

BVRIT HYDERABAD college of Engineering for women

DATABASE MANAGEMENT SYSTEMS LAB MANUAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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**EXPERIMENT NO – 01**

**ER DIAGRAM OF A COLLEGE DATABASE**

**AIM:** Draw an ER diagram of a college database.

**OBJECTIVES: In college database, we have following:**

* **A college contains many departments.**
* **Each department can offer any number of courses.**
* **Many instructors can work in a department.**
* **An instructor can work only in one department.**
* **For each department there is a Head.**
* **An instructor can be head of only one department.**
* **Each instructor can take any number of courses.**
* **A course can be taken by only one instructor.**
* **A student can enroll for any number of courses.**
* **Each course can have any number of students.**

**ER(Entity-Relationship)Model**

ER diagram for college management system is a visual presentation of entities and relationships of school management software database. Now we will draw an ER diagram for the data set described above. Make sure to indicate all cardinality constraints specified above. The ER diagram should not contain redundant entity sets, relationships, or attributes. Also, use relationships whenever appropriate.

#### **Entity**

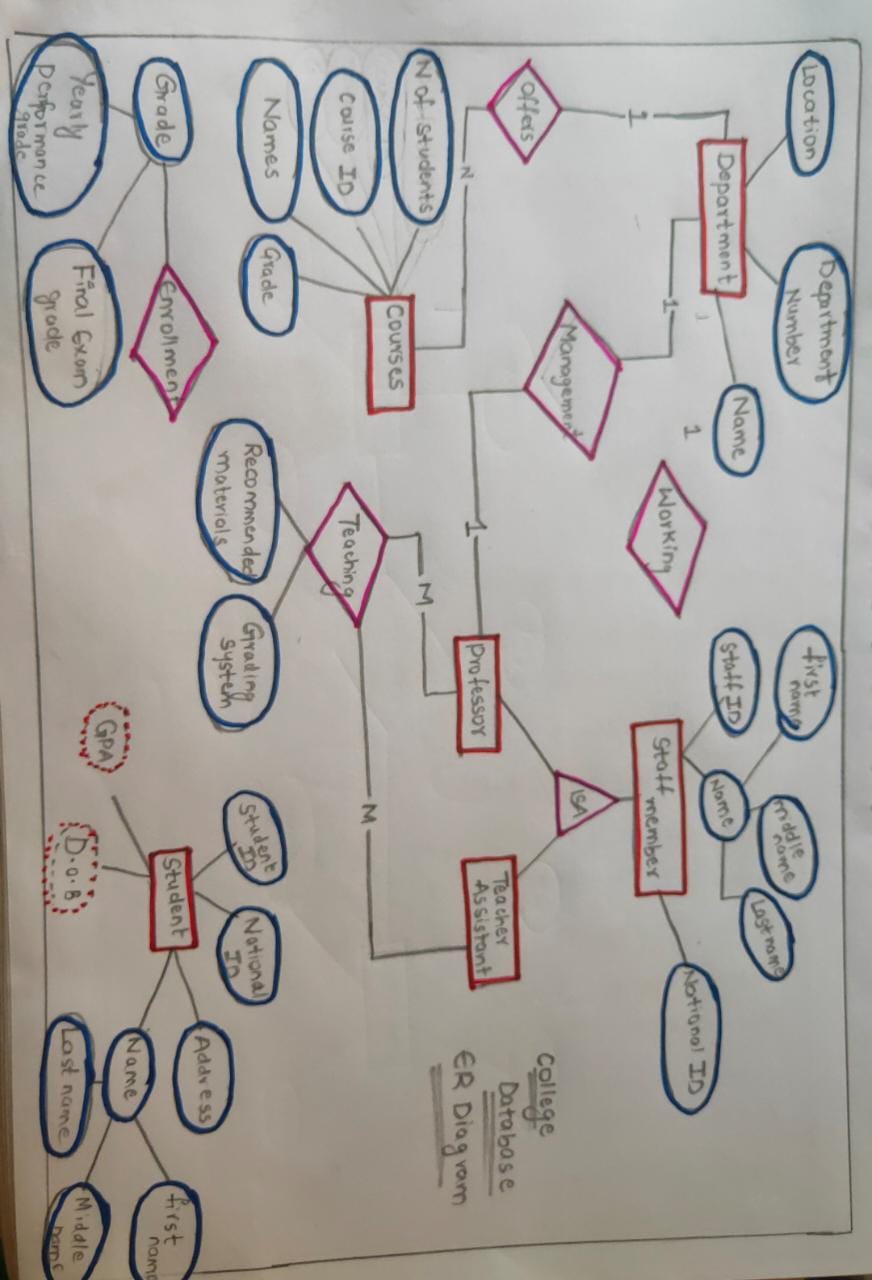
An entity can be a person, place, event, or object that is relevant to a given system.

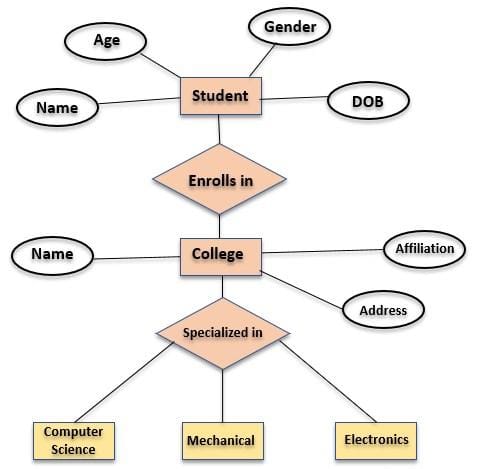
#### **Attribute**

An attribute is a property, trait, or characteristic of an entity, relationship, or another attribute.

#### **Relationship**

A relationship describes how entities are connected.

**** **\*\*\*\***  **COLLEGE DATABASE ER DIAGRAM \*\*\*\***

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