



- 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."