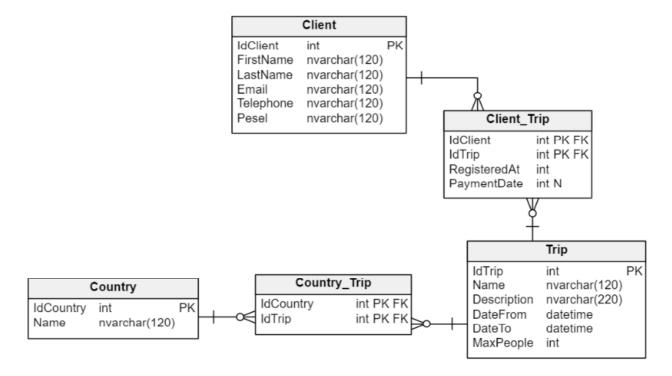
In this task, we use the Entity Framework Core - Database First approach to implement the requirements.



We are creating a new application using the above database.

- Create a new REST application
- Generate the necessary classes using the EF Database First approach
- Prepare endpoints to implement the following functionalities
- 1. Endpoint for HTTP GET request /api/trips
 - 1. The endpoint should return a list of trips sorted in descending order by the trip start date.
 - 2. Add an optional ability to paginate the results using query string and the parameters page and pageSize. We can assume the default pageSize is 10.
 - 3. Example response:

```
{
"pageNum": 1,
```

```
"pageSize": 10,
    "allPages": 20,
    "trips": [
        {
            "Name": "ABC",
            "Description": "Lorem ipsum...",
            "DateFrom": "",
            "DateTo": "",
            "MaxPeople": 20,
            "Countries": [
                 {
                     "Name": "Poland"
                 },
                 {
                     "Name": "Germany"
                 }
            ],
            "Clients": [
                 {
                     "FirstName": "John",
                     "LastName": "Smith"
                 },
                 {
                     "FirstName": "Jake",
                     "LastName": "Doe"
                 }
            ]
        }
    ]
}
```

- 2. Prepare an endpoint to delete a client
 - Requests should be accepted at the HTTP DELETE address /api/clients/{idClient}
 - 2. The server should first check if the client has any assigned trips. If the client has at least one trip, we return an

appropriate error code with a readable message.

- 3. Prepare an endpoint that allows assigning a client to a trip
 - Requests should be accepted at the HTTP POST address /api/trips/{idTrip}/clients
 - 2. The server should, during the request processing:
 - 1. Check if a client with the given PESEL number already exists if so, return an error.
 - 2. Check if a client with the given PESEL number is already registered for the given trip if so, return an error.
 - Check if the given trip exists and if DateFrom is in the future. We cannot register for a trip that has already occurred.
 - 4. PaymentDate can be NULL for clients who have not yet paid for the trip. Additionally, RegisteredAt in the Client_Trip table should match the time the request was received by the server.
 - 3. Example parameters sent in the request (the date may be sent in a different format):

```
"FirstName": "John",
    "LastName": "Doe",
    "Email": "doe@wp.pl",
    "Telephone": "543-323-542",
    "Pesel": "91040294554",
    "IdTrip": 10,
    "TripName": "Rome",
    "PaymentDate": "4/20/2021"
}
```

•	Remember to use correct names, and separation between Ul/infrastructure/logic. Remember to use appropriate models.