CSE 3330 – Project #1 – ER Diagram

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 salary, 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, 2017) and a score (such as 4 to 2).

Part 1: ER Diagram

1. Construct a clean and concise ER diagram for the NHL database. List your assumptions and clearly indicate the cardinality mappings.

Part 2: SQL Queries

2. Write SQL queries OR use a simple Web interface to get the results of the following queries:
3. Enter a team name and retrieve all the names and salaries of all team members who play on that team.
4. Enter a player's last name and first name and retrieve a list of their injuries.
5. List all captains and the team they play for.
6. For each team, retrieve the name and the number (count) of players on that team. Order the result by number of players in descending order.
7. For each host_team list the team's name and the number of wins and losses of that team.

You should turn in via Canvas to a document that includes:

1. Which tools you used for the project. (Readme file)
2. ER Diagram
3. Source code of SQL CREATE statements, or screen shots of how you created the tables via one of the tools.
4. Explain which method you used to load the data into the tables.
5. Source code of SQL SELECT statements for each query executed, showing the query result; OR screen shots of your simple Web interface that was used to execute the queries and show the query results.