

Exercise Session: 1b

11 November 2017

1 E-R Modelling (2 parts, 12p)

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

- the NHL has many teams,
- each team has a name, a city, a coach and a set of players,
- each player belongs to maximum one team,
- a team's name is only unique in their own city
- each player has a name, a unique person number (abbreviated as "pn"), a position (such as left wing or goalie), a skill level, and a set of injury records,
- an injury record has a description and an id, but the id on its own is not unique (the combination of person number and injury record id is unique),
- a game is played between two teams (referred to as host and guest) and has a date (such as May 11th, 1999) and a score (such as 4 to 2).
- there can be only 2 games per couple of teams (A, B) per season: one where A is the host and B the guest, and the other where B is the host and A is the guest
- a team can not play a game against itself

1a. Draw an Entity-Relationship diagram for this domain, listing any assumptions you make. Do not use multivalued attributes. (7p).

1b. Give the corresponding relational database schema (5p).