

**Database**

**Management**

**Systems**

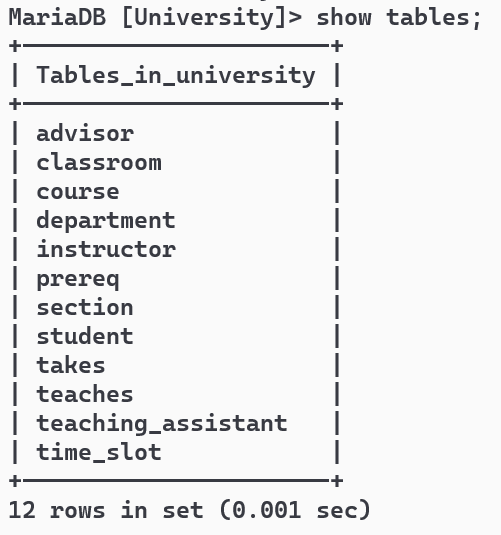
**Sarvesh Anand Mankar**

**142203013**

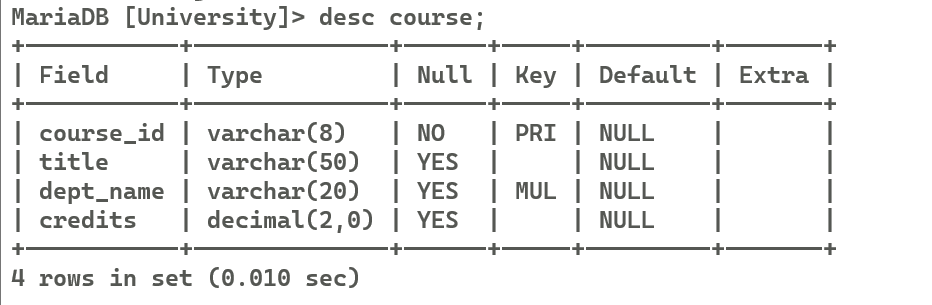
**TY Comp Div-2, T4 Batch**

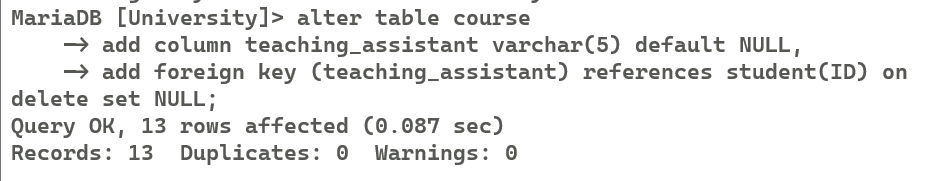
**Asssignment - 3**

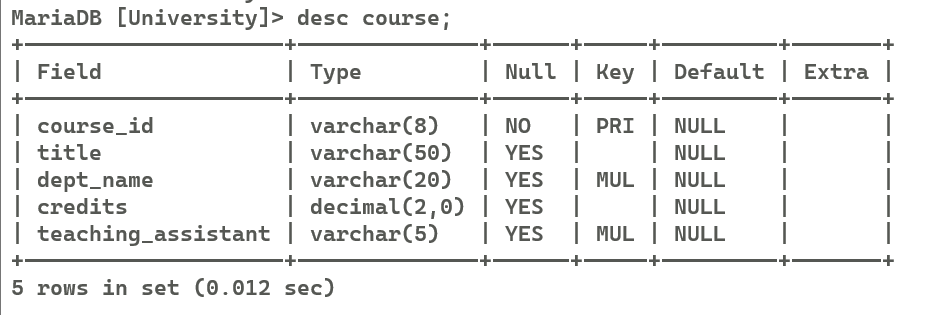
**University Schema**



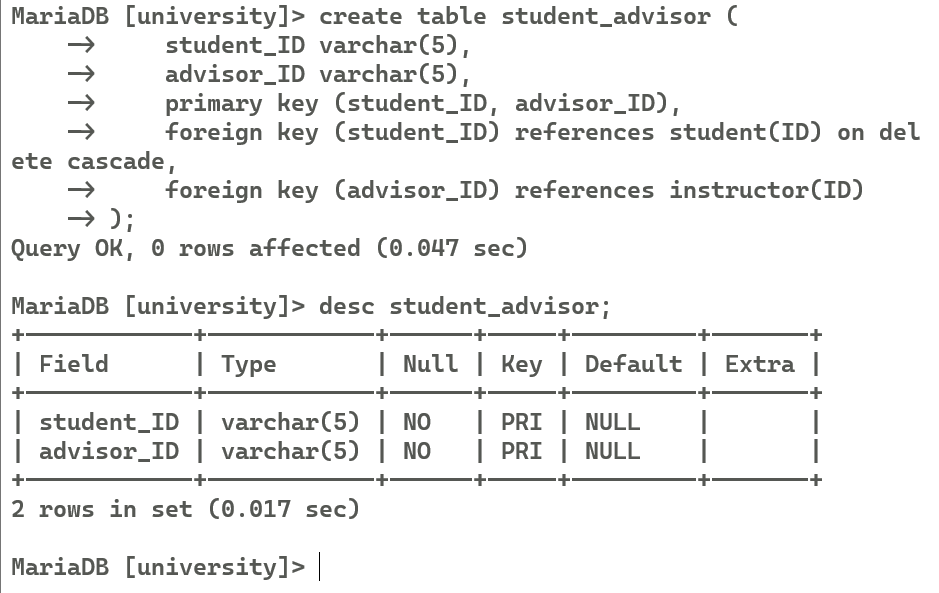
Each offering of a course (i.e. a section) can have many Teaching assistants; each teaching assistant is a student. Extend the existing schema(Add/Alter tables) to accommodate this requirement.







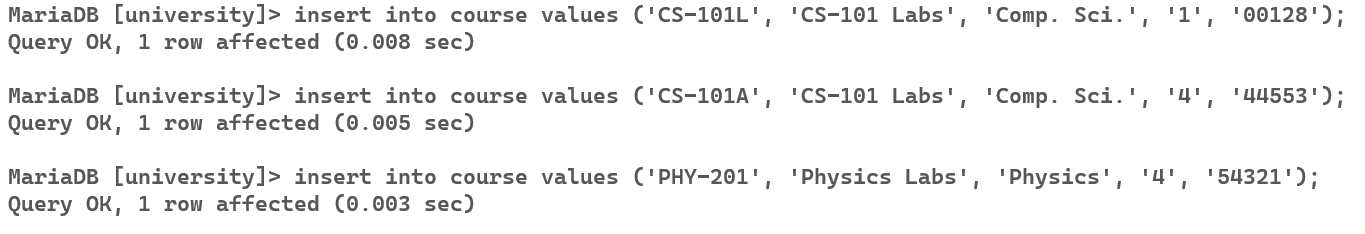
Alter the schema to allow a student to have multiple advisors and make sure that you are able to insert multiple advisors for a student.

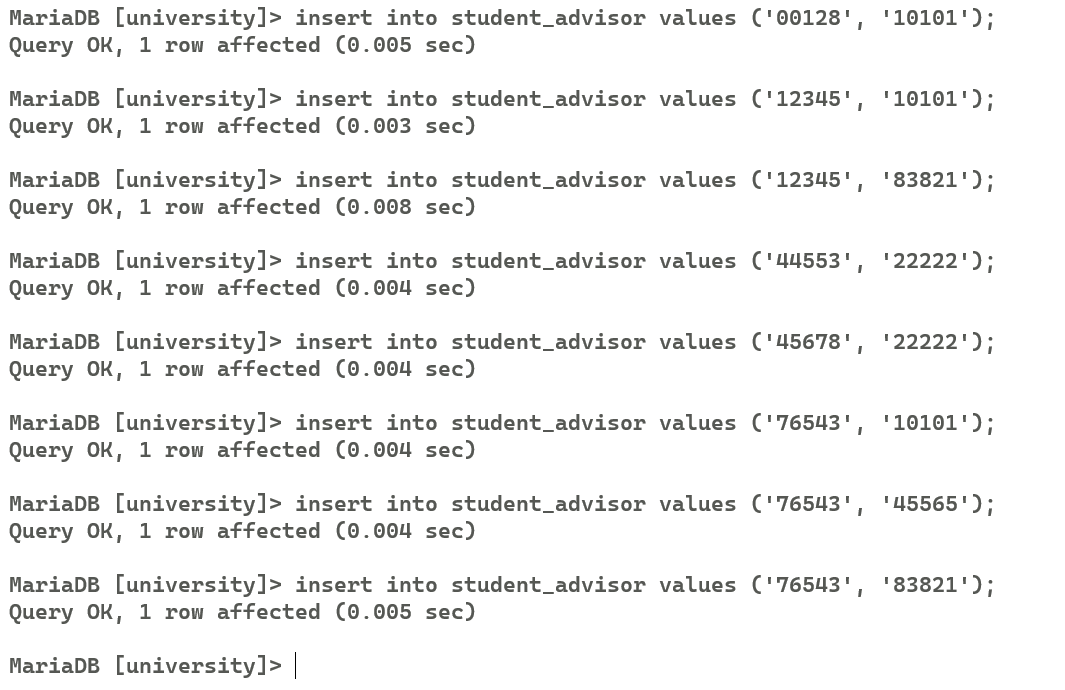


insert into course values ('CS-101L', 'CS-101 Labs', 'Comp. Sci.', '1', '00128');

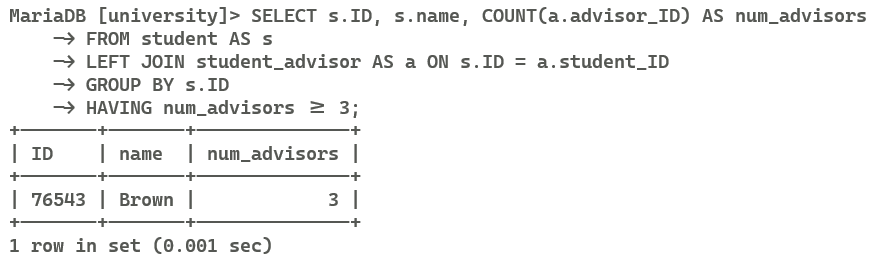
insert into course values ('CS-101A', 'CS-101 Labs', 'Comp. Sci.', '4', '44553');

insert into course values ('PHY-201', 'Physics Labs', 'Physics', '4', '54321');





Find all students who have more than 3 advisors



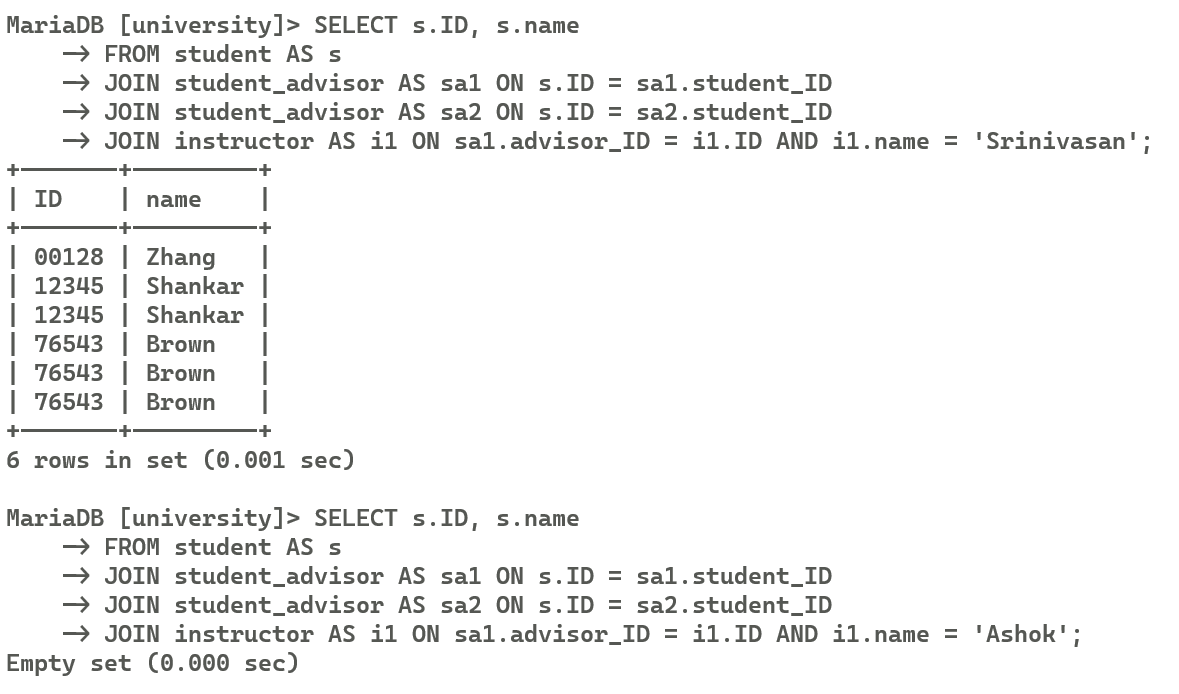
SELECT s.ID, s.name, COUNT(a.advisor\_ID) AS num\_advisors

FROM student AS s

LEFT JOIN student\_advisor AS a ON s.ID = a.student\_ID

GROUP BY s.ID

HAVING num\_advisors >= 3;



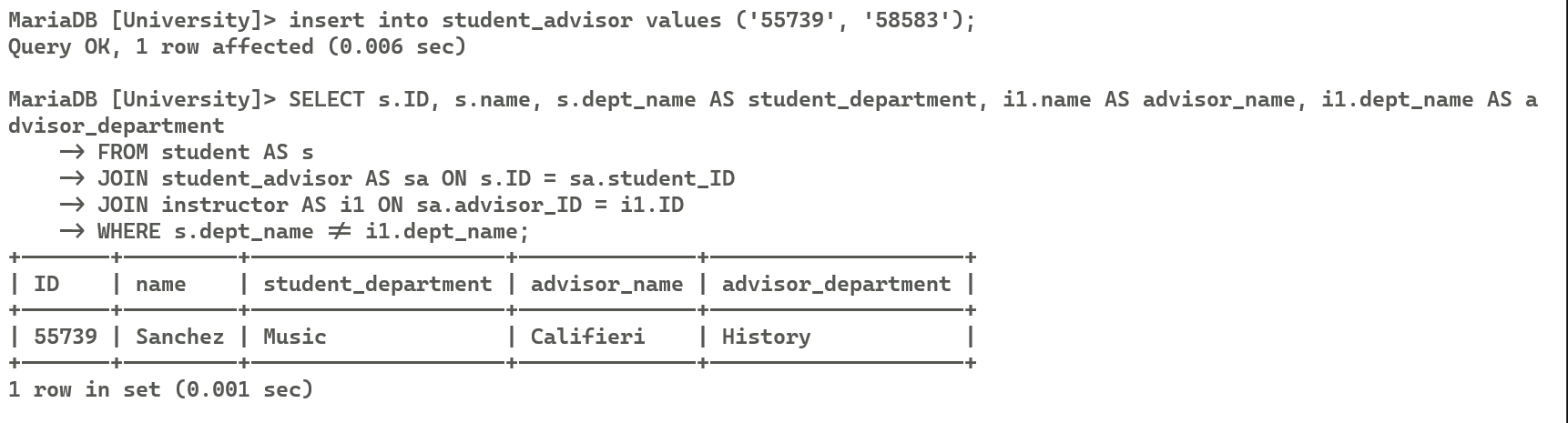
SELECT s.ID, s.name

FROM student AS s

JOIN student\_advisor AS sa1 ON s.ID = sa1.student\_ID

JOIN student\_advisor AS sa2 ON s.ID = sa2.student\_ID

JOIN instructor AS i1 ON sa1.advisor\_ID = i1.ID AND i1.name = 'Srinivasan';



SELECT s.ID, s.name, s.dept\_name AS student\_department, i1.name AS advisor\_name, i1.dept\_name AS advisor\_department

FROM student AS s

JOIN student\_advisor AS sa ON s.ID = sa.student\_ID

JOIN instructor AS i1 ON sa.advisor\_ID = i1.ID

WHERE s.dept\_name != i1.dept\_name;

