

CSCI 585, Summer 2015, Assignment 2

1 Data model

The same data and specifications from Assignment 1 are to be used here. In this assignment, you will be making more advanced queries.

2 Queries on the database

1. List *the names* of all golfers who have a single-round score of less than 80. Use a subquery to accomplish this.
2. How many golfers *have not* played in 2015?
3. How many rounds has each golfer played? You may list this by GolferID or by name, if you prefer.
4. How many rounds has each golfer played *in 2013*? You may list this by GolferID or by name, if you prefer.
5. A *differential* for a round played on a particular set of tees is established by the formula $(\text{Score} - \text{Course Rating}) \times 113$ divided by Slope Rating. Create *a view* (virtual table) that extends the table representing rounds to allow us to also see differentials.
6. Which three distinct golfers have the best (lowest) differential in their history? You may list this by GolferID or by name, if you prefer.
7. Who produced the lowest differential out of all of the members at 'Harding'? You may list this by GolferID or by name, if you prefer.

2.1 Submission Guidelines

1. Your submission should include one `createdb.sql` file, one `dropdb.sql` file, one `projtwo.sql` file, and a `readme.txt` file. Your `readme.txt` file should include your name and student ID and anything else you think we need to know about your submission.
2. `createdb.sql` file should create required types, tables, primary keys, foreign keys, and populate all data provided. **If you do not do this step, we cannot evaluate your queries or your ability to clean-up the database, and those will receive automatic zeroes.**
3. The `dropdb.sql` file should drop all types and tables that are created by `createdb.sql`. There is a 10 point penalty if this file is missing from your submission or if it does not drop all of your database objects.
4. The `projtwo.sql` file should contain the queries in the order they're listed. Include a comment before each query indicating the question number. If you omit one, list that as a comment in place of the query.