



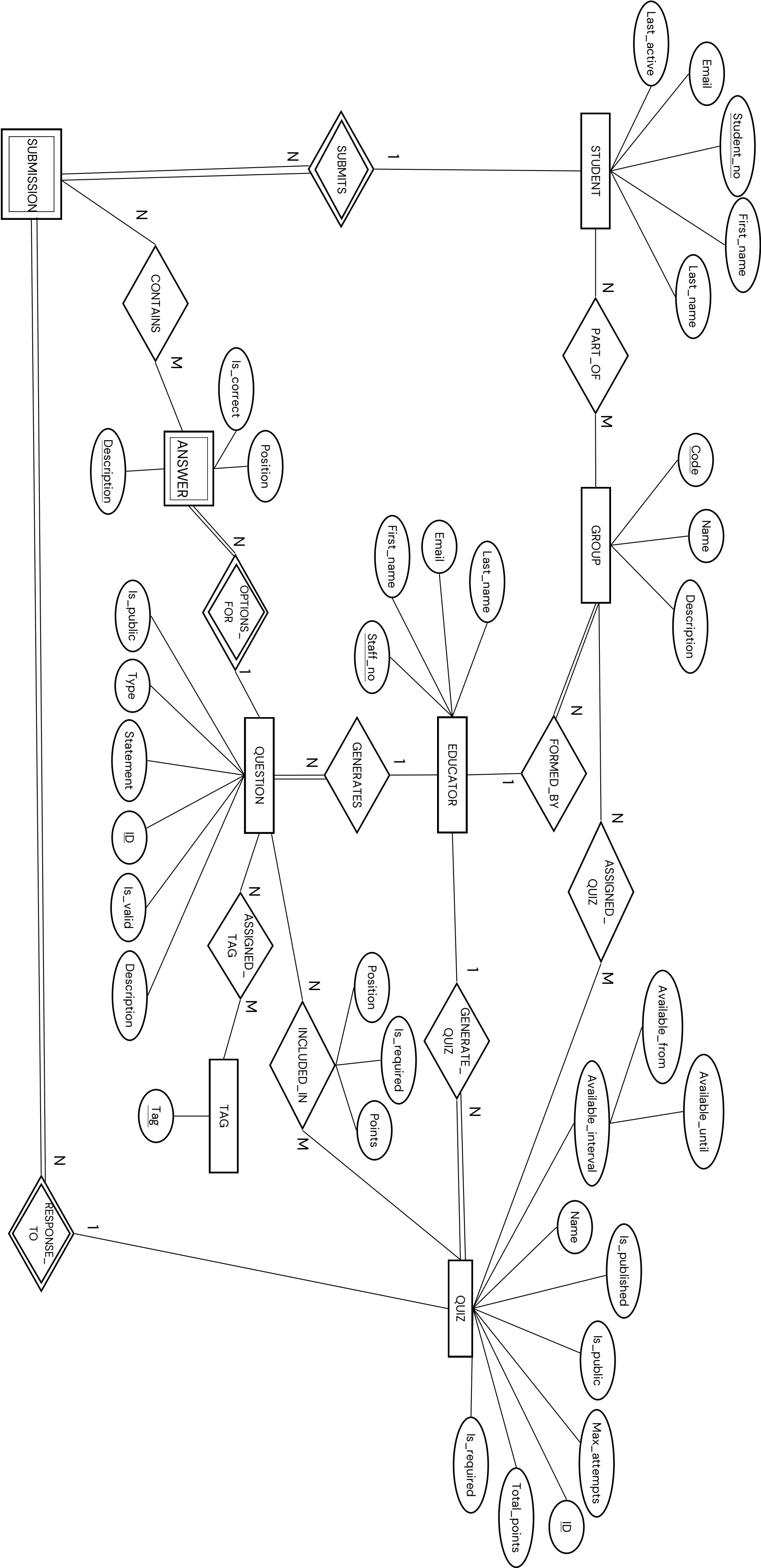
CS2102 Database Systems

Group Project Part #1 Database Design with ERD

Submitted by
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Justification for non-trivial design decisions

1. Separate entity types for Student and Educator
 - Different attributes:
 - Last_active is recorded for students but not for educators.
 - Student_no and Staff_no are of different formats (different length).
 - Different roles:
 - Functionally, both types of users have very different roles. Students are assigned to groups and attempt assigned quizzes, whereas educators assign students to groups and create quizzes.

Application's Constraints (not captured by ERD)

1. Submissions must contain answers for all mandatory questions.
2. A question can only be used on a quiz when it has a valid list of answers.
3. Both MCQs and MRQs must feature at least two answers to be valid.
4. Total points of a quiz to be derived and automatically updated based on quiz questions.
5. A student taking a quiz must at least answer all mandatory questions.