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ER Diagram Examples - Questions

♣ By admin December 8, 2015

Database, ER Diagram and ER Model, Question Bank of DBMS, Some Solved Questions on DBMS



ER Diagram Examples

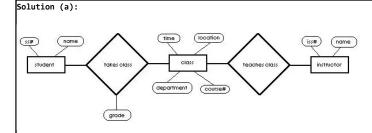
Some ER Diagram Examples:

Question 1 :

(a) Construct an E-R diagram for the registrar's office. Document all assumptions you make about the mapping constraints

Assumptions:

- A class meets only at one particular place and time. This diagram does not attempt to model a class meeting at different places or at different times
- There is no guarantee that the database does not have two classes meeting at the same place and time
- · Each class has a unique instructor
- (b) Construct appropriate tables for the ER Diagram



Solution (b) :

Student(<u>SS#</u>, name)

Class(<u>Course#, time</u>, <u>location</u>, department)

Instructor(<u>Iss#</u>, name)

Teaches-class(<u>Iss#</u>, <u>Course#</u>, <u>time</u>, <u>location</u>)

Takes-class (<u>SS#, Course#, time, location</u>, grade)

Question 2 :

(a) A university registrar□s office maintains data about the following entities:

- $\bullet \ \ \, (a) \ courses, including \ number, \ title, \ credits, \ syllabus, \ and \ prerequisites;$
- (b) course offerings, including course number, year, semester, section number, instructor(s), timings, and classroom;
- (c) students, including student-id, name, and program; and
- (d) instructors, including identif acation number, name, department, and title.

Further, the enrollment of students in courses and grades awarded to students in each course they are enrolled for must be that you make about the mapping constraints.

(b) Construct appropriate tables for the above ER Diagram :

Answer (a):

In the answer given here, the main entity sets are student, course, course-offering, and instructor. The entity set course-offering is a weak entity set a. a class meets only at one particular place and time. This E-R diagram cannot

model a class meeting at different places at different times.

b. There is no guarantee that the database does not have two classes meeting

at the same place and time.

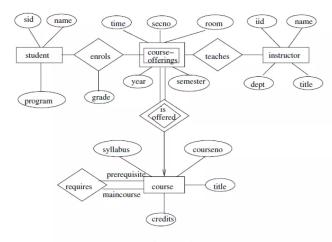
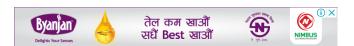


Figure 2.3 E-R diagram for a university.

Solution (b):

University registrar stables:
student (student-id, name, program)
course (courseno, title, syllabus, credits)
course-offering (courseno, secno, year, semester, time, room)
instructor (instructor-id, name, dept, title)
enrols (student-id, courseno, secno, semester, year, grade)
teaches (courseno, secno, semester, year, instructor-id)
requires (maincourse, prerequisite)



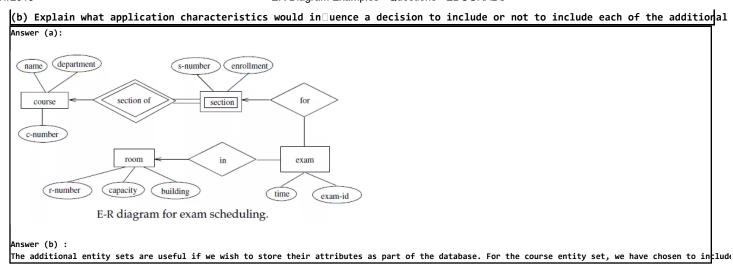
Question 3 : Consider an E-R diagram in which the same entity set appears several times. Why is allowing this redundancy a bad practice that one should avoid whenever possible?

Question 4 :

(a)Consider a university database for the scheduling of classrooms for □final exams. This database could be modeled as ∜he

- \square course with attributes name, department, and c-number
- \square section with attributes s-number and enrollment, and dependent as a weak entity set on course
- \square room with attributes r-number, capacity, and building

Show an E-R diagram illustrating the use of all three additional entity sets listed.





Question 5: A university registrar□s office maintains data about the following entities: 1. courses, including number, title, credits, syllabus, and prerequisites; 2. course offerings, including course number, year, semester, section number, instructor(s), timings, and classroom; 3. students, including student-id, name, and program; 4. instructors, including identi□cation number, name, department, and title. Further, the enrollment of students in courses and grades awarded to students in each course they are enrolled for must latAnswer : sid name iid name (time) (secno) room course-offerings student enrols teaches instructor year dept grade program offered syllabus courseno prerequisite

For more ER Diagram Example - Click Here

maincourse

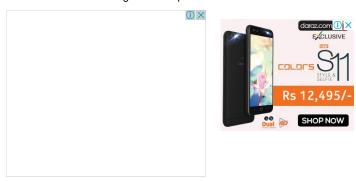
course

credits

E-R diagram for a university.

title

requires



Reference: http://www.cs.umd.edu/class/spring2003/cmsc424-0401/HW1answers.htm

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- university registers office mantain data allowing in following entity in er diagram
- A university registrar's office maintains data about the following entities: i courses including number title credits syllabus and prerequisites; ii course offerings including course number year semester section number instructor(s) timings and classroom;

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• ER DIAGRAM FOR REGISTRATION UNIVERSITY OFFICE

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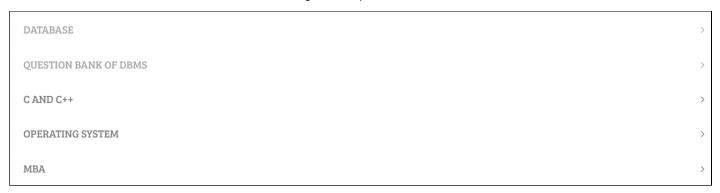
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