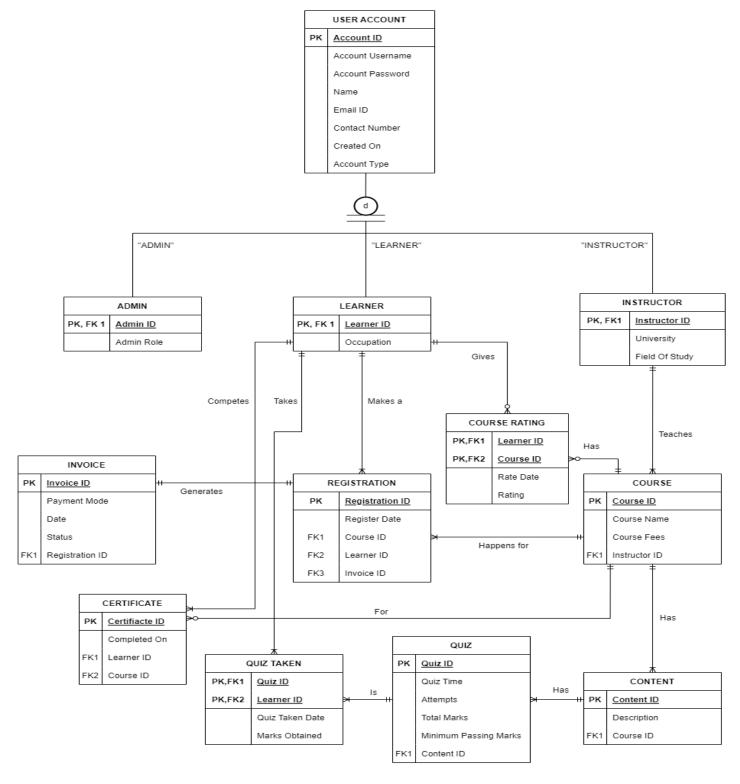
Database Management and Database Design

E-Learning Management System

Team 14

ER Diagram:

E Learning Management System



Changes committed:

- We Identified that we could create a Super Type and Sub Type Relation for the following entities:
 - 1. USER ACCOUNT
 - 2. ADMIN
 - 3. LEARNER
 - 4. INSTRUCTOR
- The USER ACCOUNT super type entity will have 3 subtype ADMIN, STUDENT, and INSTRUCTOR. ADMIN(who manages the system), LEARNER(who register for a courses and completes it) and INSTRUCTOR(who teaches the course). We have applied Total specialization rule since USER ACCOUNT will be created by either ADMIN or STUDENT or INSTRUCTOR.
- A USER ACCOUNT cannot be for the admin, learner, and instructor at the same time. Therefore, the disjoint rule is indicated in the circle.
- We added Date attribute in QUIZ TAKEN and COURSE RATING entity.
- No multivalued attributes, no composite attributes, and no many-to-many relationships are present in the above diagram.
- All entities have a primary key, and foreign keys for any relationships they participate in.