Project – 1: Integrated Academic & Personnel Database – Modelling

Suppose you are given the following requirements for a simple database for the National Hockey League (NHL):

*the NHL has many teams,

*each team has a name, a city, a coach, a captain, and a set of players.

*each player belongs to only one team,

*each player has a name, a position (such as left wing or goalie), a skill level, and a set of injury records,

*a team captain is also a player,

*a game is played between two teams (referred to as host_team and guest team) and has a date (such as May 11th, 1999) and a score (such as 4 to 2).

Construct a clean and concise ER diagram for the NHL database using the Chen notation as in your textbook. List your assumptions and clearly indicate the cardinality mappings as well as any role indicators in your ER diagram.

---

title NHL Database

team [icon: users]{

  teamId string pk

  name string

  city string

  coach string

  captainId string fk

}

player [icon: user]{

  playerId string pk

  name string

  position string

  skillLevel string

  teamId string fk

```
}
captain [icon: user-check]{
  captainId string pk
  playerId string fk
}
injuryRecord [icon: file-text]{
  injuryRecordId string pk
  details string
  playerId string fk
}
game [icon: calendar]{
  gameId string pk
  date timestamp
  score string
  hostTeamId string fk
  guestTeamId string fk
}

Eraser ERD:
team.playerId > player.teamId
player.injuryRecordId > injuryRecord.playerId
captain.playerId - player.captainId
game.hostTeamId <> team.gameId
game.guestTeamId <> team.gameId
```