**ACS-2814-002 Assignment #1**

Due by Feb. 12, 2019

Submit your responses to the questions below via an email to:

[acs2814lab@gmail.com](mailto:acs2814lab@gmail.com)

If the gmail email does not work, send your assignments to Kasra7777@yahoo.com.

Create a database to keep track of NHL teams, players, and the games they play. An Excel spreadsheet, As1.xlsx (<http://ion.uwinnipeg.ca/~ychen2/access2814/As1.xlsx>), has data for an initial load.

There are three tables: Team, Player, and Game. Each table must have a primary key, relationships between tables must be deﬁned, and relationships must enforce referential integrity.

Each team has a name, a coach, a location, and several players. Team ID is the primary key.

For each player we keep track of their ﬁrst and last name, jersey, position, height in feet and inches, weight, date of birth, and where they were born. The primary key is composite, composed of team name and jersey number.

There are several games where each game involves exactly two teams: one team is designated the home team and the other is the visiting team. Each game has a game ID (primary key) and we know when the game is played and, where possible, the scores for each team (home score, visitor score).

Choose datatypes that are most appropriate for each ﬁeld. For instance names must be text, dates must be date/time and scores must be numeric (integer with 0 decimal places).

- Make all ﬁelds required, except for scores in the Game table and shot in the Player table (since games have yet to be played and goalies have no value for shot).

- Include a validation rule and text for scores: scores must be greater than or equal to zero.

- Add an appropriate Format and Input mask for TeamID - Set other properties that you ﬁnd appropriate.

Create the following relationships, and include a lookup for each foreign key.

1. A team has many players / a player belongs to one team

2. A game has one home team / a team may be the home team in many games

3. A game has one vising team / a team may be the vising team in many games

Add some data manually:

1. Make yourself a player on your favorite team, with a jersey number that is available.

2. Add scores for games that have been played prior to the submission date of your assignment.

Design the following queries:

1. List all players (ﬁrst and last name) on the Vancouver Canucks who were born in Sweden.

2. List all players (ﬁrst and last name, height, weight) on the Winnipeg Jets in order by height. In the case where players are of the same height they must be ordered by weight.

3. List the location and name of the home team for games where the Jets are the visiting team and where the Jets have won the game.