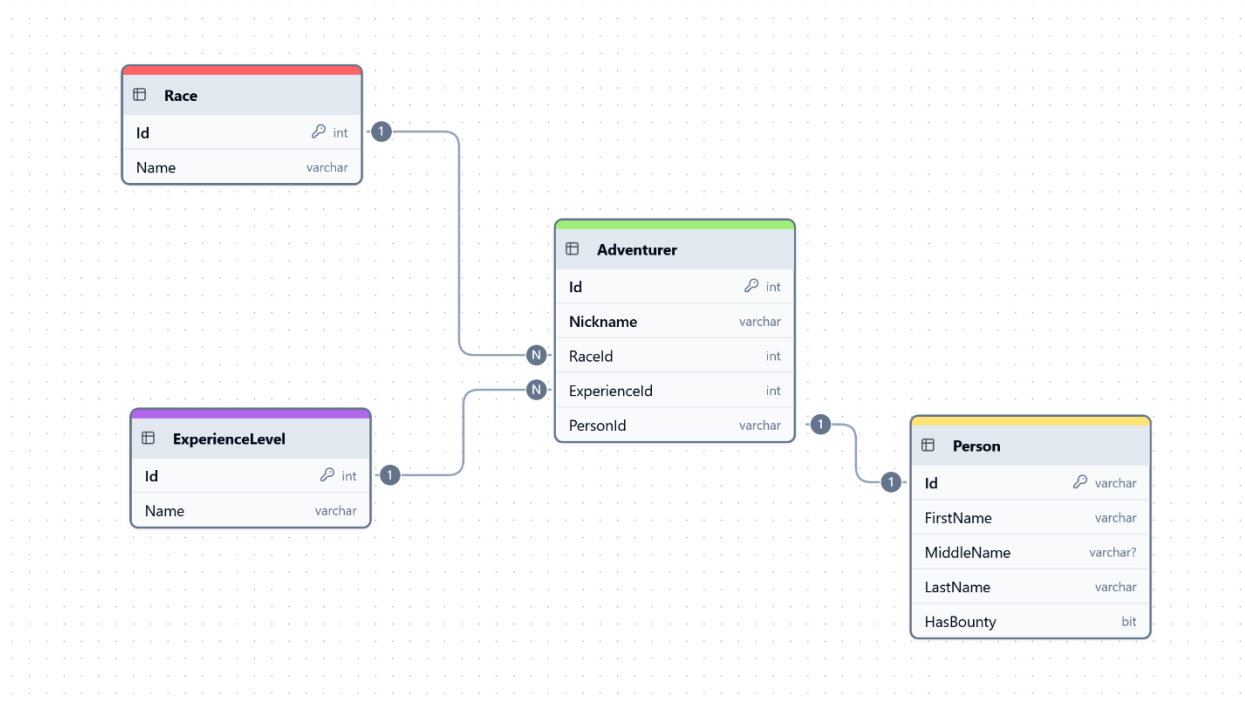


Test one

Description

The “Yawning Portal” Tavern in Faerun is a hub for adventurers to rest, drink, and obtain adventuring licenses. The tavern system diagram, created by PRI artificers, facilitates registration, quest assignment, and dungeon access. Now, tavern asks us, APBD developers, to create first part of a system, that will allow to register adventurers, based on provided data.

Task



Picture 1 – diagram of tavern system database.

REST API URI endpoints:

- For adventures (/api/adventurers)
 - o Get all adventurers (GET method)
 - Should return only ID and nickname.

- Get specific adventurer (GET method)
 - ID should be accepted as path parameter
 - Response body example you can find in file “get_specific_adventurer.json”
- Create a new record of adventurer (POST method)
 - Request body example you can find in file “create_adventurer.json”.
 - If the adventurer has any bounties, creation should be cancelled, and the endpoint should return code 403 (Remember to use transaction here).
 - A person can register only once (remember about relationships between tables).
 - Validate person data ID. It has to contain next format: “XX000011223456XX”, where X – any letter from A-Z, 0000 – year of birth and has next range [0001, 9999], 11 - month of birth and has next range [01, 11], 22 – day of birth and has next range [01, 28], 3456 – random number created from noise and has next range [0000-9999].

Additional requirements

- Solution should have name “TavernSystem”.
- Exceptions should be handled properly in API.
- Projects must be in “src” folder.
- Split your code into several projects:
 - API should be in project “TavernSystem.API”.
 - Models, that describes database, should be in project “TavernSystem.Models”.

- Logic for work with database should be in project “TavernSystem.Repositories”
 - Application logic should be in project “TavernSystem .Application”.
- Stick with SOLID principles.
- Use dependency injection (lifetime – transient).
- Create README.md (should be in root of Git repository) and describe what should appsettings.json configuration file contain, to successfully launch your application.
- SQL scripts can't be modified.