

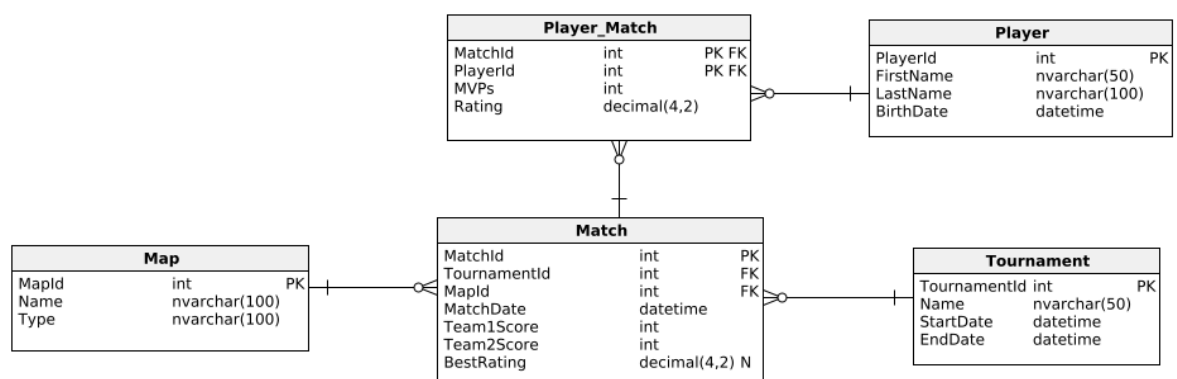
Test 2D

In this task, you are required to design a web API application with the use of **EF** in **CodeFirst** approach.

Database

The database we are using is presented below.

Add **example data** for each table.



Endpoints

Design an endpoint that returns information about a given player's match participations.

The endpoint should respond to requests at the following address:

GET /api/players/{id}/matches

Example:

HTTP GET <http://localhost:5000/api/players/{id}/matches>

Example data that should be returned:

```
{
  "playerId": 1,
  "firstName": "Alex",
  "lastName": "Smith",
  "birthDate": "2000-05-20",
  "matches": [
    {
      "tournament": "CS2 Summer Cup",
      "map": "Inferno",
      "date": "2025-07-02T15:00:00",
      "MVPs": 3,
      "rating": 1.25,
      "team1Score": 16,
      "team2Score": 12
    },
    {
      "tournament": "CS2 Summer Cup",
      "map": "Mirage",
      "date": "2025-07-03T18:00:00",
      "MVPs": 2,
      "rating": 1.10,
      "team1Score": 10,
      "team2Score": 16
    }
  ]
}
```

Design an endpoint that allows us to add a new player along with their match participation.

- If the player's rating is better than the one previously saved, the value should be updated.

The endpoint should respond to requests at the following address: POST /api/players

Example:

HTTP POST http://localhost:5000/api/players

Example data included with the request:

```
{
  "firstName": "Emily",
  "lastName": "Johnson",
  "birthDate": "1999-03-22",
  "matches": [
    {
      "matchId": 1,
      "MVPs": 2,
      "rating": 1.18
    },
    {
      "matchId": 2,
      "MVPs": 4,
      "rating": 1.32
    }
  ]
}
```

The endpoint should return the appropriate status in the following cases:

- A match with the given ID does not exist,
- The data fails validation.

Notes

- A program that does not compile - **0 points**
- Test has to be solved with **CodeFirst** approach
- No migrations - **0 points**
- Solved test without example data: **-50%**
- A program that is not in a GitHub repository - **0 points**
- A program that is plagiarized – **grade 2 (fail) as final score**
- Missing .gitignore file or unnecessary files in repository: - **50%**
- AI – **grade 2 (fail) as final score**