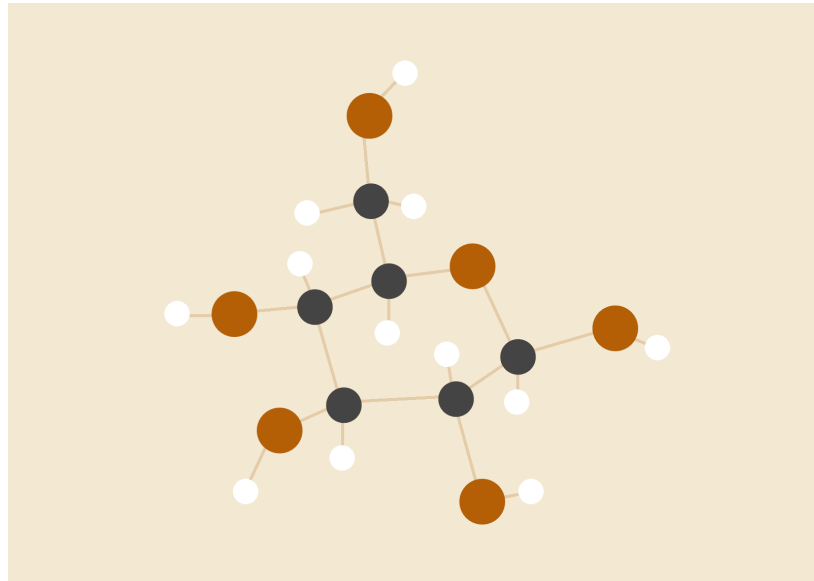


DBMS ER Model

Online Learning Platform



Members

Name : Aman Seervi

Roll No : 21CSB0B01

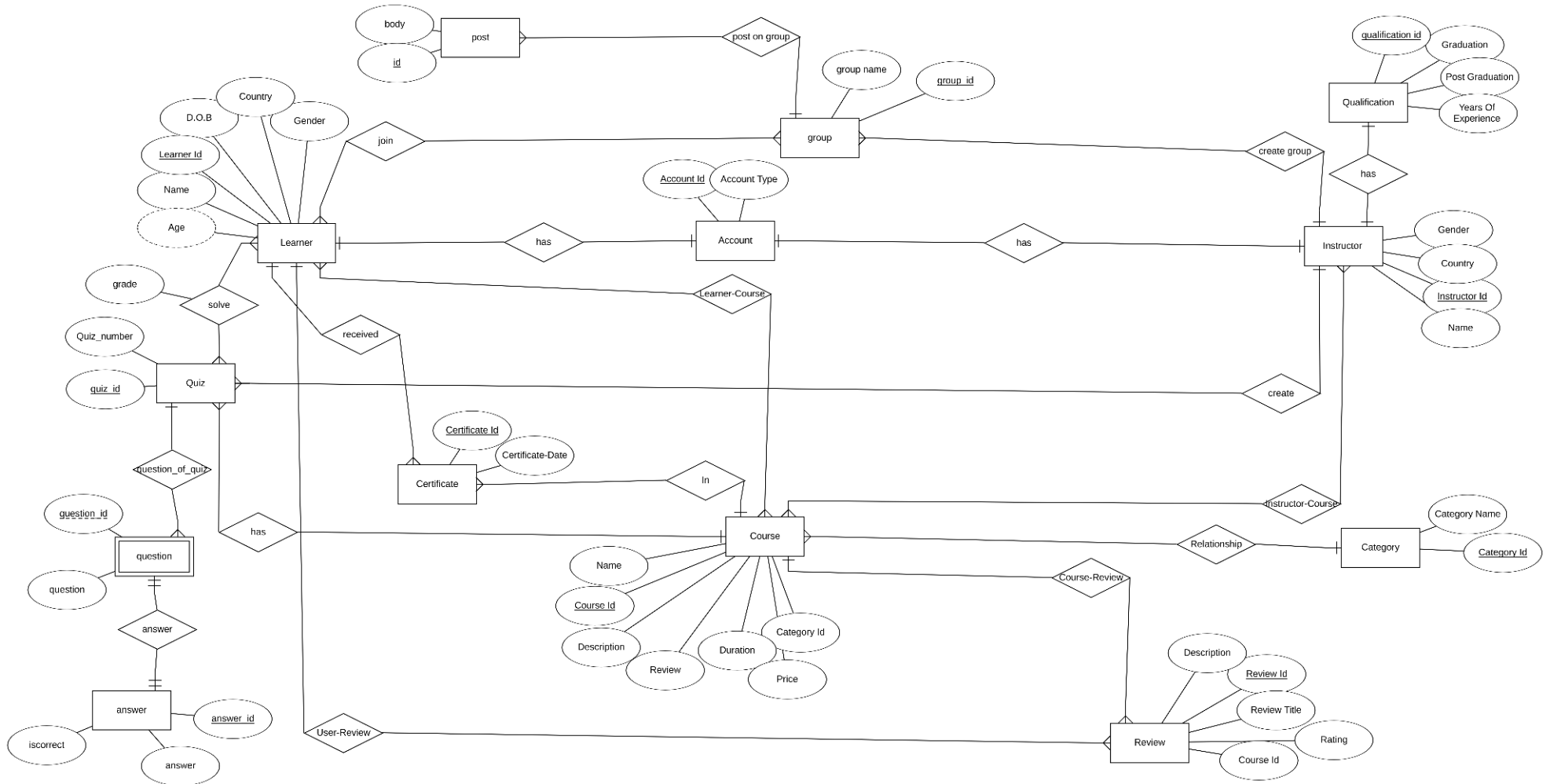
Section : B

Name: Naman Mulani

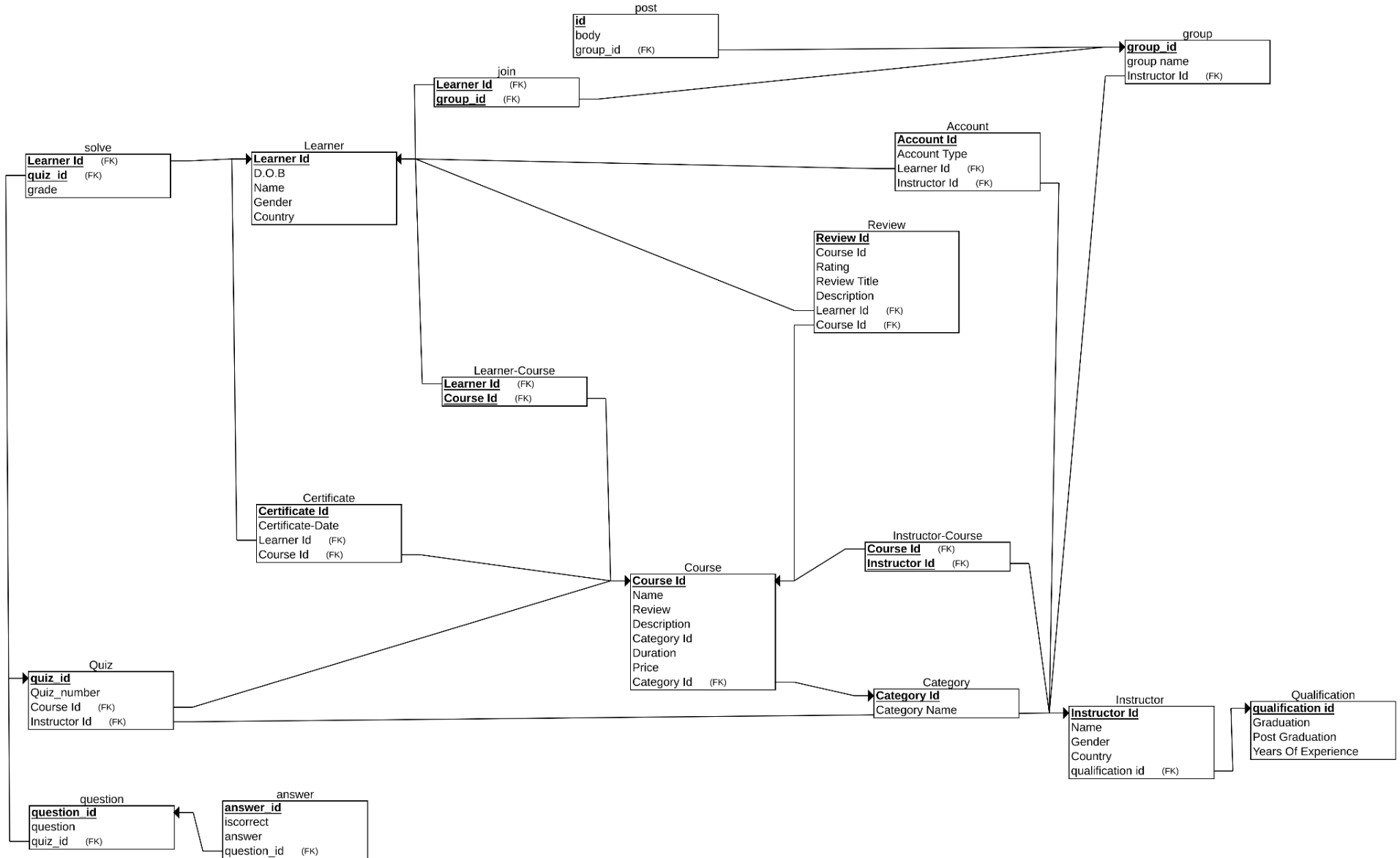
Roll No : 21CSB0B38

Section : B

ER Model



Relational Schema



Assumptions

1. An account can either belong to a learner or an instructor.
2. A learner can buy many courses. Also a particular course can be bought by many distinct learners.
3. A learner can receive many certificates, but a particular certificate can only belong to one learner who has specialized in that corresponding course.
4. A single course might yield a lot of learners a certificate but once again a particular certificate can only belong to a single course.
5. An instructor can create many courses but a particular course can only belong to one instructor.
6. Many courses can belong to a certain category but a single course can only belong to a particular category.
7. A course can be reviewed by many learners but a particular review can only be shared corresponding to a particular course.
8. A learner can share many reviews across courses but a particular review only belongs to a single unique learner.
9. We assume that each course has a group associated with it and learners may opt to join it or not.
10. An instructor can create multiple courses and hence can naturally be part of multiple groups.
11. A group can have many learners.
12. A group can have multiple posts, while a particular post can only belong to a single group
13. One learner can take multiple quizzes and a quiz is taken by many different learners.
14. One instructor can create many quizzes, while a particular quiz can only belong to a particular instructor.
15. One quiz can have many questions, while a particular question can only belong to one quiz.
16. A question can and must have only one answer, and vice versa.