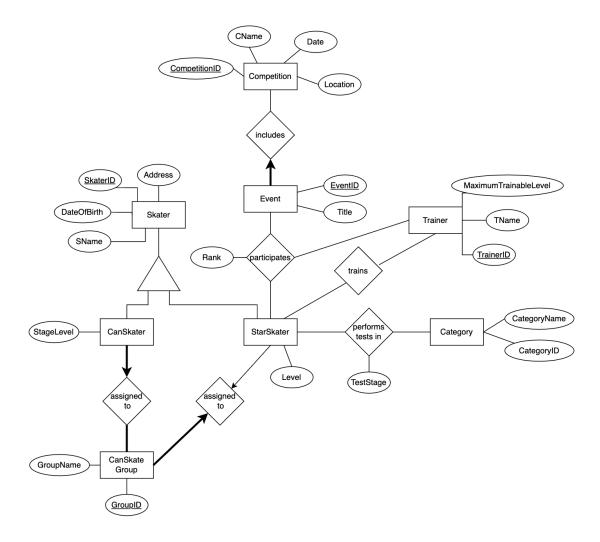
Student: A1-G267

E/R Diagram



Relational Schema

Entities

- Skater(<u>SkaterID</u>, DateOfBirth NOT NULL, SName NOT NULL, Address)
- CanSkater(<u>SkaterID</u>, StageLevel NOT NULL)
- CanSkateGroup(GroupID, GroupName UNIQUE NOT NULL)
- StarSkater(SkaterID, Level NOT NULL)
- Category(CategoryID, CategoryName UNIQUE NOT NULL)
- Trainer(<u>TrainerID</u>, TName NOT NULL, MaximumTrainableLevel NOT NULL)
- Event(<u>EventID</u>, Title UNIQUE NOT NULL)

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• Competition(<u>CompetitionID</u>, CName UNIQUE NOT NULL, Date NOT NULL, Location)

Relationships

- canSkater_assigned_to(<u>SkaterID</u>, <u>GroupID</u>)
- starSkater_assigned_to(<u>SkaterID</u>, <u>GroupID</u>)
- performs_tests_in(<u>SkaterID</u>, <u>CategoryID</u>, TestLevel)
- trains(<u>SkaterID</u>, <u>TrainerID</u>)
- skater_participates_in(<u>SkaterID</u>, <u>EventID</u>, <u>TrainerID</u>, Rank)
- comptetition includes(<u>EventID</u>, <u>CompetitionID</u>)

Constraints

There are 5 constraints in the E/R diagram

- 1. CanSkaters is in exactly in 1 CanSkateGroup
- 2. CanSkateGroup has at least 1 CanSkater (or else, there wouldn't be a valid group)
- 3. CanSkateGroup has exactly 1 StarSkater coach
- 4. StarSkater is assigned to/coaches at most 1 CanSkateGroup
- 5. An Event is part of exactly 1 Competition