
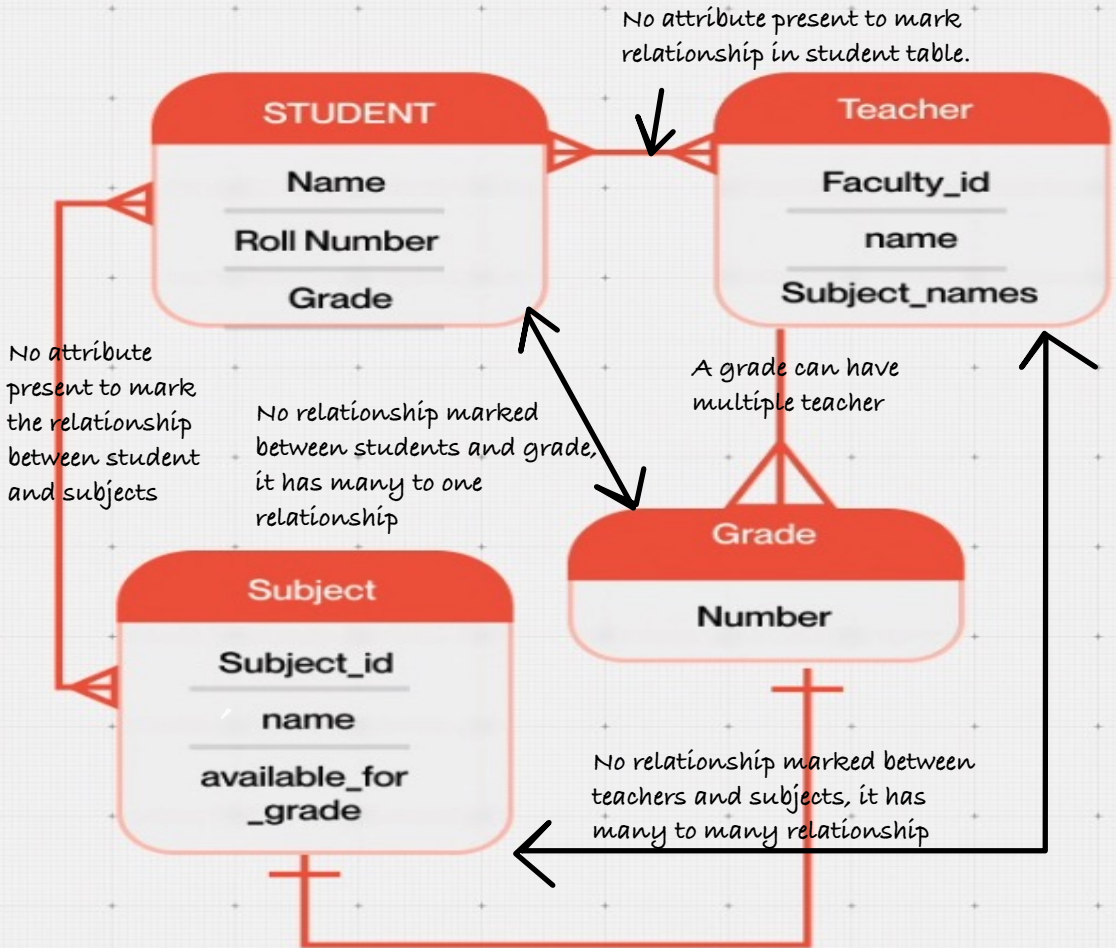


Domain Modeling Assignment 3

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Error in current ER diagram



Correct Domain Modeling ER Diagram

Domain: Tuition Centre

1. Student

- a. Identified by unique roll_number
- b. Can take as many subjects as they like
- c. Can only take 1 subject once for one grade
- d. Can fail a grade, then repeat it.
- e. During the repeat grade, can take different subjects

(Primary Key in Student Table)

(Zero to many relation of subjects with course)

(Student_id, Grade, Subject_id are primary key in course, ie Student_id, Grade_id, Subject_id, year as PK entry wont repeat)

(Student_id, Grade, Subject_id, Year are primary key in course, ie with year in PK increment entry can be repeated)

(Student_id, Grade, Subject_id, Year are primary key in course, ie with year, grade and subject_id as PK entry can be repeated)

2. Teacher

- a. Identified by a unique faculty_id
- b. Can teach multiple subjects for multiple grades

(Primary Key Teacher_Id)

(Subject Id Foreign Key, Teacher has zero to many relationship with subjects)

3. Subject

- a. Unique subject_id
- b. Has a name (Maths, Physics, English Literature, etc.)
- c. Can be taught by multiple teachers

(Primary Key Subject_Id)

(Has a name attribute)

(Has zero to many relationship with teachers)

