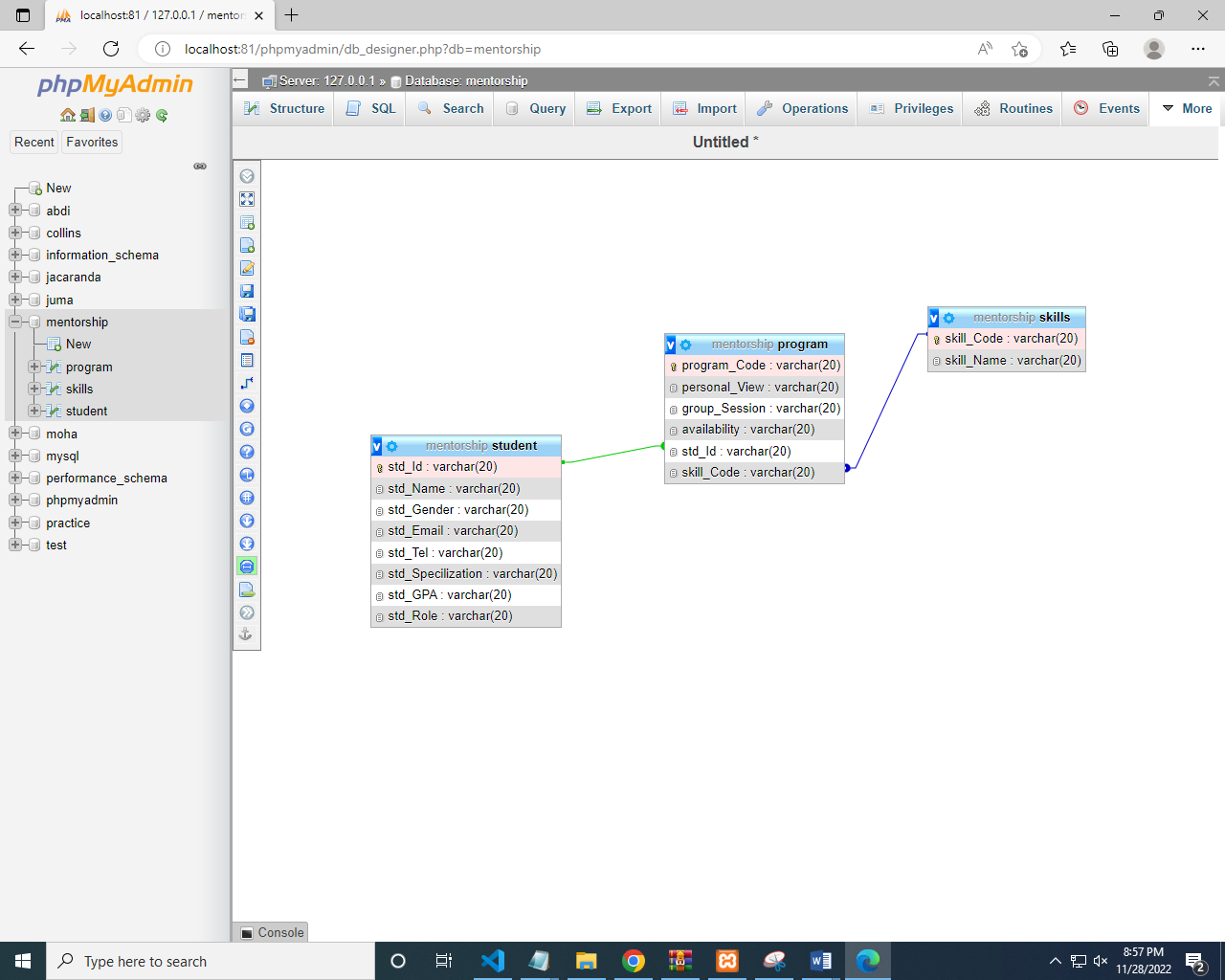
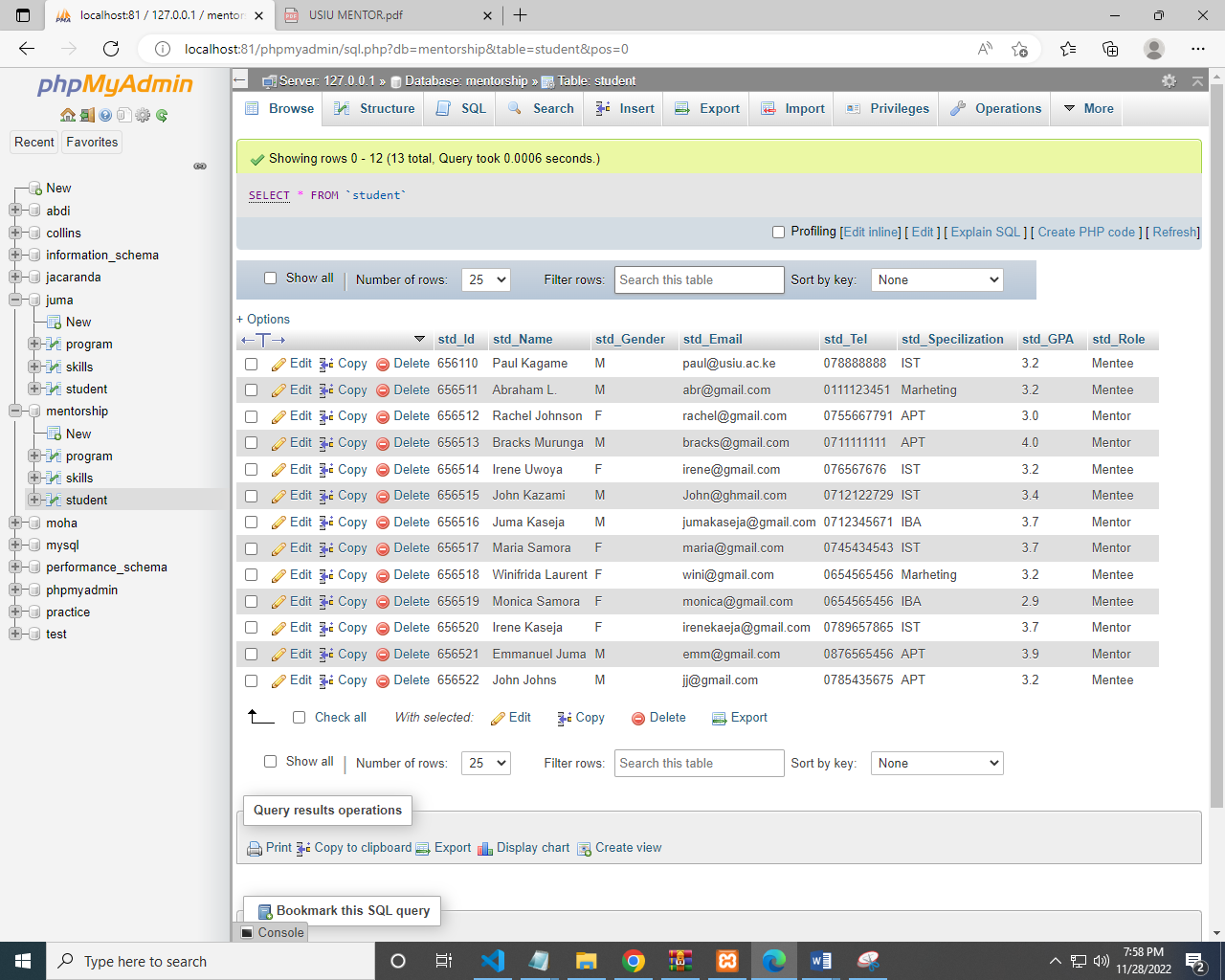
**IST 4030 – DATABASE MANAGEMENT SYSTEMS**

**Class Project**

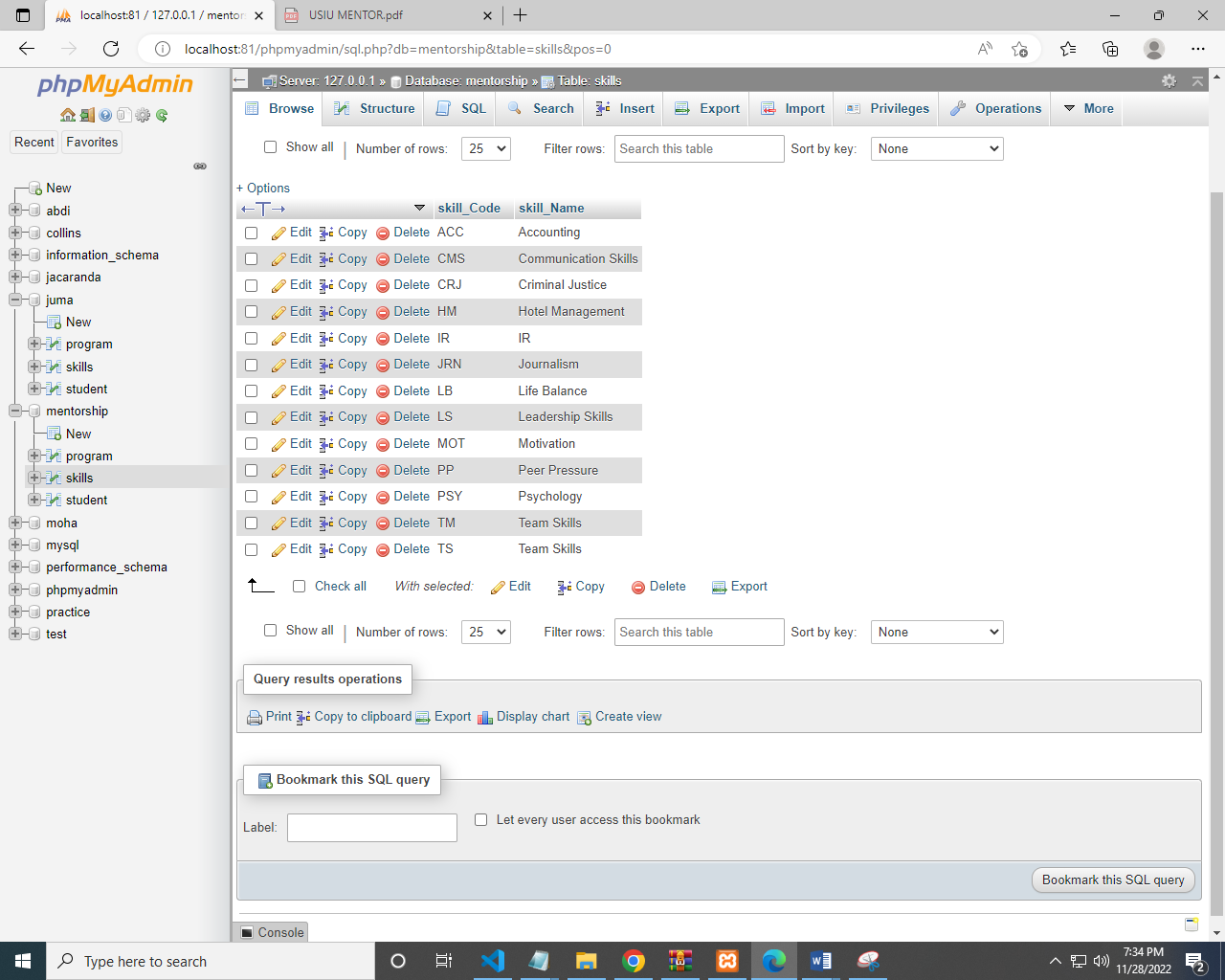
Relationship



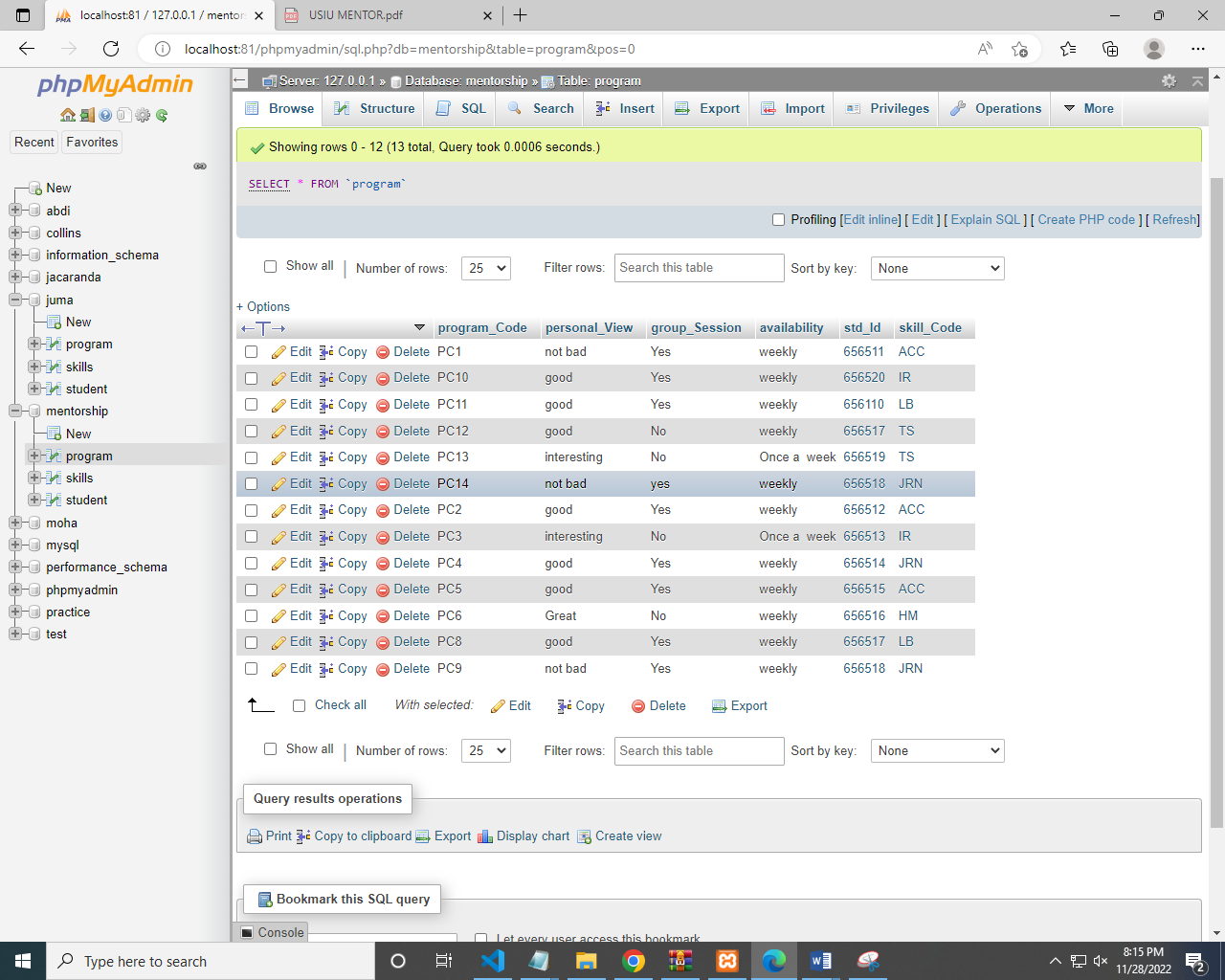
Student table



Skills table



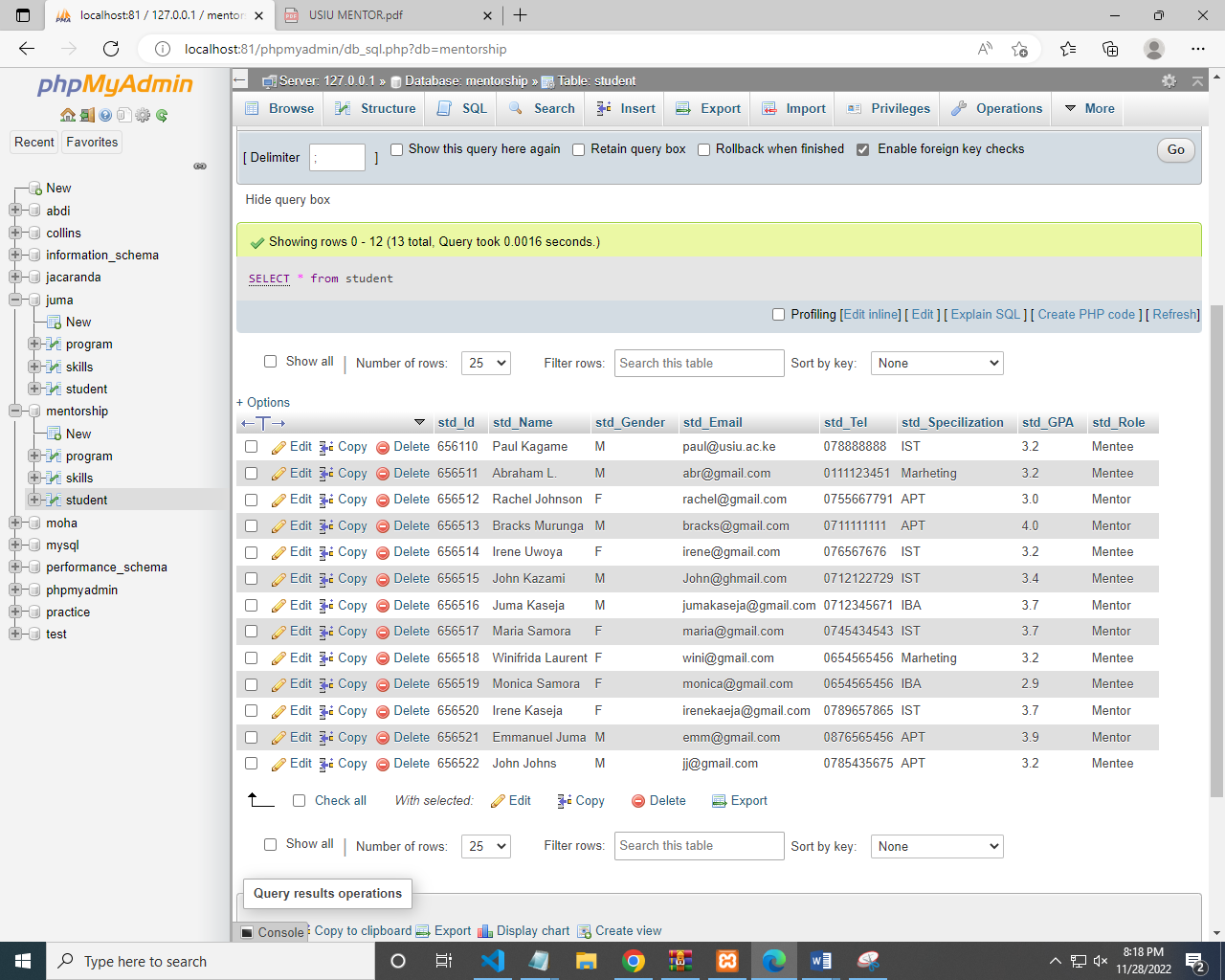
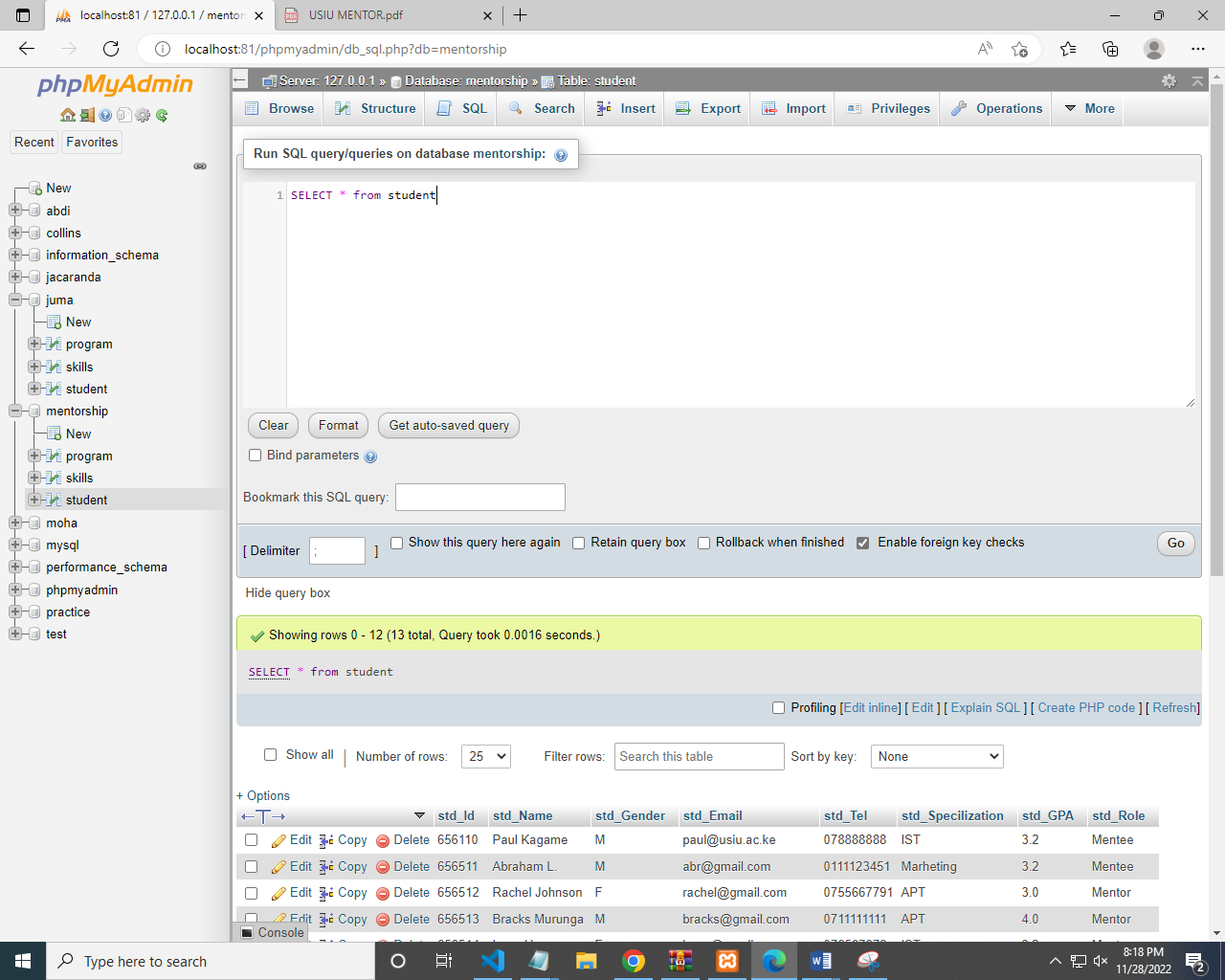
Program table



Question:

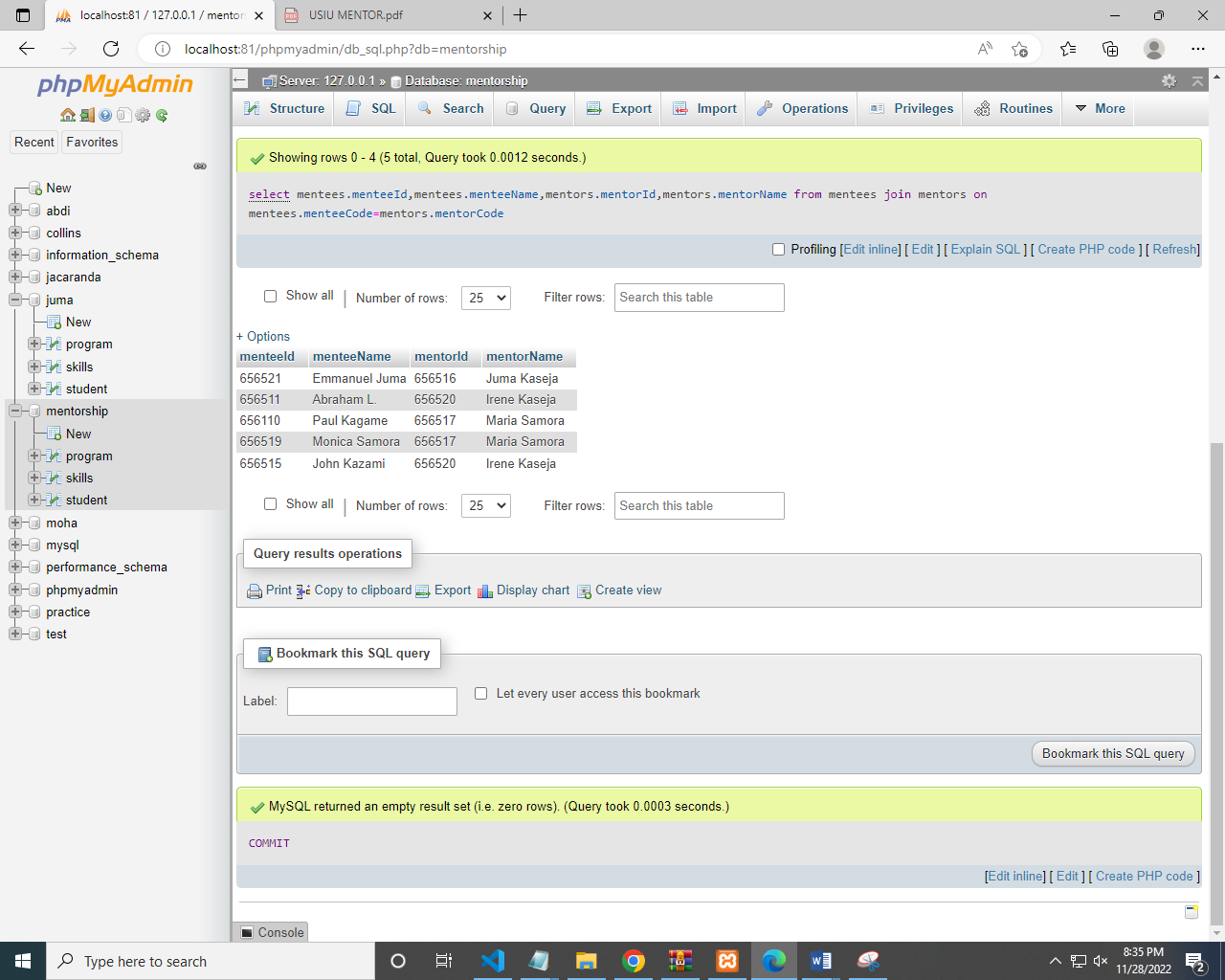
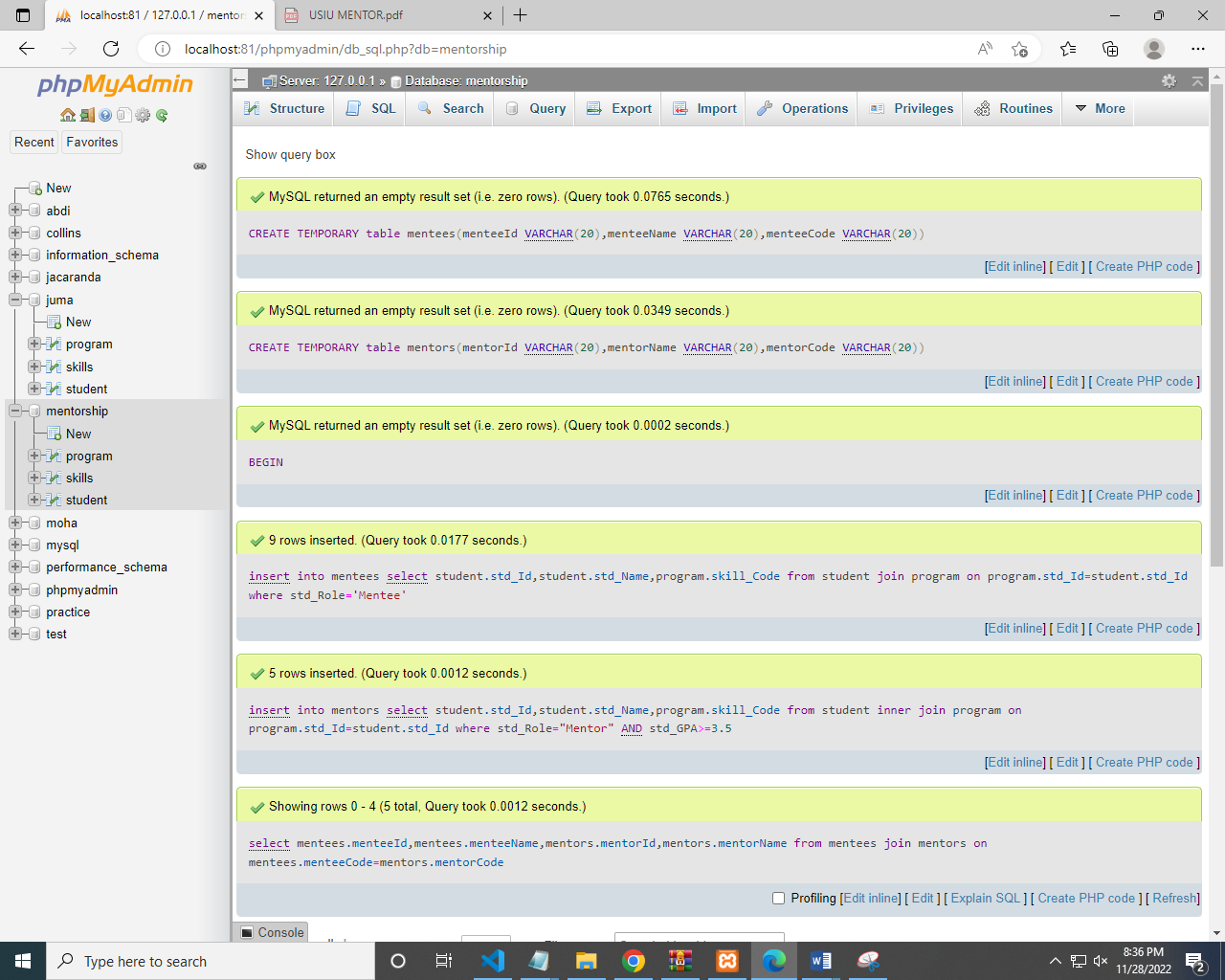
* A query that can be used to display the details of a student and their mentors

Select \* from student;



Question:

* A transaction that can be used to assign a student a selected mentor. Only a student with a good GPA can be added as a mentor.



Code:

CREATE TEMPORARY table mentees(menteeId VARCHAR(20),menteeName VARCHAR(20),menteeCode VARCHAR(20));

CREATE TEMPORARY table mentors(mentorId VARCHAR(20),mentorName VARCHAR(20),mentorCode VARCHAR(20));

BEGIN;

insert into mentees select student.std\_Id,student.std\_Name,program.skill\_Code from student join program on program.std\_Id=student.std\_Id

where std\_Role='Mentee';

insert into mentors select student.std\_Id,student.std\_Name,program.skill\_Code from student inner join program on program.std\_Id=student.std\_Id

where std\_Role="Mentor" AND std\_GPA>=3.5;

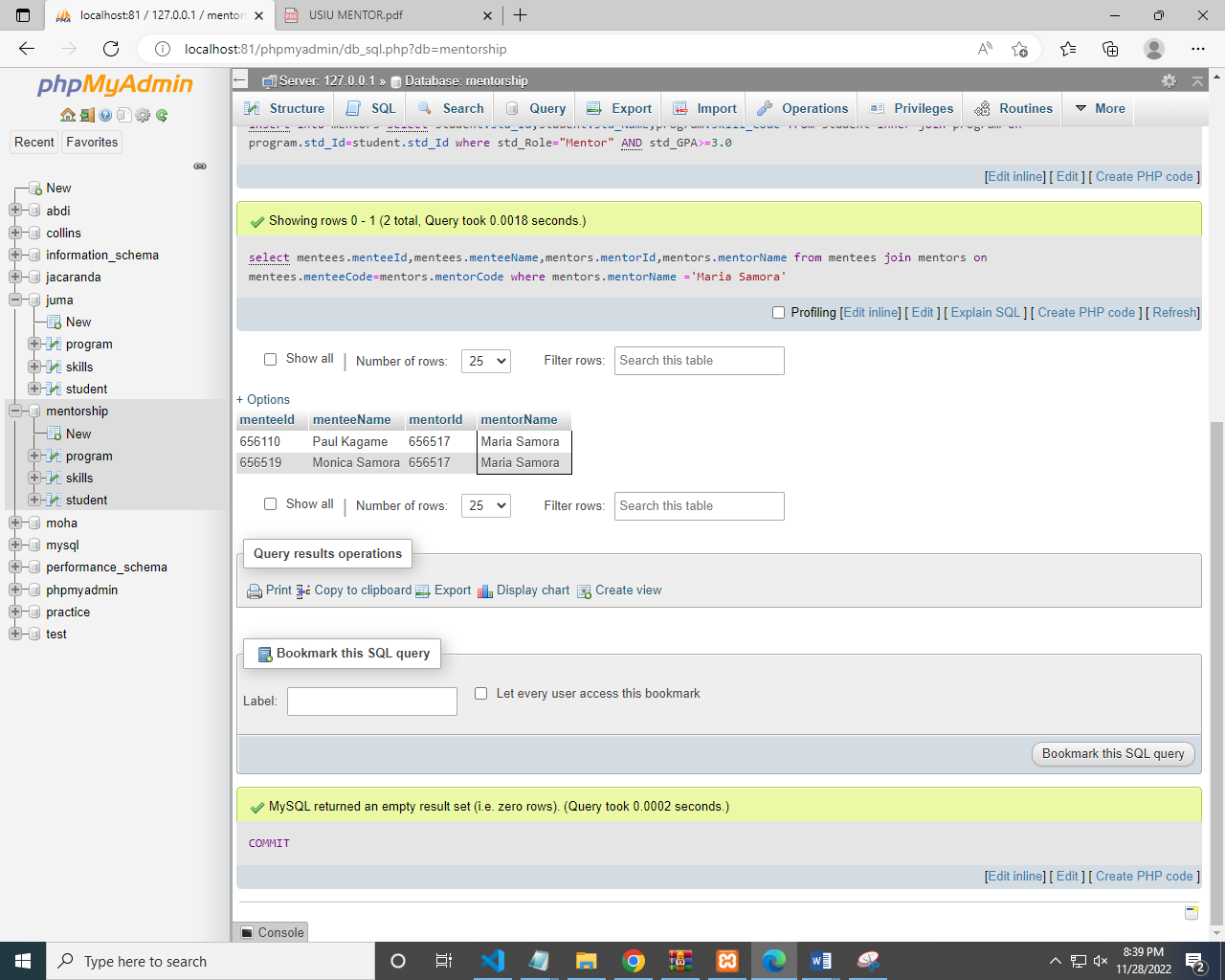
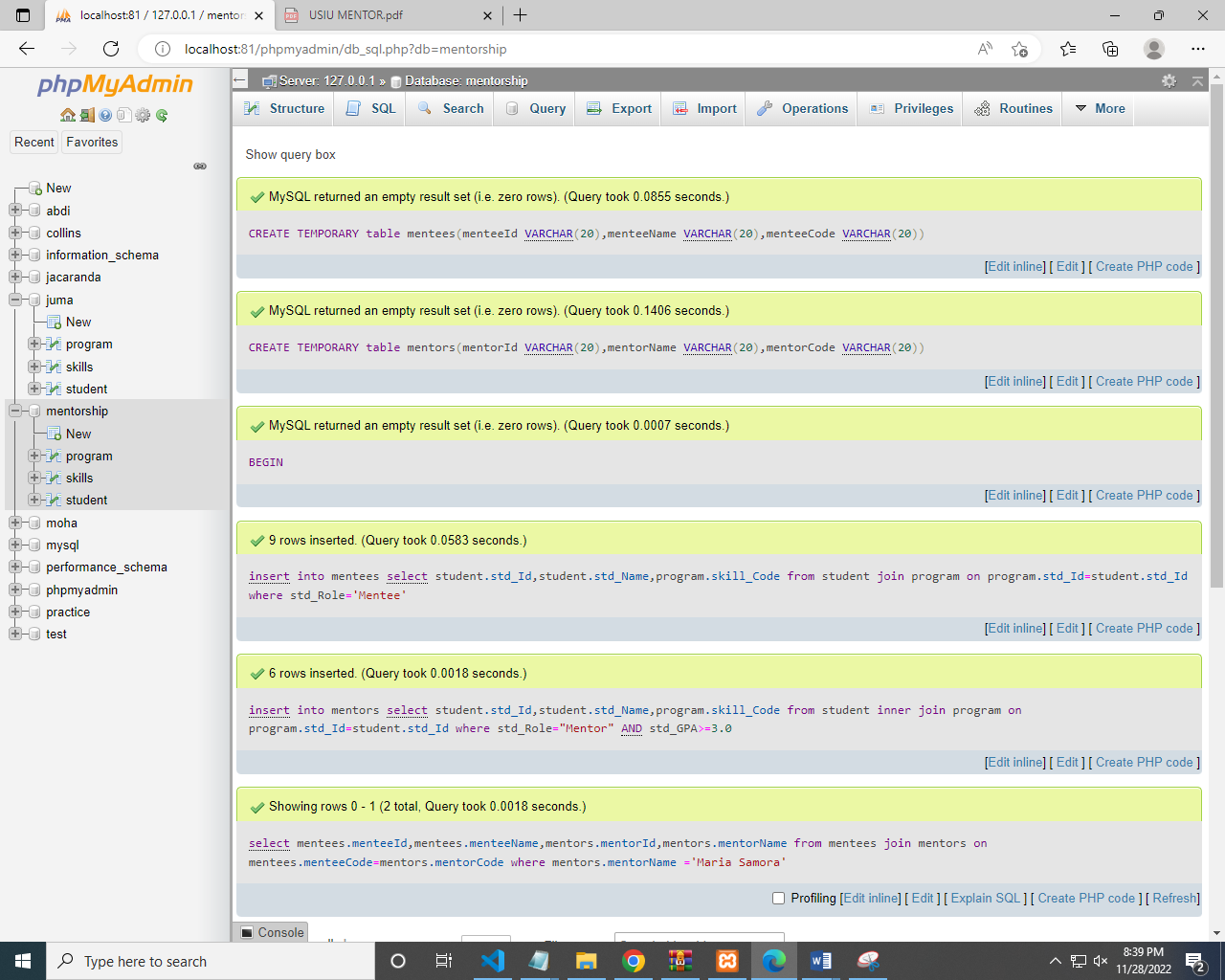
select mentees.menteeId,mentees.menteeName,mentors.mentorId,mentors.mentorName from mentees join mentors

on mentees.menteeCode=mentors.mentorCode ;

COMMIT;

Question:

* A report showing the students that an Alumnus is currently mentoring.



Code:

CREATE TEMPORARY table mentees(menteeId VARCHAR(20),menteeName VARCHAR(20),menteeCode VARCHAR(20));

CREATE TEMPORARY table mentors(mentorId VARCHAR(20),mentorName VARCHAR(20),mentorCode VARCHAR(20));

BEGIN;

insert into mentees select student.std\_Id,student.std\_Name,program.skill\_Code from student join program on program.std\_Id=student.std\_Id

where std\_Role='Mentee';

insert into mentors select student.std\_Id,student.std\_Name,program.skill\_Code from student inner join program on program.std\_Id=student.std\_Id

where std\_Role="Mentor" AND std\_GPA>=3.0;

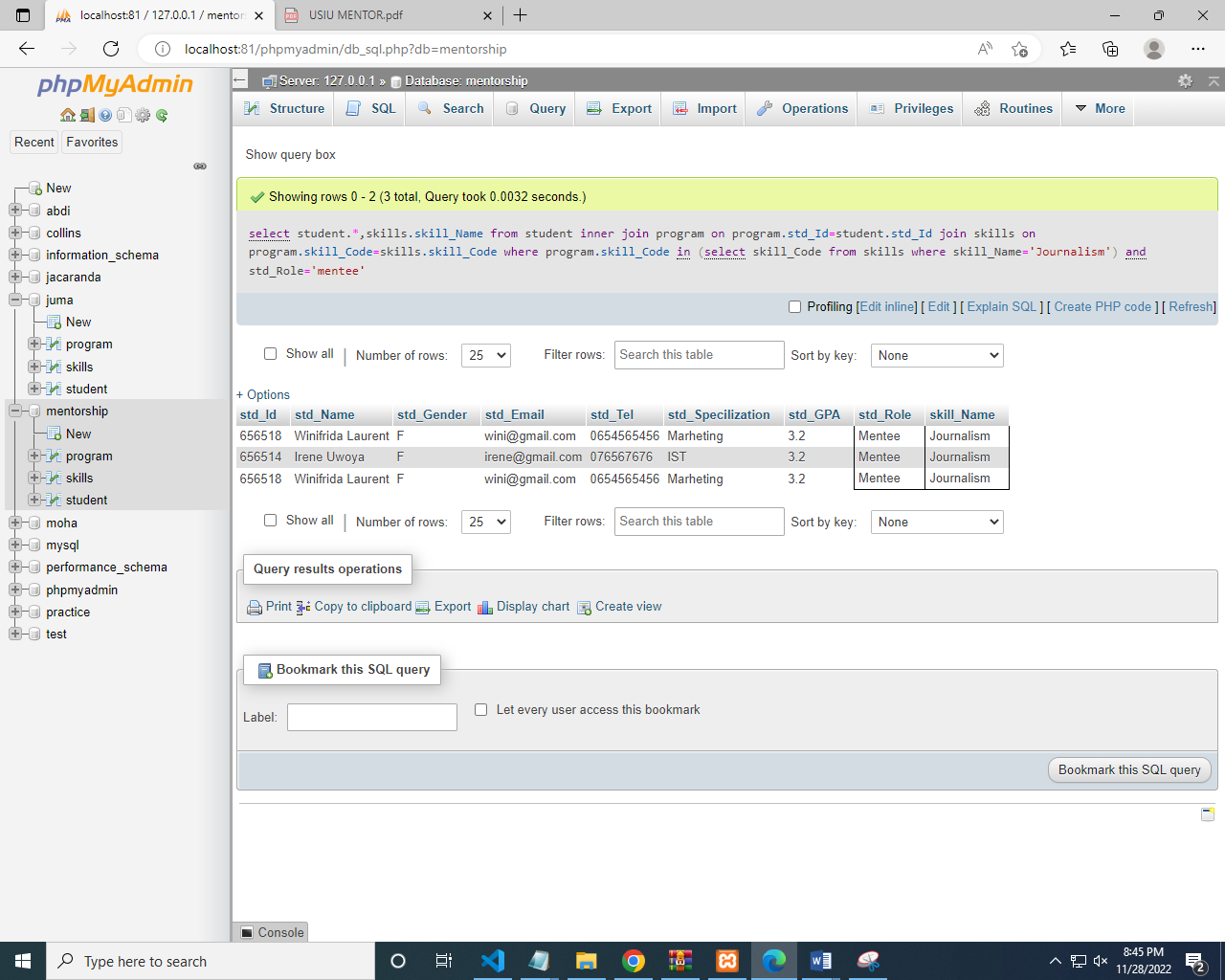
select mentees.menteeId,mentees.menteeName,mentors.mentorId,mentors.mentorName from mentees join mentors

on mentees.menteeCode=mentors.mentorCode where mentors.mentorName ='Maria Samora';

COMMIT;

Question:

* A report showing the students that require mentorship in Journalism Skills.



Code:

select student.\*,skills.skill\_Name from student inner join program on program.std\_Id=student.std\_Id

join skills on program.skill\_Code=skills.skill\_Code

where program.skill\_Code in (select skill\_Code from skills where skill\_Name='Journalism') and std\_Role='mentee';