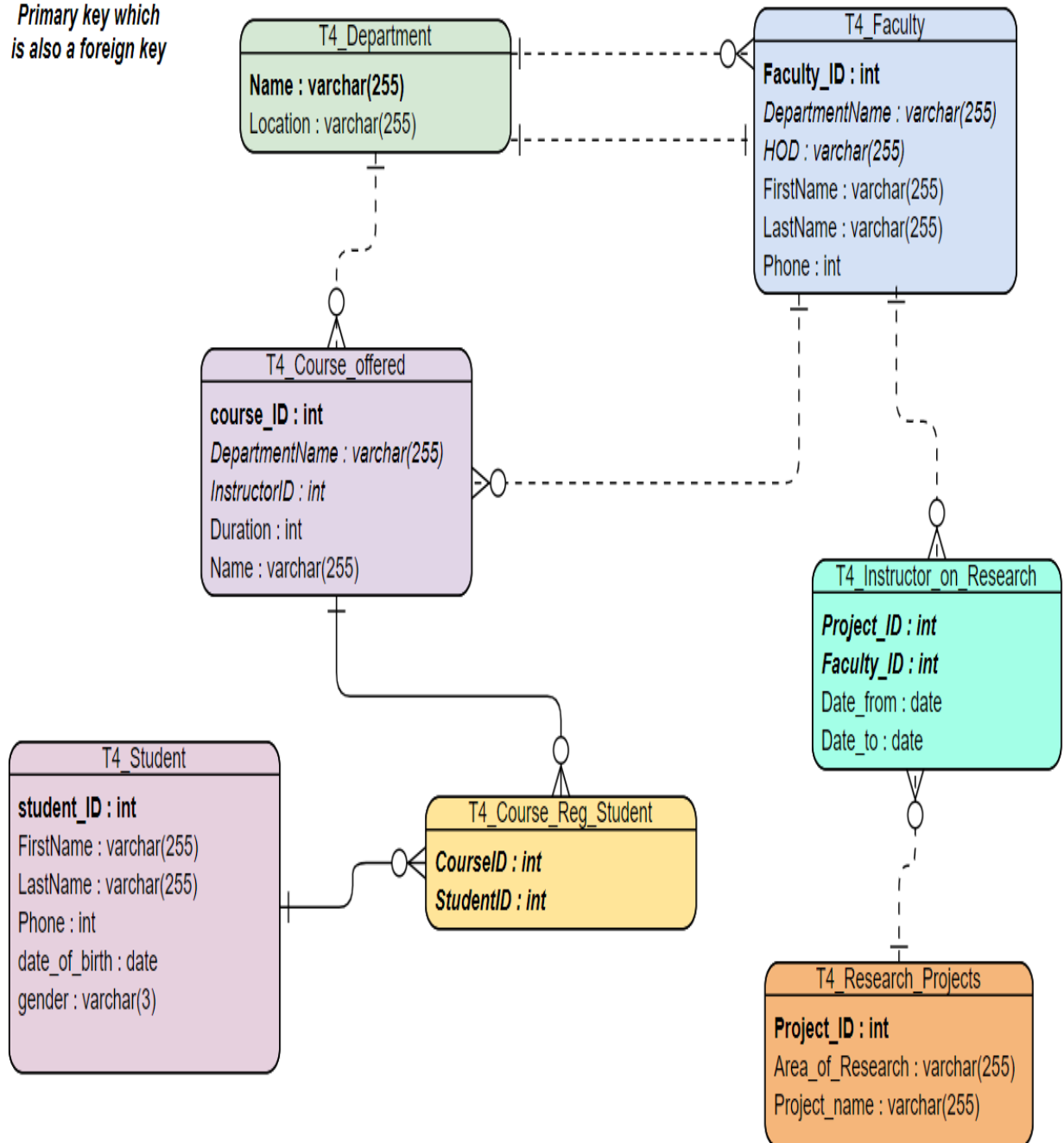


Bold: Primary key
Italics: Foreign Key
Bold+Italics:
 Primary key which
 is also a foreign key



EXPLANATION OF ER DIAGRAM:

Entity Name	Attributes	Primary Key	Foreign Key	Relationship	Entity Type
T4_Department	>Name >Location	Name	-----	<div>T4_Faculty (One to many)</div> <div>T4_Faculty (One to one)</div> <div>T4_Course (One to many)</div>	<u>Strong entity</u> because each department name is unique.
T4_Faculty	>Faculty_ID >DepartmentName >HOD >FirstName >LastName >Phone	Faculty_ID	>DepartmentName >HOD	<div>T4_Department (Many to one)</div> <div>T4_Department (One to one)</div> <div>T4_Course_offered (One to many)</div> <div>T4_Instructor_on_Research (one to many)</div>	<u>Strong entity</u> because each instructor id is unique.
T4_Course_offered	>Course_ID >DepartmentName >InstructorID >Duration >Name	Course_ID	>DepartmentName >InstructorID	<div>T4_Department (Many to one)</div> <div>T4_Faculty (Many to one)</div> <div>T4_Course_Reg_Student (one to many)</div>	<u>Strong entity</u> because each course id is unique.
T4_Student	>ID >FirstName >LastName >Phone >date_of_birth >gender	ID	-----	T4_Course_Reg_Student (One to many)	<u>Strong entity</u> because each student id is unique.

T4_Course_Reg_Student	>CourseID >StudentID	>CourseID >StudentID	>CourseID >StudentID	T4_Course_offered (Many to one) T4_Student (Many to one)	<u>Weak entity</u> because each student can have multiple Courses And vice versa..
T4_Instructor_on_Research	>ProjectID >Faculty_ID >Date_from >Date_to	>ProjectID >Faculty_ID	>ProjectID >Faculty_ID	T4_Faculty (Many to one) T4_Research_Projects (Many to one)	<u>Weak entity</u> because each Faculty can have multiple Projects And vice versa..
T4_Research_Projects	>Project_ID >Area_of_Research >Project_name	Project_ID	-----	T4_Instructor_on_Research (One to many)	<u>Strong entity</u> because each project id is unique.