

CSCI 4333
Design of Database Systems
Fall 2020
Homework #6

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 following scripts: [createSwimDB.sql.txt](#) and [PopulateSwim.sql.txt](#).

Provide the SQL statements for the following queries.

(1) Provide the id and name of every swimmer who has achieved a level of Id 3, as recorded in the level history of the database.

```
+-----+-----+-----+
| swimmerId | LName   | FName |
+-----+-----+-----+
|          4 | Johnson | Clara |
|          1 | Khan   | Bobby |
+-----+-----+-----+
2 rows in set
```

(2) Provide the meet name, venue name and the coach name of all meets offered in the year 2016 in the following manner. Note that the function YEAR(d) returns the year of the date d.

```
+-----+-----+-----+
| title      | venue   | coach   |
+-----+-----+-----+
| UHCL Open  | UHCL    | Joe Smith |
| Shell Trial | CLHS    | Joe Smith |
+-----+-----+-----+
2 rows in set (0.001 sec)
```

(3) Provide the names of all other care takers (but not the main care taker) of a swimmer with currentLevelId of 2.

```
+-----+-----+
| FName | LName |
+-----+-----+
| Jim    | Khan  |
| Azalea | Khan  |
+-----+-----+
2 rows in set
```

(4) Provide the meet names task names and the caretaker ids and names committed to the tasks of a meet on the year 2016 in the following manner.

```
+-----+-----+-----+
| title      | task          | caretaker      |
+-----+-----+-----+
| UHCL Open  | Officiating   | Azalea Khan    |
| UHCL Open  | Diecting traffic | Azalea Khan    |
| UHCL Open  | Recording     | Joseph Khan    |
| UHCL Open  | Recording     | Jim Khan       |
| UHCL Open  | Officiating   | Katie Johnson  |
| UHCL Open  | Recording     | Elizabeth Johnson |
| Shell Trial | Officiating   | Azalea Khan    |
| Shell Trial | Recording     | Azalea Khan    |
| Shell Trial | Recording     | Joseph Khan    |
| Shell Trial | Officiating   | Katie Johnson  |
| Shell Trial | Recording     | Katie Johnson  |
| Shell Trial | Officiating   | Elizabeth Johnson |
| Shell Trial | Diecting traffic | Elizabeth Johnson |
+-----+-----+-----+
13 rows in set (0.004 sec)
```

(5) Provide the names of all swimmers with two or more 'other caretakers' in the following format.

```
+-----+
| swimmer |
+-----+
| Bobby Khan |
| Nina Khan  |
+-----+
2 rows in set
```

(6) List the names of all caretakers (main and other/secondary) of every swimmer in the following manner.

```
+-----+-----+-----+
| swimmer      | caretaker      | type      |
+-----+-----+-----+
| Bobby Khan   | Jim Khan       | secondary |
| Bobby Khan   | Joseph Khan    | secondary |
| Bobby Khan   | Azalea Khan    | primary   |
| Billy Khan   | Jim Khan       | secondary |
| Billy Khan   | Azalea Khan    | primary   |
| Nina Khan    | Jim Khan       | secondary |
| Nina Khan    | Azalea Khan    | secondary |
| Nina Khan    | Joseph Khan    | primary   |
| Clara Johnson | Elizabeth Johnson | secondary |
| Clara Johnson | Katie Johnson  | primary   |
| Philip Johnson | Elizabeth Johnson | primary   |
| Joe Fen      | Katie Johnson  | primary   |
```

```
+-----+-----+-----+
12 rows in set
```

(7) List the name of the swimmers who have participated in both a '50M Butterfly' event and a '100M Butterfly' event in the following format.

```
+-----+
| swimmer |
+-----+
| Clara Johnson |
+-----+
1 row in set
```

(8) List the names of all swimmers and the total numbers of events they have participated in using the following format. List only those swimmers that do not have the last name 'Khan' and have participated in three or more events.

```
+-----+-----+
| Swimmer | Number of Events |
+-----+-----+
| Clara Johnson | 4 |
| Philip Johnson | 4 |
+-----+-----+
2 rows in set
```

Turn in CSCI4333_<<Section #>>_H6_<<Your name>>_<<Your Student ID>>.sql.txt and submit your homework through Blackboard. It must be done in text format executable by the TA using the source command.