

E-Learnify: A Database Management System for an Online Learning Platform

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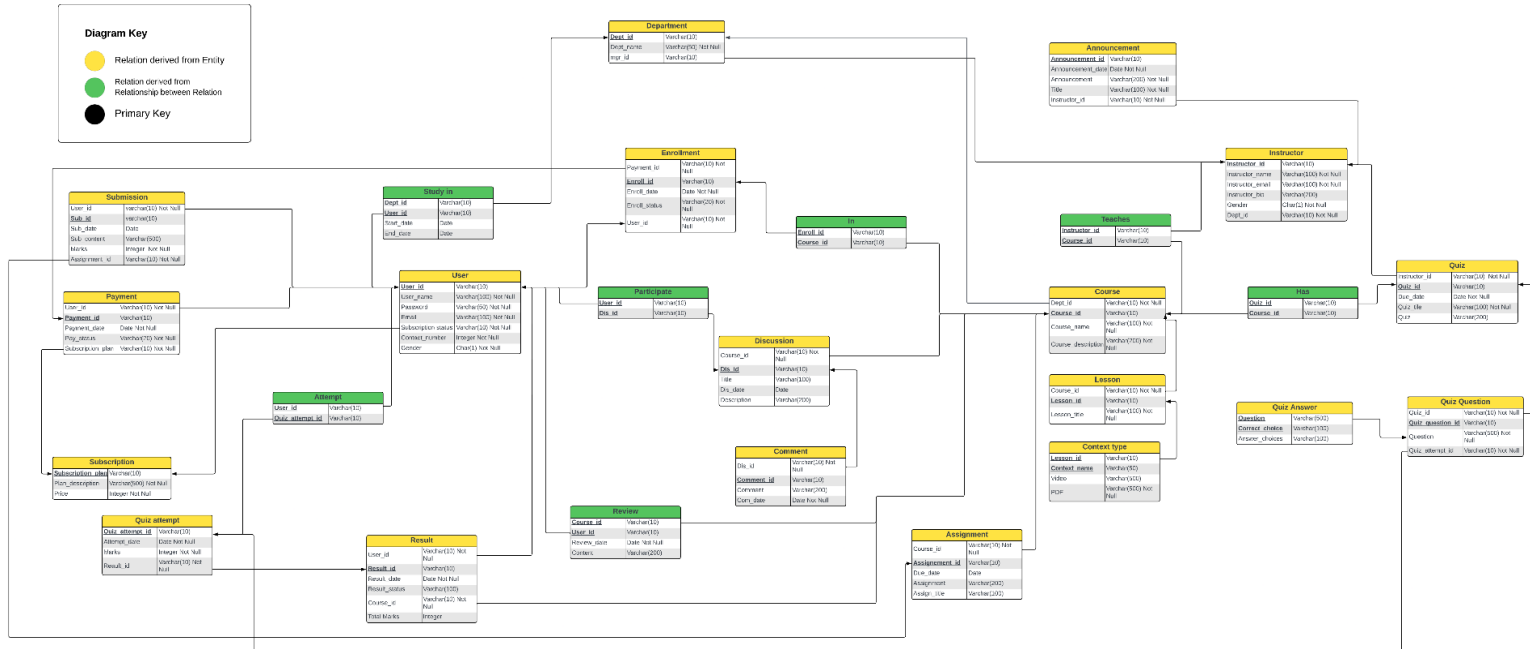
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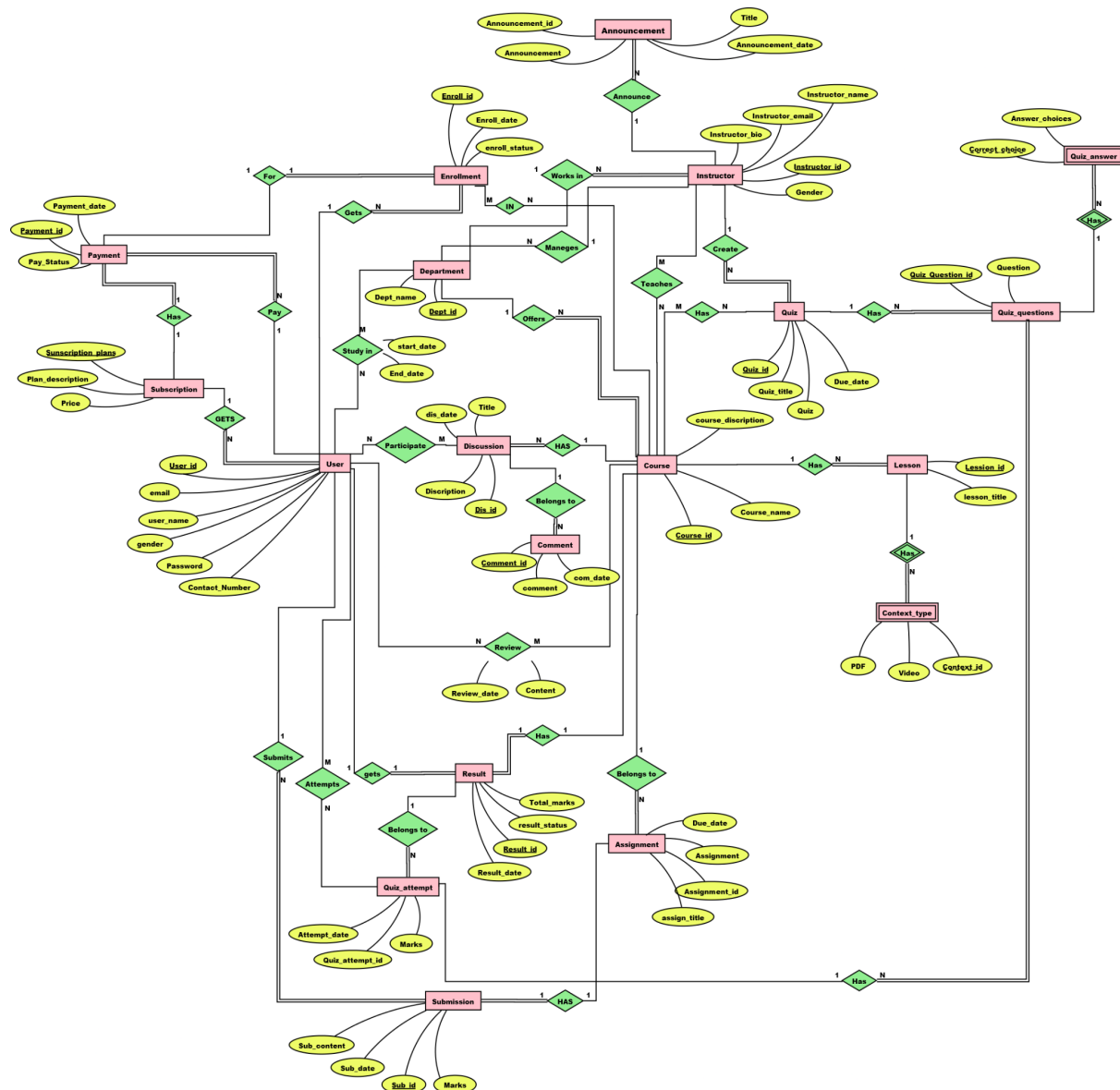
- Phone number: 9328423509

Relational Diagram

In case the image is not visible, the link is provided



Normalization proof



FD_{min}

User

User_id → Name

User_id → Password

User_id → Email

User_id → Subscription_status

User_id → Contact_number

User_id → Gender

Discussion

Dis_id → Discussion_title

Dis_id → Dis_description

Dis_id → Discussion_date

Dis_id → Course_id

Comment

Comment_id → Dis_id

Comment_id → Comment_description

Comment_id → Comment_date

Subscription

Subscription_plan → Plan_description

Subscription_plan → Price

Department

Dept_id→Dept_name

Department→mgr_id

Payment

Payment_id→User_id

Payment_id→Payment_date

Payment_id→Status

Payment_id→Amount

Payment_id→Subscription_plan

Submission

Sub_id→User_id

Sub_id→Sub_date

Sub_id→Sub_content

Sub_id→Marks

Sub_id→Assignment_id

Quiz_attempt

Quiz_attempt_id→Attempt_date

Quiz_attempt_id→Marks

Quiz_attempt_id→Result_id

Result

Result_id → User_id

Result_id → Course_id

Result_id → Total_marks

Result_id → Result_Status

Result_id → Result_date

Course

Course_id → Dept_id

Course_id → Course_name

Course_id → Course_Description

Instructor

Instructor_id → Instructor_name

Instructor_id → Instructor_bio

Instructor_id → Instructor_email

Instructor_id → Gender

Instructor_id → Dept_id

Quiz

Quiz_id → Instructor_id

Quiz_id → Quiz_title

Quiz_id → Due_date

Quiz_id → Quiz_description

Quiz_question

Quiz_Question_id→Quiz_id

Quiz_Question_id→Question

Quiz_Question_id→Quiz_attempt_id

Quiz_Answer

{Question,Correct_choise}→Answer_choices

Assignment

assignment_id → cource_id

assignment_id → due_date

assignment_id →assignment_description

assignment_id → Assign_title

Announcement

Announcement_id →Announcement_date

Announcement_id → instructor_id

Announcement_id → title

Announcement_id → Announcement

Lesson

lesson_id → course_id

lesson_id → Lesson_title

Context_type

{Lesson_id, Context_name} → video

{Lesson_id, Context_name} → pdf

Enrollment

Enroll_id → payment_id

Enroll_id → user_id

Enroll_id → Enroll_date

Enroll_id → Enroll_status

Study_in

{Dept_id, user_id} → start_date

{Dept_id, user_id } → end_date

Attempts

User_id, quiz_attempt_id

Review

User_id, course_id → revie_date

User_id , course_id → content

Teaches

instructor_id, course_id

In

Enrollment_id, course_id

Has

quiz_id, course-id

Participate

User_id, Dis_id

Changes Made

Relational Diagram

1. In the submission relation, assignment_id was added, and from the assignment relation, sub_id was removed.
2. Attributes' limits were increased for data entry.

In case Relational-Schema is not clear, we have attached a .svg file link below for downloading purposes:

https://drive.google.com/file/d/1lga8LwzOWpa8GbxfwzWQBGHgTO_95Sps/view?usp=share_link

https://drive.google.com/file/d/1lj7yh3QvZMCQ0wrHZs7RlZNZS3U4YPRY/view?usp=share_link