CS3425 Final Project

Fall 2018 100 points, 20% of the overall grade

Report Due date: 11:59pm, Tuesday May 1st.

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Website Link : https://classdb.it.mtu.edu/~djlamber/IceSkatingCamps/home.html
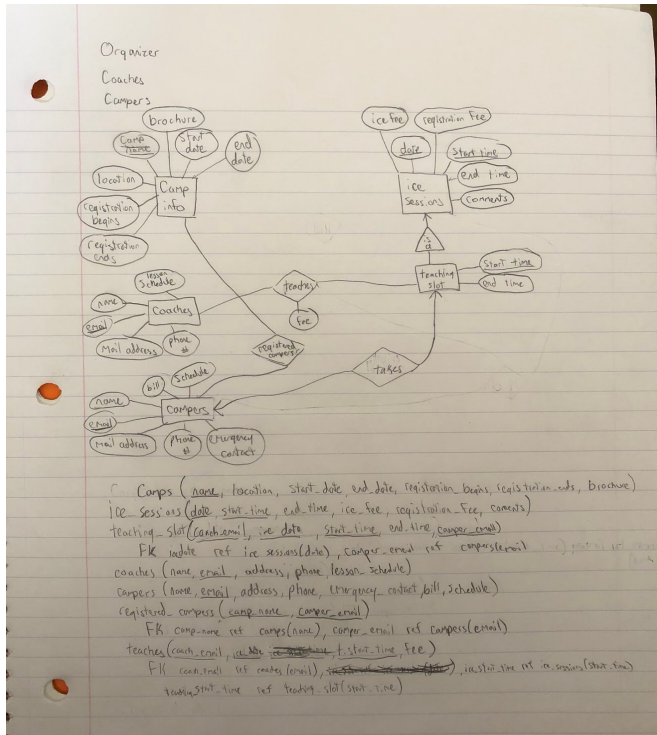
Project description:

In this project, you will design and implement a simplified version of online registration system for Ice Skating Camps. The system will be used by the skating camp coordinator, coaches and campers. If there is any ambiguous requirement to you, write down your assumptions in your project report.

a) The organizer creates the camp info: camp name, start date, end date, and location. We also need to store a brochure, which is a pdf file about the camp. The organizer will decide when the registration begins and when it ends. The database only need to support one camp for this project.

b) The organizer decides the registration fee and ice fees per ice session

c) The organizer creates ice sessions. Each session has a date, start_time,

end_time and comments. Each session is general 45 minutes.

d) The organizer creates teaching slots all sessions. Each session may have

multiple slots. Each slot is generally 15 minutes long. We need to record start time, and end time for each slot.

e) The organizer creates accounts for coaches. The system tracks coach's name,

email, mail address, phone number.

f) The coaches decide how much they charge per 15 minute slot, and pick which

time slots they offer lessons.

g) The campers create their own accounts. The system keeps track of camper's name, email address, mail address, phone number and emergence contact.

h) The campers register a camp during the registration period, and then pick the

lesson time from coaches. The camper can take lessons with multiple coaches. The lessons are one to one, which means no two campers are allowed to choose the same time slot with the same coach.

i) The system creates the bill and schedule for each camper.

j) The system creates the lesson schedule with student name for each coach.

Your Tasks:

1. E-R Model and Relational Schema

      1) Construct an E-R diagram representing the conceptual design of the database.

      2) Be sure to identify primary keys, relationship, cardinalities, etc.

      3) Create relational schema from your E-R design, and refine it based on the principles of

relational design.

2. SQL Schema

Create the tables in Mysql with PK, FK, unique, not null, etc. constraints as appropriate.

create table camps(name varchar(100) primary key, location varchar(100) not null, start_date date not null, end_date date not null, registration_begins date not null, registration_ends date not null, brochure varchar(100) not null);

Create table ice_sessions(ice_date date not null, start_time time not null, end_time time not null, ice_fee double not null, registration_fee double not null, camp varchar(100) not null, primary key (ice_date, start_time, camp), foreign key(camp) references camps(name));

create table campers(name varchar(100) not null, email varchar(100) not null, password varchar(100) not null, address varchar(100) not null, phone varchar(10) not null, emergency_contact varchar(10) not null, bill double not null, primary key (email));

Create table registered_campers(camp_name varchar(100) not null, camper_email varchar(100) not null, primary key (camp_name, camper_email), foreign key (camp_name) references camps (name), foreign key (camper_email) references campers (email));

Create table coaches(name varchar(100) not null, email varchar(100) not null, password varchar(100) not null, address varchar(100) not null, phone varchar(10) not null, fee double not null, primary key(email));

Create table teaching_slot(teaching_date date not null, ice_start_time time not null, slot_start_time time not null, end_time time not null, camp varchar(100) not null, primary key (teaching_date, ice_start_time, slot_start_time, camp), foreign key (teaching_date, ice_start_time) references ice_sessions (ice_date, start_time), foreign key(camp) references camps(name));

Create table teaches(coach_email varchar(100), teaches_teaching_date date not null, teaches_ice_start_time time not null, teaches_slot_time time not null, fee double, camp varchar(100) not null, primary key(coach_email, teaches_teaching_date, teaches_ice_start_time, teaches_slot_time, camp), foreign key(coach_email) references coaches(email), foreign key (teaches_teaching_date, teaches_ice_start_time, teaches_slot_time) references teaching_slot(teaching_date, ice_start_time, slot_start_time), foreign key(camp) references camps(name));

Create table takes(camper_email varchar(100), takes_teaching_date date not null, takes_ice_start_time time not null, takes_slot_start_time time not null, camp varchar(100) not null, primary key(camper_email, takes_teaching_date, takes_ice_start_time, takes_slot_start_time, camp), foreign key(camper_email) references campers(email), foreign key (takes_teaching_date, takes_ice_start_time, takes_slot_start_time) references teaching_slot(teaching_date, ice_start_time, slot_start_time),foreign key(camp) references camps(name));

3. You shall design and implement the following functions for the instructor and the students.

1) Organizer

i. Create camps: name, date, registration fee, ice fee per session, etc.

Create procedure newCamp(name varchar(30), location varchar(30), start_date date, end_date date, registration_begins date, registration_ends date, brochure varchar(100))

Begin

Insert into camps values(name, location, start_date, end_date, registration_begins, registration_ends, brochure);

End //

Grant execute on procedure newCamp to 'cs3425gr'@'%'//

ii. Create sessions and slots

Create procedure newIceSession(ice_date date, start_time time, end_time time, ice_fee double, registration_fee double, camp varchar(100))

Begin

Insert into ice_sessions values(ice_date, start_time, end_time, ice_fee, registration_fee, camp);

End //

Grant execute on procedure newIceSession to 'cs3425gr'@'%'//

Create procedure newTeachingSlot(teaching_date date, ice_start_time time, slot_start_time time, end_time time, camp varchar(100))

Begin

Insert into teaching_slot values(teaching_date, ice_start_time, slot_start_time, end_time, camp);

End //

Grant execute on procedure newTeachingSlot to 'cs3425gr'@'%'//

iii. Create coaches with initial password, information and lesson fee

Create procedure newCoach(name varchar(30), email varchar(30), password varchar(30), address varchar(30), phone varchar(10), fee double)

Begin

Insert into coaches values(name, email, md5(password), address, phone, fee);

End //

Grant execute on procedure newCoach to 'cs3425gr'@'%'//

2) Coaches

i. Login to the system

ii. Pick slots to offer lesson

iii. Display the current lesson schedule

iv. Display the charges to each student

3) Campers

i. Register and login to the system

ii. Choose a camp, choose coaches and lesson slots.

iii. Display the lesson schedule

iv. Display the bill (registration fee, ice fee, lesson fee per coach)

What to turn in to canvas:

To speed up the grading, please submit two files.

1. FinalReport.pdf. Put all the following contents into a pdf file FinalReport.pdf

      1) E-R diagram and relational schema, plus any explanatory notes if you will.

      2) SQL schema script. That is the create table statement.

      3) Do the following three things for each tasks(total 5) below as user cs3425gr, not your account, which means you need to grant permission to cs3425gr appropriately.

      A.The detailed instruction of how to perform the following task

      B. The output of each task (if GUI, please attach screen shot),

      C. Show the related data inside the database before and after the operation to proof that it works correctly

i. Create two coach user Alice and Joe

call newCoach('Alice', 'alice@mail.com', 'password', '1234 Ruby Street', '3334446666', 10);

call newCoach('Joe', 'joe@mail.com', 'password', '1883 Emerald Road', '5557772222', 15);

```
mysql> select * from coaches;
Empty set (0.00 sec)

mysql> call newCoach('Alice', 'alice@mail.com', 'password', '1234 Ruby Street', '3334446666', 0);
Query OK, 1 row affected (0.00 sec)

mysql> call newCoach('Joe', 'joe@mail.com', 'password', '1883 Emerald Road', '5557772222', 0);
Query OK, 1 row affected (0.00 sec)

mysql> select * from coaches;
+-------+----------------+----------------------------------+-------------------+------------+-----+
| name  | email          | password                         | address           | phone      | fee |
+-------+----------------+----------------------------------+-------------------+------------+-----+
| Alice | alice@mail.com | 5f4dcc3b5aa765d61d8327deb882cf99 | 1234 Ruby Street  | 3334446666 |   0 |
| Joe   | joe@mail.com   | 5f4dcc3b5aa765d61d8327deb882cf99 | 1883 Emerald Road | 5557772222 |   0 |
+-------+----------------+----------------------------------+-------------------+------------+-----+
```

ii. Create a new camp Summer18

call newCamp('Summer18', 'Ice Court', '2018-05-07', '2018-5-14', '2018-3-30', '2018-4-30', 'CampBrochure.pdf');

```
mysql> select * from camps;
Empty set (0.00 sec)

mysql> call newCamp('Summer18', 'Ice Court', '2018-05-07', '2018-5-14', '2018-3-30', '2018-4-30', 'CampBrochure.pdf');
Query OK, 1 row affected (0.00 sec)

mysql> select * from camps;
+----------+-----------+------------+------------+--------------------+------------------+------------------+
| name     | location  | start_date | end_date   | registration_begins | registration_ends | brochure         |
+----------+-----------+------------+------------+--------------------+------------------+------------------+
| Summer18 | Ice Court | 2018-05-07 | 2018-05-14 | 2018-03-30         | 2018-04-30       | CampBrochure.pdf |
+----------+-----------+------------+------------+--------------------+------------------+------------------+
1 row in set (0.00 sec)
```

iii. Create 2 days 12 sessions, 36 slots

call newIceSession('2018-05-07', '10:00:00', '10:45:00', 4.5, 10, 'Summer18');

call newIceSession('2018-05-07', '10:45:00', '11:30:00', 4.5, 10, 'Summer18');

call newIceSession('2018-05-07', '11:30:00', '12:15:00', 4.5, 10, 'Summer18');

call newIceSession('2018-05-07', '12:45:00', '13:30:00', 4.5, 10, 'Summer18');

call newIceSession('2018-05-07', '13:30:00', '14:15:00', 4.5, 10, 'Summer18');

call newIceSession('2018-05-07', '14:15:00', '15:00:00', 4.5, 10, 'Summer18');

call newIceSession('2018-05-08', '10:00:00', '10:45:00', 4.5, 10, 'Summer18');

call newIceSession('2018-05-08', '10:45:00', '11:30:00', 4.5, 10, 'Summer18');

call newIceSession('2018-05-08', '11:30:00', '12:15:00', 4.5, 10, 'Summer18');

call newIceSession('2018-05-08', '12:45:00', '13:30:00', 4.5, 10, 'Summer18');

call newIceSession('2018-05-08', '13:30:00', '14:15:00', 4.5, 10, 'Summer18');

```
call newIceSession('2018-05-08', '14:15:00', '15:00:00', 4.5, 10, 'Summer18');


call newTeachingSlot('2018-05-07', '10:00:00', '10:00:00', '10:15:00', 'Summer18');
call newTeachingSlot('2018-05-07' ,'10:00:00', '10:15:00', '10:30:00', 'Summer18');
call newTeachingSlot('2018-05-07', '10:00:00', '10:30:00', '10:45:00', 'Summer18');
call newTeachingSlot('2018-05-07', '10:45:00', '10:45:00', '11:00:00', 'Summer18');
call newTeachingSlot('2018-05-07', '10:45:00', '11:00:00', '11:15:00', 'Summer18');
call newTeachingSlot('2018-05-07', '10:45:00', '11:15:00', '11:30:00', 'Summer18');
call newTeachingSlot('2018-05-07', '11:30:00', '11:30:00', '11:45:00', 'Summer18');
call newTeachingSlot('2018-05-07', '11:30:00', '11:45:00', '12:00:00', 'Summer18');
call newTeachingSlot('2018-05-07', '11:30:00', '12:00:00', '12:15:00', 'Summer18');
call newTeachingSlot('2018-05-07', '12:45:00', '12:45:00', '13:00:00', 'Summer18');
call newTeachingSlot('2018-05-07', '12:45:00', '13:00:00', '13:15:00', 'Summer18');
call newTeachingSlot('2018-05-07', '12:45:00', '13:15:00', '13:30:00', 'Summer18');
call newTeachingSlot('2018-05-07', '13:30:00', '13:30:00', '13:45:00', 'Summer18');
call newTeachingSlot('2018-05-07', '13:30:00', '13:45:00', '14:00:00', 'Summer18');
call newTeachingSlot('2018-05-07', '13:30:00', '14:00:00', '14:15:00', 'Summer18');
call newTeachingSlot('2018-05-07', '14:15:00', '14:15:00', '14:30:00', 'Summer18');
call newTeachingSlot('2018-05-07', '14:15:00', '14:30:00', '14:45:00', 'Summer18');
call newTeachingSlot('2018-05-07', '14:15:00', '14:45:00', '15:00:00', 'Summer18');


call newTeachingSlot('2018-05-08', '10:00:00', '10:00:00', '10:15:00', 'Summer18');
call newTeachingSlot('2018-05-08', '10:00:00', '10:15:00', '10:30:00', 'Summer18');
call newTeachingSlot('2018-05-08', '10:00:00', '10:30:00', '10:45:00', 'Summer18');
call newTeachingSlot('2018-05-08', '10:45:00', '10:45:00', '11:00:00', 'Summer18');
call newTeachingSlot('2018-05-08', '10:45:00', '11:00:00', '11:15:00', 'Summer18');
call newTeachingSlot('2018-05-08', '10:45:00', '11:15:00', '11:30:00', 'Summer18');
call newTeachingSlot('2018-05-08', '11:30:00', '11:30:00', '11:45:00', 'Summer18');
call newTeachingSlot('2018-05-08', '11:30:00', '11:45:00', '12:00:00', 'Summer18');
```

```
call newTeachingSlot('2018-05-08', '11:30:00', '12:00:00', '12:15:00', 'Summer18');
call newTeachingSlot('2018-05-08', '12:45:00', '12:45:00', '13:00:00', 'Summer18');
call newTeachingSlot('2018-05-08', '12:45:00', '13:00:00', '13:15:00', 'Summer18');
call newTeachingSlot('2018-05-08', '12:45:00', '13:15:00', '13:30:00', 'Summer18');
call newTeachingSlot('2018-05-08', '13:30:00', '13:30:00', '13:45:00', 'Summer18');
call newTeachingSlot('2018-05-08', '13:30:00', '13:45:00', '14:00:00', 'Summer18');
call newTeachingSlot('2018-05-08', '13:30:00', '14:00:00', '14:15:00', 'Summer18');
call newTeachingSlot('2018-05-08', '14:15:00', '14:15:00', '14:30:00', 'Summer18');
call newTeachingSlot('2018-05-08', '14:15:00', '14:30:00', '14:45:00', 'Summer18');
call newTeachingSlot('2018-05-08', '14:15:00', '14:45:00', '15:00:00', 'Summer18');
```

```
mysql> select * from ice_sessions;
Empty set (0.00 sec)

mysql> select * from teaching_slot;
Empty set (0.00 sec)

mysql> call newIceSession('2018-05-07', '10:00:00', '10:45:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.02 sec)

mysql> call newIceSession('2018-05-07', '10:45:00', '11:30:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.01 sec)

mysql> call newIceSession('2018-05-07', '11:30:00', '12:15:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-07', '12:45:00', '13:30:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-07', '13:30:00', '14:15:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-07', '14:15:00', '15:00:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> call newIceSession('2018-05-08', '10:00:00', '10:45:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-08', '10:45:00', '11:30:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-08', '11:30:00', '12:15:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-08', '12:45:00', '13:30:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-08', '13:30:00', '14:15:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> call newIceSession('2018-05-07', '14:15:00', '15:00:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> call newIceSession('2018-05-08', '10:00:00', '10:45:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-08', '10:45:00', '11:30:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-08', '11:30:00', '12:15:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-08', '12:45:00', '13:30:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-08', '13:30:00', '14:15:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newIceSession('2018-05-08', '14:15:00', '15:00:00', 4.5, 10, 'Summer18');
Query OK, 1 row affected (0.01 sec)

mysql> select * from ice_sessions;
+------------+------------+----------+---------+------------------+----------+
| ice_date   | start_time | end_time | ice_fee | registration_fee | camp     |
+------------+------------+----------+---------+------------------+----------+
| 2018-05-07 | 10:00:00   | 10:45:00 |     4.5 |               10 | Summer18 |
| 2018-05-07 | 10:45:00   | 11:30:00 |     4.5 |               10 | Summer18 |
| 2018-05-07 | 11:30:00   | 12:15:00 |     4.5 |               10 | Summer18 |
| 2018-05-07 | 12:45:00   | 13:30:00 |     4.5 |               10 | Summer18 |
| 2018-05-07 | 13:30:00   | 14:15:00 |     4.5 |               10 | Summer18 |
| 2018-05-07 | 14:15:00   | 15:00:00 |     4.5 |               10 | Summer18 |
| 2018-05-08 | 10:00:00   | 10:45:00 |     4.5 |               10 | Summer18 |
| 2018-05-08 | 10:45:00   | 11:30:00 |     4.5 |               10 | Summer18 |
| 2018-05-08 | 11:30:00   | 12:15:00 |     4.5 |               10 | Summer18 |
| 2018-05-08 | 12:45:00   | 13:30:00 |     4.5 |               10 | Summer18 |
| 2018-05-08 | 13:30:00   | 14:15:00 |     4.5 |               10 | Summer18 |
| 2018-05-08 | 14:15:00   | 15:00:00 |     4.5 |               10 | Summer18 |
+------------+------------+----------+---------+------------------+----------+
12 rows in set (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '10:00:00', '10:00:00', '10:15:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07' ,'10:00:00', '10:15:00', '10:30:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> call newTeachingSlot('2018-05-07', '10:00:00', '10:30:00', '10:45:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '10:45:00', '10:45:00', '11:00:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '10:45:00', '11:00:00', '11:15:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '10:45:00', '11:15:00', '11:30:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '11:30:00', '11:30:00', '11:45:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '11:30:00', '11:45:00', '12:00:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '11:30:00', '12:00:00', '12:15:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '12:45:00', '12:45:00', '13:00:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '12:45:00', '13:00:00', '13:15:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '12:45:00', '13:15:00', '13:30:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '13:30:00', '13:30:00', '13:45:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '13:30:00', '13:45:00', '14:00:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '13:30:00', '14:00:00', '14:15:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '14:15:00', '14:15:00', '14:30:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-07', '14:15:00', '14:30:00', '14:45:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> call newTeachingSlot('2018-05-08', '10:00:00', '10:00:00', '10:15:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '10:00:00', '10:15:00', '10:30:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '10:00:00', '10:30:00', '10:45:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '10:45:00', '10:45:00', '11:00:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '10:45:00', '11:00:00', '11:15:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '10:45:00', '11:15:00', '11:30:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '11:30:00', '11:30:00', '11:45:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '11:30:00', '11:45:00', '12:00:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '11:30:00', '12:00:00', '12:15:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '12:45:00', '12:45:00', '13:00:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '12:45:00', '13:00:00', '13:15:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '12:45:00', '13:15:00', '13:30:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '13:30:00', '13:30:00', '13:45:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '13:30:00', '13:45:00', '14:00:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '13:30:00', '14:00:00', '14:15:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)

mysql> call newTeachingSlot('2018-05-08', '14:15:00', '14:15:00', '14:30:00', 'Summer18');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from teaching_slot;
+---------------+----------------+-----------------+----------+----------+
| teaching_date | ice_start_time | slot_start_time | end_time | camp     |
+---------------+----------------+-----------------+----------+----------+
| 2018-05-07    | 10:00:00       | 10:00:00        | 10:15:00 | Summer18 |
| 2018-05-07    | 10:00:00       | 10:15:00        | 10:30:00 | Summer18 |
| 2018-05-07    | 10:00:00       | 10:30:00        | 10:45:00 | Summer18 |
| 2018-05-07    | 10:45:00       | 10:45:00        | 11:00:00 | Summer18 |
| 2018-05-07    | 10:45:00       | 11:00:00        | 11:15:00 | Summer18 |
| 2018-05-07    | 10:45:00       | 11:15:00        | 11:30:00 | Summer18 |
| 2018-05-07    | 11:30:00       | 11:30:00        | 11:45:00 | Summer18 |
| 2018-05-07    | 11:30:00       | 11:45:00        | 12:00:00 | Summer18 |
| 2018-05-07    | 11:30:00       | 12:00:00        | 12:15:00 | Summer18 |
| 2018-05-07    | 12:45:00       | 12:45:00        | 13:00:00 | Summer18 |
| 2018-05-07    | 12:45:00       | 13:00:00        | 13:15:00 | Summer18 |
| 2018-05-07    | 12:45:00       | 13:15:00        | 13:30:00 | Summer18 |
| 2018-05-07    | 13:30:00       | 13:30:00        | 13:45:00 | Summer18 |
| 2018-05-07    | 13:30:00       | 13:45:00        | 14:00:00 | Summer18 |
| 2018-05-07    | 13:30:00       | 14:00:00        | 14:15:00 | Summer18 |
| 2018-05-07    | 14:15:00       | 14:15:00        | 14:30:00 | Summer18 |
| 2018-05-07    | 14:15:00       | 14:30:00        | 14:45:00 | Summer18 |
| 2018-05-07    | 14:15:00       | 14:45:00        | 15:00:00 | Summer18 |
| 2018-05-08    | 10:00:00       | 10:00:00        | 10:15:00 | Summer18 |
| 2018-05-08    | 10:00:00       | 10:15:00        | 10:30:00 | Summer18 |
| 2018-05-08    | 10:00:00       | 10:30:00        | 10:45:00 | Summer18 |
| 2018-05-08    | 10:45:00       | 10:45:00        | 11:00:00 | Summer18 |
| 2018-05-08    | 10:45:00       | 11:00:00        | 11:15:00 | Summer18 |
| 2018-05-08    | 10:45:00       | 11:15:00        | 11:30:00 | Summer18 |
| 2018-05-08    | 11:30:00       | 11:30:00        | 11:45:00 | Summer18 |
| 2018-05-08    | 11:30:00       | 11:45:00        | 12:00:00 | Summer18 |
| 2018-05-08    | 11:30:00       | 12:00:00        | 12:15:00 | Summer18 |
| 2018-05-08    | 12:45:00       | 12:45:00        | 13:00:00 | Summer18 |
| 2018-05-08    | 12:45:00       | 13:00:00        | 13:15:00 | Summer18 |
| 2018-05-08    | 12:45:00       | 13:15:00        | 13:30:00 | Summer18 |
| 2018-05-08    | 13:30:00       | 13:30:00        | 13:45:00 | Summer18 |
| 2018-05-08    | 13:30:00       | 13:45:00        | 14:00:00 | Summer18 |
| 2018-05-08    | 13:30:00       | 14:00:00        | 14:15:00 | Summer18 |
| 2018-05-08    | 14:15:00       | 14:15:00        | 14:30:00 | Summer18 |
| 2018-05-08    | 14:15:00       | 14:30:00        | 14:45:00 | Summer18 |
| 2018-05-08    | 14:15:00       | 14:45:00        | 15:00:00 | Summer18 |
+---------------+----------------+-----------------+----------+----------+
36 rows in set (0.00 sec)
```

iv. Have Alice login to the system with password

Coach Login

alice@mail.com

••••••••

Submit

Welcome coach Alice

Logout

Change contact info

Your current rate is $0 per session

update rate here   Update

Camps	Location	Dates	Registration Dates	Brochure	Schedule	Register
Summer18	Ice Court	2018-05-07 to 2018-05-14	2018-03-30 to 2018-04-30	CampBrochure.pdf	Schedule	Register

v. Take the Summer18 Camp, show the ice slots and decide if he/she will offer lesson in that slot.

Summer18 schedule

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Open teaching slots for Summer18

Date	Start Time	End Time	Teach
2018-05-07	10:00:00	10:15:00	teach
2018-05-07	10:15:00	10:30:00	teach
2018-05-07	10:30:00	10:45:00	teach
2018-05-07	10:45:00	11:00:00	teach
2018-05-07	11:00:00	11:15:00	teach
2018-05-07	11:15:00	11:30:00	teach
2018-05-07	11:30:00	11:45:00	teach
2018-05-07	11:45:00	12:00:00	teach
2018-05-07	12:00:00	12:15:00	teach
2018-05-07	12:45:00	13:00:00	teach
2018-05-07	13:00:00	13:15:00	teach
2018-05-07	13:15:00	13:30:00	teach
2018-05-07	13:30:00	13:45:00	teach
2018-05-07	13:45:00	14:00:00	teach
2018-05-07	14:00:00	14:15:00	teach
2018-05-07	14:15:00	14:30:00	teach
2018-05-07	14:30:00	14:45:00	teach
2018-05-07	14:45:00	15:00:00	teach
2018-05-08	10:00:00	10:15:00	teach
2018-05-08	10:15:00	10:30:00	teach
2018-05-08	10:30:00	10:45:00	teach
2018-05-08	10:45:00	11:00:00	teach

vi. Do the same for coach Joe

vii. Have two campers Mary and Olivia to register and choose 5 lessons from Alice and Joe

Registration Form

email:

mary@mail.com

password:

•••••••

name:

Mary

address:

1234 Main St

phone number:

1112223333

emergency contact:

4445556666

Submit

Registration Form

email:

olivia@mail.com

password:

•••••••

name:

Olivia

address:

3456 Garnet

phone number:

7778889999

emergency contact:

6665554444

Submit

Summer18 schedule

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Open teaching slots for Summer18

Date	Start Time	End Time	Teach
2018-05-07	10:00:00	10:15:00	teach
2018-05-07	10:15:00	10:30:00	teach
2018-05-07	10:30:00	10:45:00	teach
2018-05-07	10:45:00	11:00:00	teach
2018-05-07	11:00:00	11:15:00	teach
2018-05-07	11:15:00	11:30:00	teach
2018-05-07	11:30:00	11:45:00	teach
2018-05-07	11:45:00	12:00:00	teach
2018-05-07	12:00:00	12:15:00	teach
2018-05-07	12:45:00	13:00:00	teach
2018-05-07	13:00:00	13:15:00	teach
2018-05-07	13:15:00	13:30:00	teach
2018-05-07	13:30:00	13:45:00	teach
2018-05-07	13:45:00	14:00:00	teach
2018-05-07	14:00:00	14:15:00	teach
2018-05-07	14:15:00	14:30:00	teach
2018-05-07	14:30:00	14:45:00	teach
2018-05-07	14:45:00	15:00:00	teach
2018-05-08	10:00:00	10:15:00	teach
2018-05-08	10:15:00	10:30:00	teach
2018-05-08	10:30:00	10:45:00	teach
2018-05-08	10:45:00	11:00:00	teach

viii. Show Mary, Olivia's schedule and bills

Olivia's Summer18 schedule

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Your Summer18 bill is $97.5
($22.5 in ice fees, $10 in registration fees, $65 in coach fees)

Your registered lesson slots, each is 15 minutes long

Date	Start Time	Instructor	Price	Drop
2018-05-08	13:15:00	alice@mail.com	$10	drop
2018-05-08	13:45:00	alice@mail.com	$10	drop
2018-05-08	14:15:00	joe@mail.com	$15	drop
2018-05-08	14:30:00	joe@mail.com	$15	drop
2018-05-08	14:45:00	joe@mail.com	$15	drop

Mary's Summer18 schedule

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Your Summer18 bill is $92.5
($22.5 in ice fees, $10 in registration fees, $60 in coach fees)

Your registered lesson slots, each is 15 minutes long

Date	Start Time	Instructor	Price	Drop
2018-05-07	10:00:00	alice@mail.com	$10	drop
2018-05-07	10:30:00	alice@mail.com	$10	drop
2018-05-07	10:45:00	alice@mail.com	$10	drop
2018-05-07	12:45:00	joe@mail.com	$15	drop
2018-05-07	13:00:00	joe@mail.com	$15	drop

ix. Show Alice and Joe's lesson schedule and charges to each student

Alice's Summer18 schedule

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Your registered teaching slots for Summer18
Each slot is 15 minutes long
Please contact a camper if you decide to drop a slot they have registered for

Date	Start Time	Camper	Camper's Email	Camper's Address	Camper's Phone Number	Camper's Emergency Contact	Drop
2018-05-07	10:00:00	Mary	mary@mail.com	1234 Main St	1112223333	4445556666	drop
2018-05-07	10:15:00						drop
2018-05-07	10:30:00	Mary	mary@mail.com	1234 Main St	1112223333	4445556666	drop
2018-05-07	10:45:00	Mary	mary@mail.com	1234 Main St	1112223333	4445556666	drop
2018-05-07	11:00:00						drop
2018-05-07	11:15:00						drop
2018-05-07	11:30:00						drop
2018-05-07	11:45:00						drop
2018-05-07	12:00:00						drop
2018-05-08	10:00:00						drop
2018-05-08	10:15:00						drop
2018-05-08	10:30:00						drop
2018-05-08	10:45:00						drop
2018-05-08	12:45:00						drop
2018-05-08	13:00:00						drop
2018-05-08	13:15:00	Olivia	olivia@mail.com	3456 Garnet	7778889999	6665554444	drop
2018-05-08	13:30:00						drop
2018-05-08	13:45:00	Olivia	olivia@mail.com	3456 Garnet	7778889999	6665554444	drop

Joe's Summer18 schedule

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Your registered teaching slots for Summer18
Each slot is 15 minutes long
Please contact a camper if you decide to drop a slot they have registered for

Date	Start Time	Camper	Camper's Email	Camper's Address	Camper's Phone Number	Camper's Emergency Contact	Drop
2018-05-07	12:45:00	Mary	mary@mail.com	1234 Main St	1112223333	4445556666	drop
2018-05-07	13:00:00	Mary	mary@mail.com	1234 Main St	1112223333	4445556666	drop
2018-05-07	13:15:00						drop
2018-05-07	13:30:00						drop
2018-05-07	13:45:00						drop
2018-05-07	14:00:00						drop
2018-05-07	14:15:00						drop
2018-05-07	14:30:00						drop
2018-05-07	14:45:00						drop
2018-05-08	11:00:00						drop
2018-05-08	11:15:00						drop
2018-05-08	11:30:00						drop
2018-05-08	11:45:00						drop
2018-05-08	12:00:00						drop
2018-05-08	14:00:00						drop
2018-05-08	14:15:00	Olivia	olivia@mail.com	3456 Garnet	7778889999	6665554444	drop
2018-05-08	14:30:00	Olivia	olivia@mail.com	3456 Garnet	7778889999	6665554444	drop
2018-05-08	14:45:00	Olivia	olivia@mail.com	3456 Garnet	7778889999	6665554444	drop