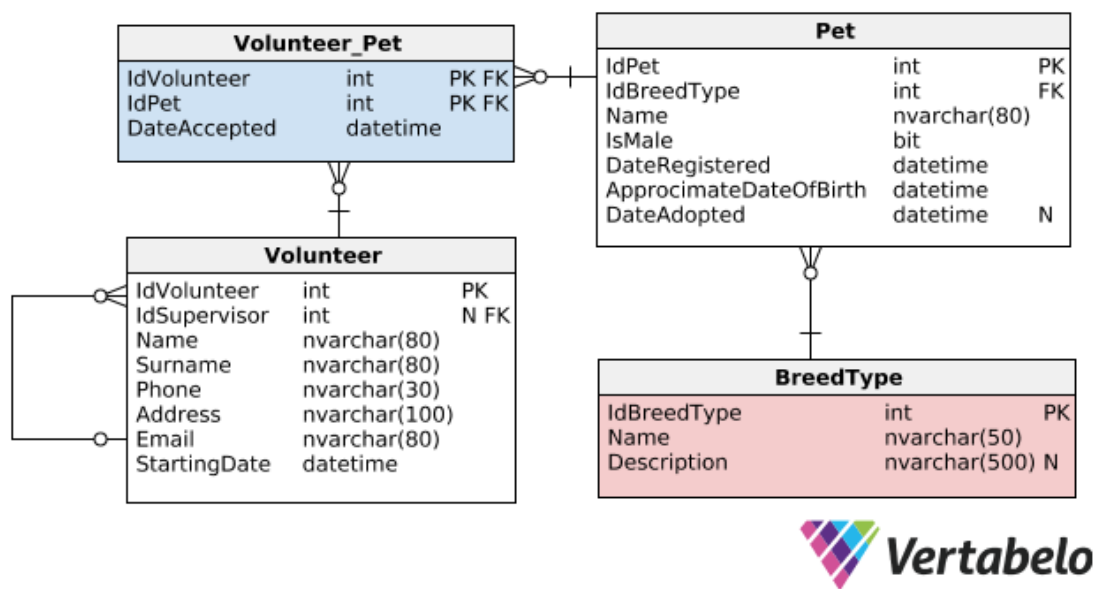# Test 2

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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 a given volunteer accepted starting with a given year. If "year" is not provided, the endpoint should return a list of all pets for a given volunteer. Additionally, we want to calculate the approximate age of the dog at the point in time when it was accepted by a volunteer. The result should be sorted by DateAccepted in descending order. Remember to return the appropriate error codes.

   ```
   GET /api/volunteers/1/pets?year=2017 HTTP/1.1
   ```

2. Design an endpoint which will allow you to assign a pet to a volunteer. Volunteer should have no supervisor to be able to have pets assigned, otherwise you must stop processing your request and inform the user.

```
POST /api/volunteers/1/pets HTTP/1.1
{
    "idPet": 2
}
```

Please, remember about:

- Properly naming variables, controllers, etc.

- Maintaining an appropriate code structure.

- Error handling.

- Injecting dependencies in the right places.