

1) Users (Mentor) → Course
-One-to-Many
“One mentor can create multiple courses, but each course belongs to one mentor.”

2) Category → Course
-One-to-Many
“One category can have many courses, but each course belongs to one category.”

3) Course → Section → Topic
-One-to-Many
“One course has many sections, one section has many topics.”

4) Topic → Lecture Material
-One-to-Many
“One topic can have multiple materials like PDF, video links, and PPT.”

5) Student ↔ Course (via Enrollment)
-Many-to-Many
“One student can enroll in many courses and one course can have many students. This is handled using the Enrollment table.”

6) Course → Assignment → Submission
-One-to-Many
“One course has multiple assignments and each assignment has many student submissions.”

7) Student → Certificate
-One-to-Many
“One student can earn multiple certificates after completing courses.”

