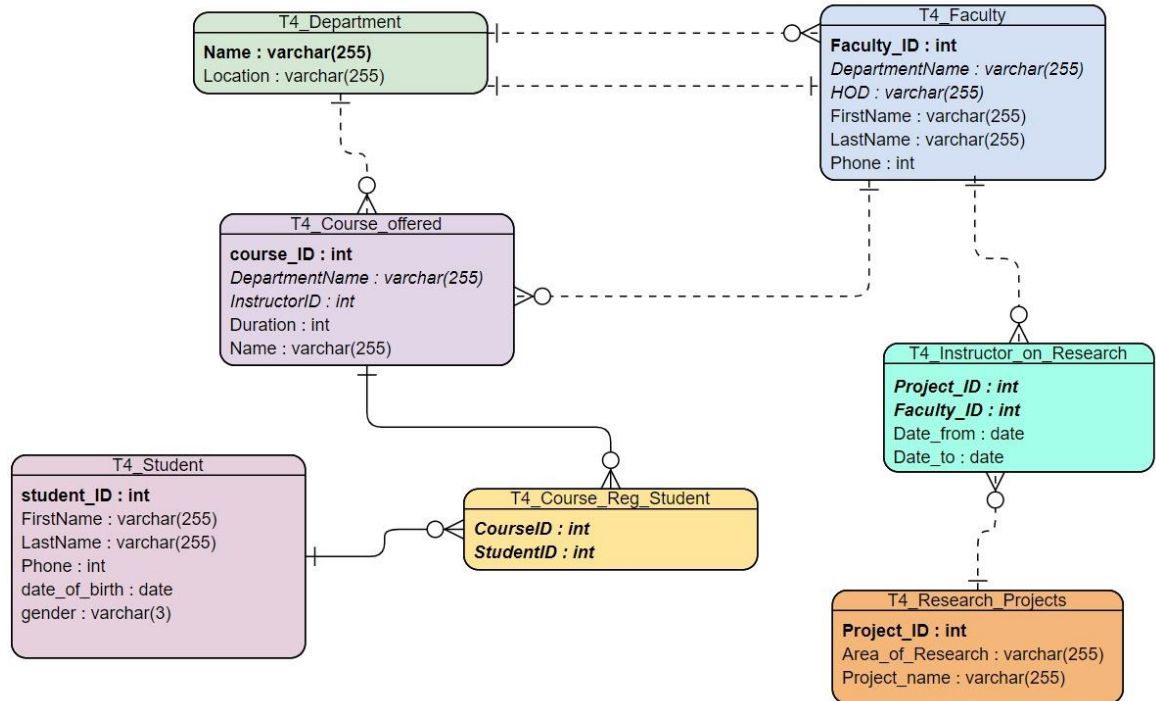


UNIVERSITY ER DIGRAM



EXPLANATION OF ER DIGRAM

Entity Name	Attributes	Primary Key	Foreign Key	Relationship	Entity Type
T4_Department	>Name >Location	Name	-----	T4_Faculty (One to many) <hr/> T4_Faculty (One to one) <hr/> T4_Course (One to many)	<u>Strong entity</u> because each department name is unique.
T4_Faculty	> Faculty_ID >DepartmentName >HOD >FirstName >LastName >Phone	Faculty_ID	>DepartmentName >HOD	T4_Department (Many to one) <hr/> T4_Department (One to one) <hr/> T4_Course (One to many)	<u>Strong entity</u> because each instructor id is unique.

				T4_Instructor_on_Research (One to many)	
T4_Course	>ID >DepartmentName >InstructorID >Duration >Name	Course_ID	>DepartmentName >InstructorID	T4_Department (Many to one) T4_Faculty (Many to one)	<u>Strong entity</u> because each course id is unique.
T4_Student	>ID >FirstName >LastName >Phone	Student_ID	-----	T4_Course_Reg_Student (One to many)	<u>Strong entity</u> because each student id is unique.
T4_Course_Reg_Student	>CourseID >StudentID	>Course ID >StudentID	>CourseID >StudentID	T4_Course (Many to one) T4_Student (Many to one)	<u>Weak entity</u> because each student can have multiple Courses .
T4_Instructor_on_Research	>Project_ID >Faculty_ID >Date_from >Date_to	Project_ID Faculty_ID	>Project_ID >Faculty_ID	T4_Faculty (Many to one) T4_Research_projects (Many to one)	<u>Weak entity</u> because each instructors can have multiple projects AND VICE VERSA

T4_Research_projects	>Project_ID >Area_of_research >Projectname	>Project_ID	-----	T4_Instructor_on_Research (One to many)	<u>Strong entity</u> because each project id is unique.
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