could put in the two other tables to make the multiple ID's connection.

I would then drag PetId to the Registration table window where the ID matching PetId, then I made sure all the information were correct and that it said FK (foreign key), before pressing ok/accept.

That then creates the connection between those two tables. I then did the exact same thing with Petshopld and the ID matching that in the Registration table. This way all 3 tables are connected.



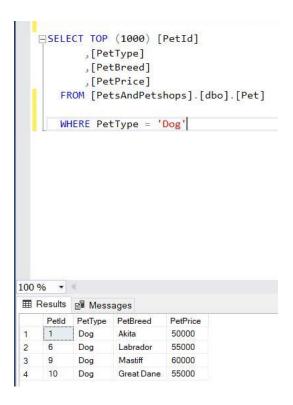
Then I filled in the typical data in the Registration table with the ID numbers from Petsopld and Petld. So now the animals data are assigned to a petshop or more petshops.

	PetsId	PetshopId	
	1	1	
	6	1	
	10	1	
	5	1	
	8	1	
	2	4	
	2	3	
	3	2	
	4	4	
	9	2	
	7	3	
	8	3	
ŵ	NULL	NULL	

SQL

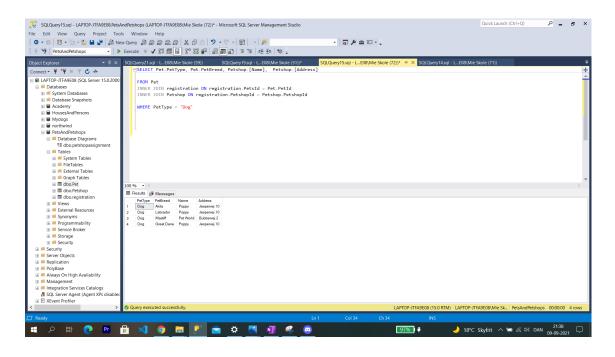
Question 1.

Using the Pet tables Query with the pre-typed query code, it shows every column in that table when executed, so in order to show the pets of a given type, I then wrote WHERE PetType = 'Dog'. This will focus on the PetType column where I then define what specific type of animal I want to show up when I print.



Question 2.

Since I made a Many to Many relation, I can then in the Query try to show where to find a specific kind of animal/ breed from the Pet table, and where to find them and in what shop from the Petshop table. In order to do that I use INNER JOIN to join the tables together by telling the program I wanted to INNER JOIN my Join table registration and it's ID's to the matching ID's from the two other tables. example: INNER JOIN registration (the join table) ON registration.PetsId (registration ID1) = Pet.PetId, meaning we want the registration PetsID to = PetId from the Pet table.



In this picture I use the same method as before using WHERE PetType = 'Dog', to show the one animal.

However I could also remove that part of the code to show all the types of animals and where to find them. As seen in the picture below.

