



University of Barishal

ASSIGNMENT

Course Title : Database Management System

Topic : Creating relational database using MySQL for department handing.

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Roll : 05-002-10

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Introduction:

A relational database based on department handling typically organizes data into tables (or relations) that correspond to various entities related to the department structure within an organization. The relationships between these tables are defined through primary and foreign keys.

Entities used for a Relational Database on Department Handling:

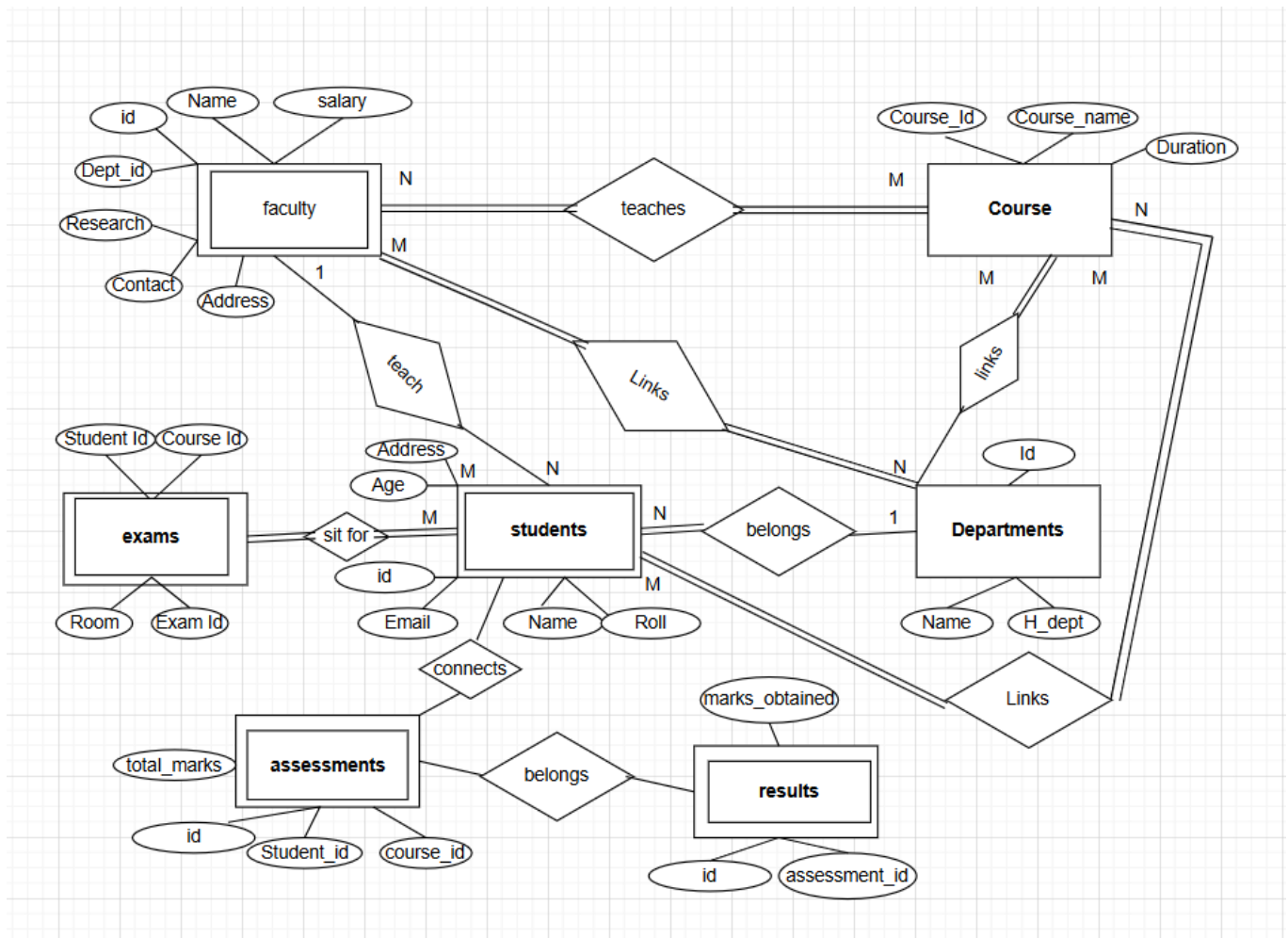
- Department
- Faculty (workers in the department)
- Student
- Course
- Exam
- Assessments
- Results

Relationships:

- **One-to-Many:** A department can have many employees, but each employee belongs to one department. Similarly, a department can oversee many courses, but a project is handled by one department.
- **Many-to-Many:** Students can sit for multiple exams, and each exam can have multiple courses.

Entity relationship (ER) Diagram:

An Entity Relationship (ER) Diagram is a type of flowchart that illustrates how “entities” such as people, objects or concepts relate to each other within a system.



Link of ER diagram:

https://app.diagrams.net/#G1Rk9QKt2k_Z148CMIH7snHYRb0L1rj1L_#%7B%22pageId%22%3A%22IVDWKNBKnvnYlqpyOUfd%22%7D