



UNIVERSITY DATABASE MANAGEMENT SYSTEM(UDMS)

تم بواسطة :

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Project Description:

UNIVERSITY DATABASE MANAGEMENT SYSTEM (UDMS) deals with the Data of university, faculty, and student information within the university. UDMS is an automation database system, which is used to store the information about employees (teacher, Cleaner and Security man) such as (name, Employee ID, address, telephone number, date of birth, salary). Information about faculty such as (Faculty name and Number of Students). Information about Departments such as (Department name, number of student). Information about student such as (student name, student ID, address, telephone number, date of birth). Information about buildings such as (building name). Information about courses such as (course name, course code, course degree). Starting from registration of a new student in the university, it stores all the details regarding marks of the students and also stores all information about Graduation project such as (project name, project code).

Assumptions and Constraints:

Assumptions:

University:

- University must have one University President

Faculty:

- faculty must have at least one Departments
- Department must be in Faculty
- faculty must have one Dean of the Faculty
- student must be in Faculty

Department:

- Department must be in at least one building
- Department must have at least one Teacher

Building:

- Building may contain many departments (0 or many)
- Building must have at least one Cleaner and one security man

Teacher:

- Teacher (professor, teaching Assistant) must belong to one Department
- Professor may teach many courses

- Professor may supervises many Graduation Project
- teaching Assistant must teach at least one course
- Teaching Assistant may guides many projects

Cleaner:

- Cleaner must clean at least one building

Security man:

- security man must guard at least one building

Course:

- course must have at least one professor
- course must have at least one Teaching Assistant
- course may taught or not
- course must have exam

Student:

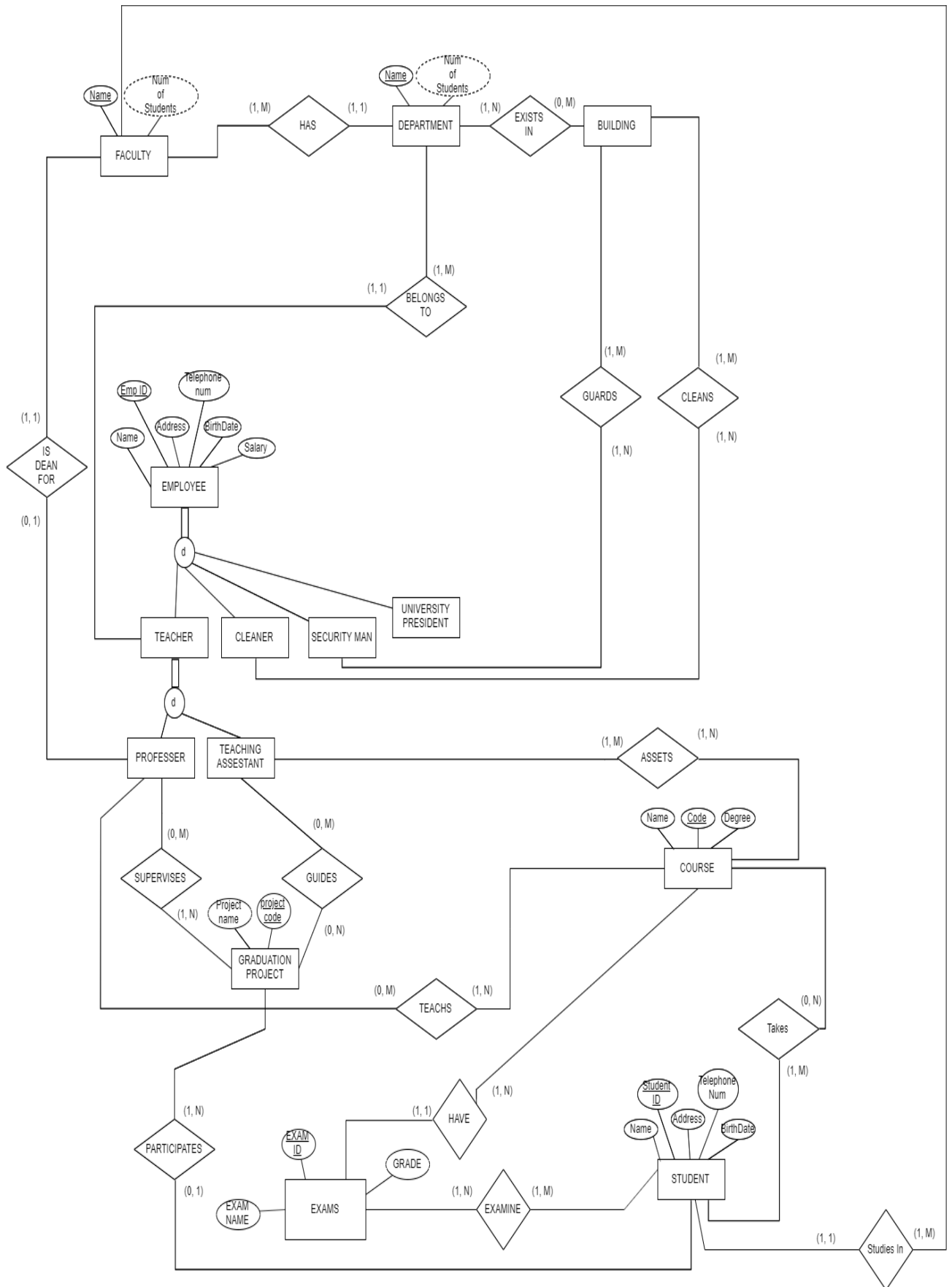
- student must be in Faculty
- student must take courses
- Student can take many course and many students can take same course
- Student may have Graduation project in last year

Graduation Project:

- Graduation project must have at least one professor
- Graduation project may have Teaching Assistant (0,m)

Constraints:

EER DIAGRAM:



Relation DIAGRAM:

UNIVERSITY RELATIONAL SCHEMA

