



Camp Data

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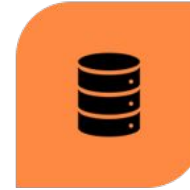
Problem:



200 MEN COME TO CAMP
WITH PAPER APPLICATIONS
AND PAYMENT INFORMATION



ENTERING THE DATA IS
MONOTONOUS AND TAKES
ABOUT 5 HOURS



THE DATA TAKES TOO LONG
TO RETRIEVE SINCE IT HAS TO
BE PHYSICALLY LOOKED-UP



**Create an application to be filled
out internally**

This data will be stored in a database for ease
of access



**Create users to allow leaders to
view their group's information**



**Create an ability to search by all
criteria**



This week...

- In case seeds gem doesn't work; created a mysql database to insert data
- Triggers



MySql

source campData_project.sql

ActionView::Template::Error (Mysql2::Error: Table 'campdata_project.camp_members' doesn't exist: SELECT `camp_members`.* FROM `camp_members`):

```
23:   </thead>
24:
25:   <tbody>
26:     <% @camp_members.each do |camp_member| %>
27:       <tr>
28:         <td><%= camp_member.first_name %></td>
29:         <td><%= camp_member.last_name %></td>
```

app/views/camp_members/index.html.erb:26:in `_app_views_camp_members_index_html_erb___4343948086794743451_70341210232880'

```
/*  
Created by Areli Muñoz; project CSC4500_Ministry
```

```
*/  
DROP DATABASE IF EXISTS `campData_project`;
```

```
CREATE DATABASE `campData_project`;  
USE `campData_project`;
```

```
DROP TABLE IF EXISTS `camp_member`;
```

```
CREATE TABLE `camp_member` (  
  memberId INT NOT NULL AUTO_INCREMENT,  
  first_name varchar(50) NOT NULL,  
  last_name varchar(50) NOT NULL,  
  street varchar(50) NOT NULL,  
  city varchar(50) NOT NULL,  
  state varchar(2) NOT NULL,  
  zip varchar(50) NOT NULL,  
  phone_number varchar(12) NOT NULL,  
  dob date,  
  age varchar(2) NOT NULL,  
  email varchar(100) NOT NULL,  
  paid boolean,  
  payment_type varchar(50),  
  entered_on date,  
  
  PRIMARY KEY (`memberId`)
```

```
)ENGINE=INNODB;
```

```
DROP TABLE IF EXISTS `emergencyContact`;
```

```
CREATE TABLE `emergencyContact`(  
  id INT NOT NULL,  
  first_name varchar(50) NOT NULL,  
  last_name varchar(50) NOT NULL,  
  phone_number varchar(12) NOT NULL,  
  relationship varchar(50) NOT NULL,  
  member_id INT NOT NULL, /* connects fk to camp_member*/  
  
  INDEX par_ind (member_id),  
  CONSTRAINT fk_emergencyContact FOREIGN KEY (member_id) /* connects  
  REFERENCES camp_member(memberId)  
  ON DELETE CASCADE  
  ON UPDATE CASCADE
```

```
)ENGINE=INNODB;
```



Triggers

Basic Syntax for Triggers:

```
CREATE TRIGGER triggerName triggerTime triggerEvent  
ON tableName  
FOR EACH ROW  
  
BEGIN  
.....  
END;
```



Triggers

For triggerName: is the name of a trigger; you can call it whatever the purpose of that trigger.

For triggerTime: to activate the trigger; you need to state BEFORE or AFTER activation time for the trigger

For triggerEvent: it is an event so the trigger can be invoked; you can do that by INSERT, UPDATE or DELETE
*If a triggerEvent needs to be invoked in many events then there has to be multiple triggers; one for each event.

For tableName: the table name, a trigger is always assigned to a specific table.



Connect Triggers to Camp Data

```
Trigger for updating emergency contact:
DELIMITER //
CREATE TRIGGER before_member_update
    BEFORE UPDATE ON camp_member
    FOR EACH ROW
BEGIN
    INSERT INTO emergencyContact
    SET action = 'update',
        memberId = OLD.memberId,
        phone_number = OLD.phone_number,
        changedate = NOW();
END //
DELIMITER |;
```




Source

MySQL Foreign Key: <https://www.hostingadvice.com/how-to/mysql-foreign-key-example/>