DASC 5333 Database Systems for Data Science CSCI 4333 Design of Database Systems Spring 2023 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).

+-		+	+
	CT_Id		
+-	+-	+	+
	2	Khan	Joseph
	3	Khan	Jim
	6	Smith	Benjamin
+-	+-	+	+
3	rows in	set (0.	002 sec)

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

+-	+-		+-	+
	CT Id	LName	1	FName
+-	+-		+-	+
	1	Khan		Azalea
	2	Khan		Joseph
	3	Khan		Jim
	4	Johnson		Katie
	5	Johnson		Elizabeth
+-	+		+-	+
5	rouge in	co+ (0 0	\cap	2 8061

5 rows in set (0.000 sec)

(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.

+	'	++ task ids
1	1	++ 1; 3; 4; 5
		2; 5
•	Elizabeth Johnson	
+	+	++

4 rows in set (0.000 sec)

- (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.

+	+ enthusiatic caretaker		 sk :	 ids		-+
+	·	+				-+
1	Azalea Khan	1;	3;	4;	5	1
2	Joseph Khan	2;	5			
5	Elizabeth Johnson	2;	4;	6		
+	+	+				+
3 rows in	n set (0.001 sec)					

(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 Khan Khan Khan Khan Khan Johnson Johnson Johnson Johnson Johnson Johnson Johnson	Azalea Azalea Azalea Azalea Joseph Joseph Jim Katie Katie Katie Elizabeth Elizabeth Benjamin	Officiating Diecting traffic Officiating Recording Recording Recording Recording Officiating Officiating Recording Recording Officiating Diecting Diecting traffic	UHCL Open UHCL Open Shell Trial Shell Trial UHCL Open Shell Trial UHCL Open UHCL Open UHCL Open Shell Trial Shell Trial UHCL Open Shell Trial Shell Trial UHCL Open Shell Trial UHCL Open Shell Trial

14 rows in set (0.000 sec)

(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.)

CT_Id caretaker	+			+							- +
2 Joseph Khan 1 3 Jim Khan 1 1 4 Katie Johnson 1 5 Elizabeth Johnson 1		CT_Id	caretaker	Numbe	r of	committed	tasks	in	UHCL	Open	ا
	+	2 3 4 5	Joseph Khan Jim Khan Katie Johnson Elizabeth Johnson	+ 						2 1 1 1 1 0	

6 rows in set (0.001 sec)

(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.

SwimmerId	•	•	+ # events participated	# secondary caretakers				
1	Bobby Khan	3	,	2				
1 2	Billy Khan	2	4	1				
3	Nina Khan	1 2	1 5	2				
4	Clara Johnson] 3	4	1				
1 5	Philip Johnson	1 2	4	0				
1 6	Joe Fen	1 2	1	0				
+	+	+	+	+				
6 rows in set (0.001 sec)								

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.