

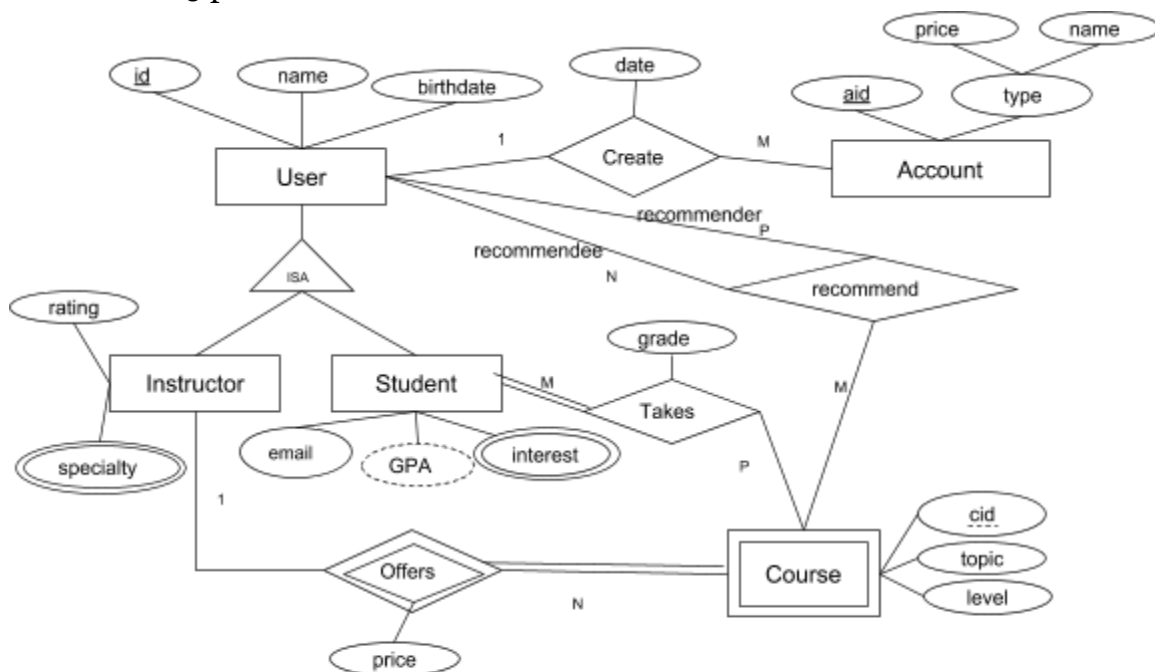
Quiz #2: ER Modeling

Score: ____/10

Taken by (Name): _____ ID: _____

- We will discuss the answers right after the quiz.
- You are to self-grade and record your actual initial score (above) as we do so.
- You should also record the correct answers for any problems that you miss.
- A full 10 points for taking this quiz will be included as part of your quiz grade.

Based ONLY on the commercial online university E-R schema below, indicate which of the following statements are TRUE and which are FALSE by circling the appropriate response. Each question is worth 0.5 point.



Instructor and Student Overlap.

- An instructor can have multiple specialties.
TRUE FALSE
- An instructor can recommend his/her course to the other instructors.
TRUE FALSE
- Student GPA is a derived attribute because it can be calculated from a student's grades.
TRUE FALSE
- An account can belong to multiple users.
TRUE FALSE
- A course can be uniquely identified by its cid and its price.
TRUE FALSE

6. An instructor can offer courses with the same topic with different prices.
TRUE FALSE
7. All courses with the same topic have the same price.
TRUE FALSE
8. There can be a student that has a rating.
TRUE FALSE
9. A recommender can recommend one course to a recommendee multiple times.
TRUE FALSE
10. There can be course that does not have any instructor.
TRUE FALSE
11. Each user is either an instructor or a student.
TRUE FALSE
12. Every course cid is unique.
TRUE FALSE
13. Some students can offer courses.
TRUE FALSE
14. There can be multiple instructors offering a course with cid = 123, topic=Python, and level=beginner.
TRUE FALSE
15. A new date will be stored only when a user creates his/her first account.
TRUE FALSE
16. All courses with the same topic will be offered by the same instructor.
TRUE FALSE
17. This ER design cannot prevent an instructor from taking his/her own class.
TRUE FALSE
18. Every instructor has to offer a course.
TRUE FALSE
19. There can be students that do not take any course.
TRUE FALSE
20. To restrict a course to be recommended to a user by at most one recommender we should change the cardinality N next to the recommendee role to be 1.
TRUE FALSE