# DASC 5333 Database Systems for Data Science CSCI 4333 Design of Database Systems <br> Spring 2023 <br> Homework \#5 

## More SQL

Use the relation schema for the Clear Lake Youth Swimming Team Management System (SWIM) project as the basis of this homework. Create SWIM DB in MySQL by using the script: createSwimDB.sql.txt.

Provide the SQL statements for the following queries. Please pay attention to the column names and formats. The orders of the results are not important unless explicitly stated otherwise.
(1) List the id, fname, Iname of every caretaker who has not committed to the task 'Officiating' (as shown in the commitment table).

(2) List the id, fname, Iname of every caretaker who has committed to at least one task.

(3) List the names of all caretakers who committed to two or more tasks in the following manners. List also the ids of all the committed tasks.

(4) List the id, fname, Iname of every 'enthusiastic' caretaker in the following manner: a person who
[1] is a primary caretaker,
[2] is a secondary caretaker, and
[3] has committed to two or more tasks.

(5) List all caretaker names, with their committed task names and the event names of the committments in the following manner. Note that caretakers without amy committed task should also be shown. E.g. Benjamin Smith.

| LName | FName | Task Name | Meet Title |
| :---: | :---: | :---: | :---: |
| Khan | Azalea | Officiating | UHCL Open |
| Khan | Azalea | Diecting traffic | UHCL Open |
| Khan | Azalea | Officiating | Shell Trial |
| Khan | Azalea | Recording | Shell Trial |
| Khan | Joseph | Recording | UHCL Open |
| Khan | Joseph | Recording | Shell Trial |
| Khan | Jim | Recording | UHCL Open |
| Johnson | Katie | Officiating | UHCL Open |
| Johnson | Katie | Officiating | Shell Trial |
| Johnson | Katie | Recording | Shell Trial |
| Johnson | Elizabeth | Recording | UHCL Open |
| Johnson | Elizabeth | Officiating | Shell Trial |
| Johnson | Elizabeth | Diecting traffic | Shell Trial |
| Smith | Benjamin |  |  |

(6) List the ids, names of caretakers, and their numbers of commitments. in the meet 'UHCL Open' in the following manner and order (by the descending order of the number of committed tasks in UHCL Open.)

(7) (Bonus: 20\%) For every swimmer, list the id, name, number of events participated in, the number of levels achieved (in the level history), and the number of secondary caretakers (as in the othercaretaker table) in the following manner.


Turn in DASC5333_<<Section \#>>_H5_<<Your name>>_<<Your Student ID>>.sql.txt (or CSCI4333 as the prefix) and submit your homework through Blackboard. It must be done in a text format executable by the TA using the source command, or using copying and pasting into a SQL client.

