

Triggers

Setup

You will need to run `triggers_setup.sql` to set up the following tables:

```
create table students (  
    id integer primary key,  
    name varchar(24)  
);  
  
create table courses (  
    num varchar(6) primary key,  
    open boolean not null,  
    enrolled integer default 0,  
    lim integer default 3  
);  
  
create table enrollment (  
    student integer references students(id),  
    course varchar(6) references courses(num)  
);
```

Write triggers to address the following:

60 points Create a trigger that will update the `enrolled` attribute of a course every time a new row is added to the `enrollments` table for that course. Further, this trigger should set the `open` attribute of that record to `false` in the `courses` table if the row added to the `enrollments` table would cause the number of enrolled students to hit the enrollment limit (set in the `lim` attribute). You do not need to consider updates or deletes for this assignment.

40 points Write a trigger that will block an addition to the `enrollments` table for any course that is full (i.e., `open` is `false`). Again, you do not need to consider updates or deletes for this assignment.

What to submit

In a **single** typed SQL file, please submit your answers to all questions. Name the file in following way: `hw#-<your_username>` (where `#` is the number of the assignment). **No hand-written assignments are accepted. Any hand-written and scanned assignment will not be graded.**

Submit your assignment by the due date. **There is no late submission.**