Sports Engine

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Main Project Idea:
Sports page for sports fans to view teams and players from various sports.

Approach:
- Elements of MVC (model view controller) design pattern for web app.

Potential Users:
- Users (sports fans)
- System administrators

System-wide interactions:
- Users:
    - Navigate sports, divisions, teams, and view players
- Admins:
    - Add, delete, modify sports, divisions, teams, players.

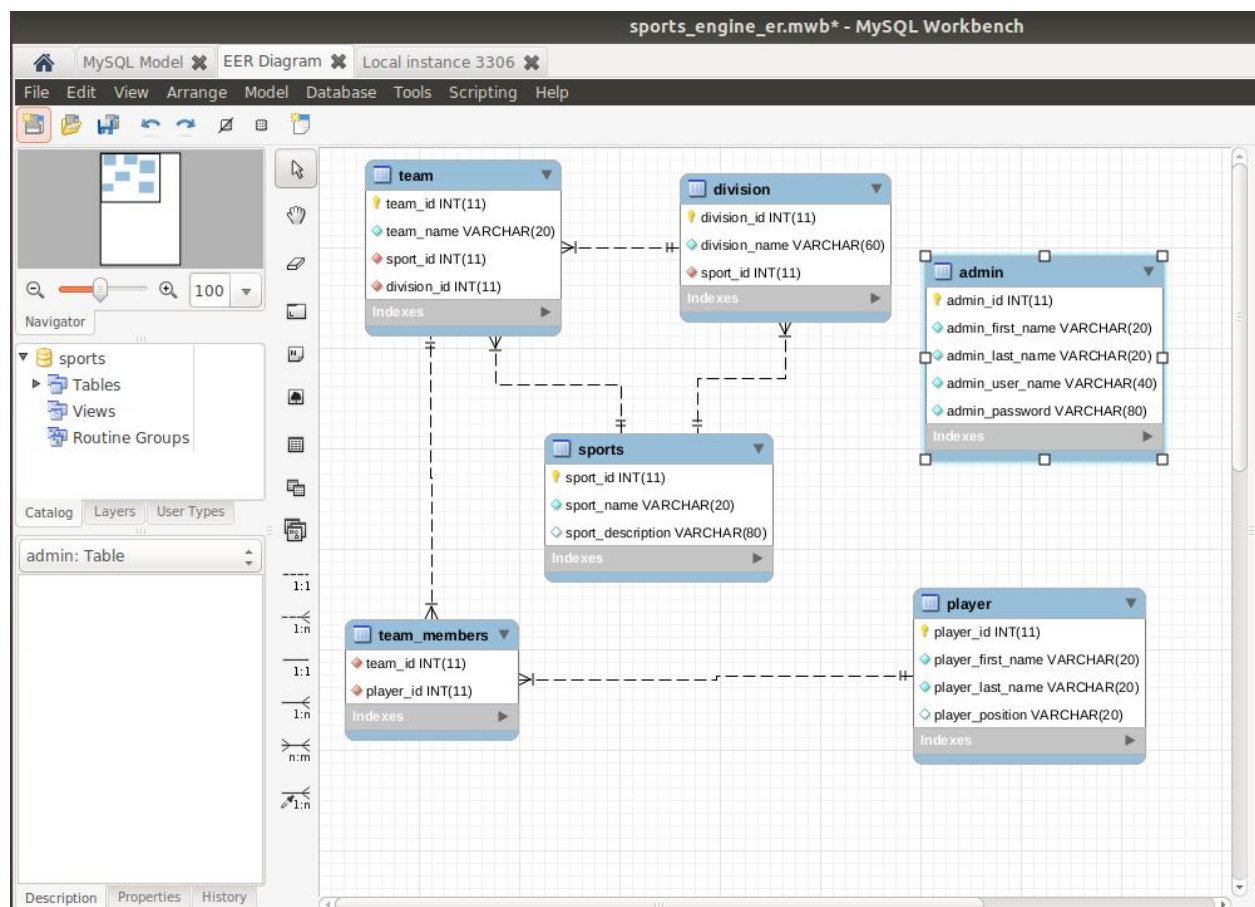*Tables and their properties:*
- Sports:
    - Sport_id (primary key)
    - Sport_name
    - sport_description

- Team
    - Team_id (primary key)
    - Team_name
    - Sport_id (foreign key)
    - Division_id (foreign key)

- Team_members
    - Team_id (foreign key)
    - Player_id (foreign key)

- Player
    - Player_id (primary key)
    - Player_first_name
    - Player_last_name
    - Player_position

- Division:

- Division_id (primary key)
- Division_name
- sport_id (foreign key)

Admin:
- Admin_id (primary key)
- Admin_first_name
- Admin_last_name
- Admin_user_name
- Admin password

E-R Diagram

Normalization

Our table is normalized. We have organized our tables in such a way that reduces redundancy. Our tables have been reduced in size and are linked by id's to provide appropriate relationships between them.