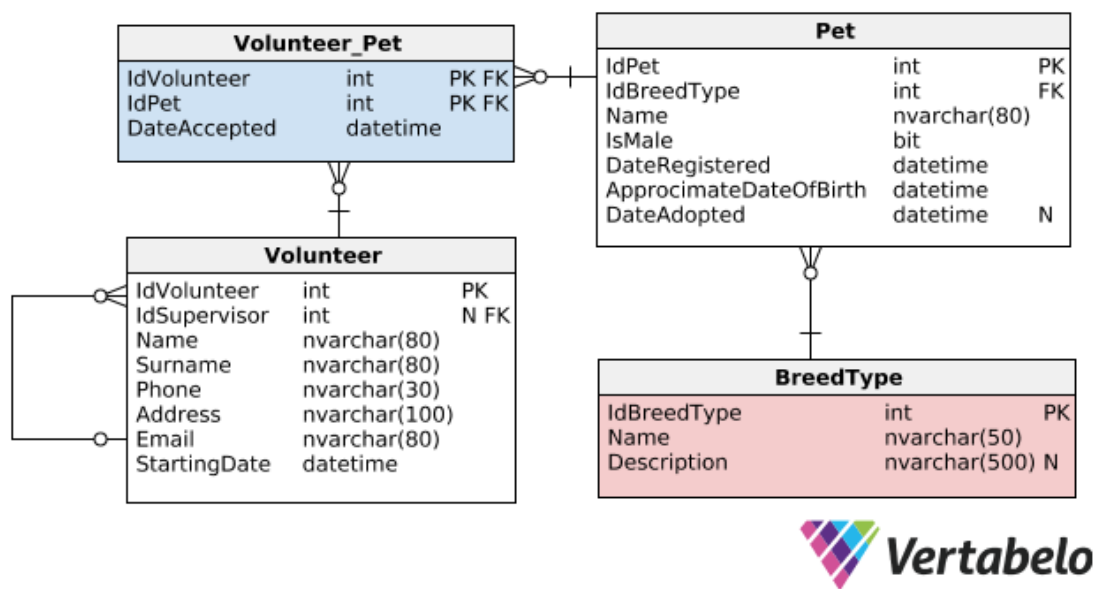# Test 2

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Below is a diagram of the database used in the following test. The test should be implemented using .Net Core (version $> 3.0$). You can use db-mssql or your own local database (if you have one). You should use CodeFirst.



1. Design an endpoint that will return list of pets that have DateRegistered starting with a given year. If "year" is not provided, the endpoint should return a list of all pets. For every pet the list of volunteers should be included (Name, Surname and phone number). The result should be sorted by DateRegistered in ascending order. Remember to return the appropriate error codes.

   ```
   GET /api/pets?year=2017 HTTP/1.1
   ```

2. Design an endpoint which will allow you to add a pet to the database. We should check whether a breed of a given pet exists in the database, if it doesn't we should add a breed to the database first.

```
POST /api/pets HTTP/1.1
{
    "BreedName": "Australian Cattle Dog",
    "Name": "Max",
    "IsMale: "1",
    "DateRegistered": "2020-02-02 07:07:12",
    "ApprocimatedDateOfBirth: "2020-02-02 07:07:12"
}
```

Please, remember about:

- Properly naming variables, controllers, etc.

- Maintaining an appropriate code structure.

- Error handling.

- Injecting dependencies in the right places.