CS403P — Database Management System (Practical)

Assignment No. 1 — Fall 2026 | Sample Solution

Task 1 — Entities

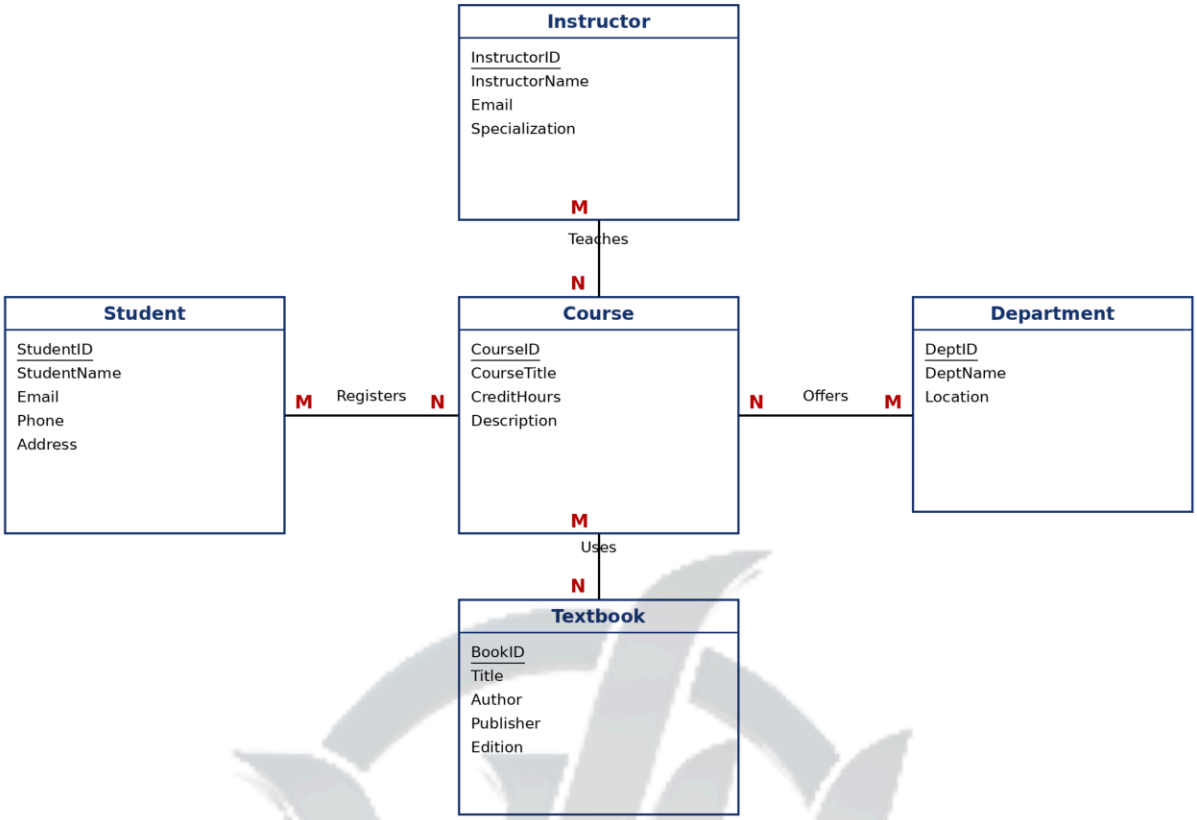
Entity	Description
Student	A university student who registers for courses
Course	A course offered by the university
Instructor	An instructor who teaches courses
Department	A department that offers courses
Textbook	A textbook used in a course

Task 2 — Attributes of the Entities

Entity	Attributes (underlined = Primary Key)
Student	StudentID, StudentName, Email, Phone, Address
Course	CourseID, CourseTitle, CreditHours, Description
Instructor	InstructorID, InstructorName, Email, Specialization
Department	DeptID, DeptName, Location
Textbook	BookID, Title, Author, Publisher, Edition

Task 3 — Relationships

Entity 1	Relationship	Entity 2	Cardinality
Student	Registers for	Course	M : N
Instructor	Teaches	Course	M : N
Department	Offers	Course	M : N
Course	Uses	Textbook	M : N


Instructor
InstructorID
InstructorName
Email
Specialization
M
Teaches
N
Student
StudentID
StudentName
Email
Phone
Address
M
Registers
N
Course
CourseID
CourseTitle
CreditHours
Description
N
Offers
M
Department
DeptID
DeptName
Location
M
Uses
N
Textbook
BookID
Title
Author
Publisher
Edition



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