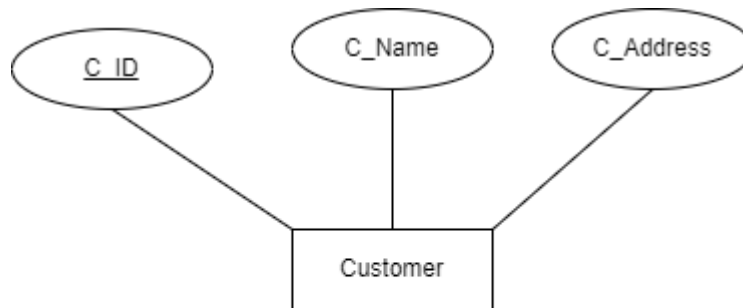# ER to Relational Mapping

Step 1: Mapping of Regular Entity Types.

Attributes:

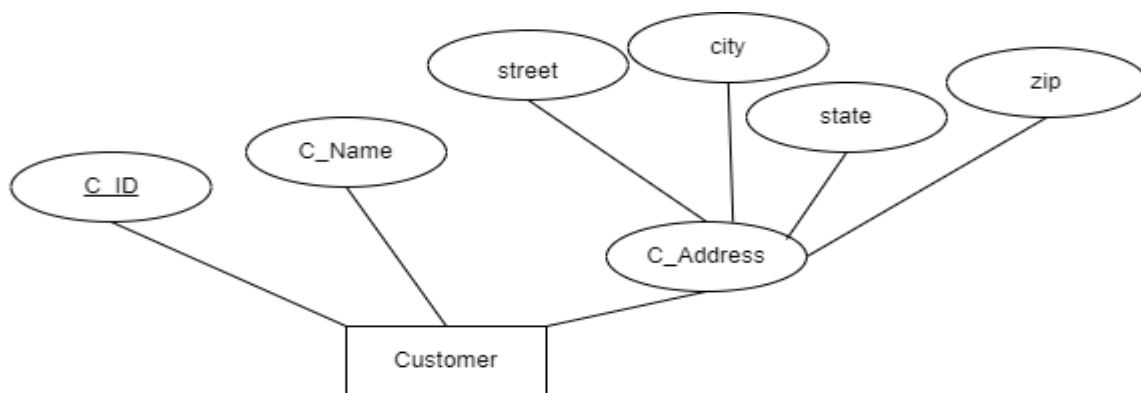## **<u>Single Attribute</u>**

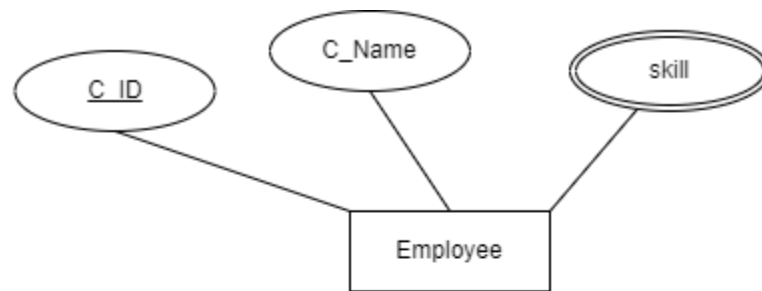| C_ID	C_Name	C_Address

<u>Composite Attribute</u>

Remove C_address and write the content.

C_ID	C_Name	street	city	state	zip

Multivalued Attribute

Employee

E_ID	C_Name	street

Emp_skill

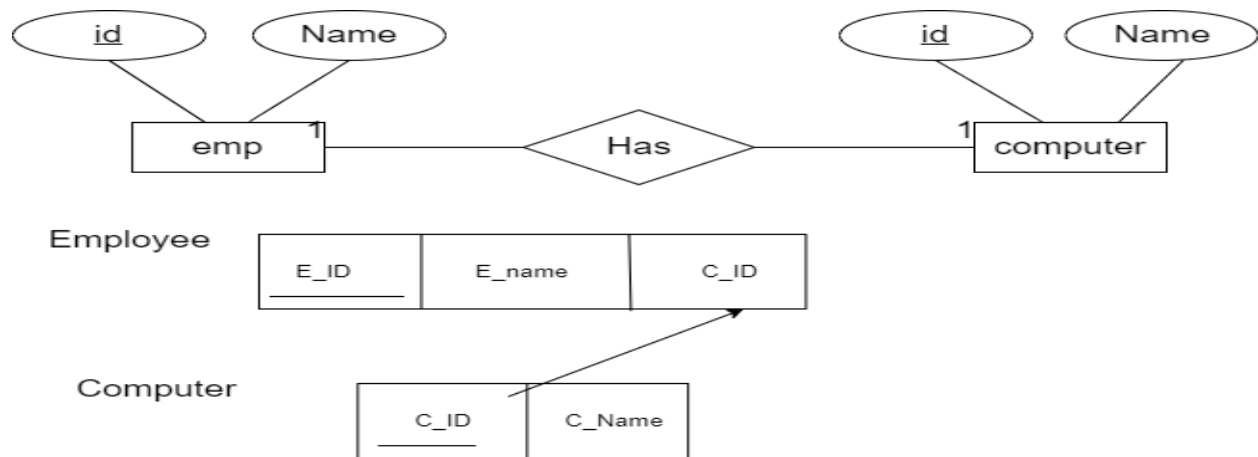| E_ID	E_skill

Relationship:

1)Binary relationship

One to one:
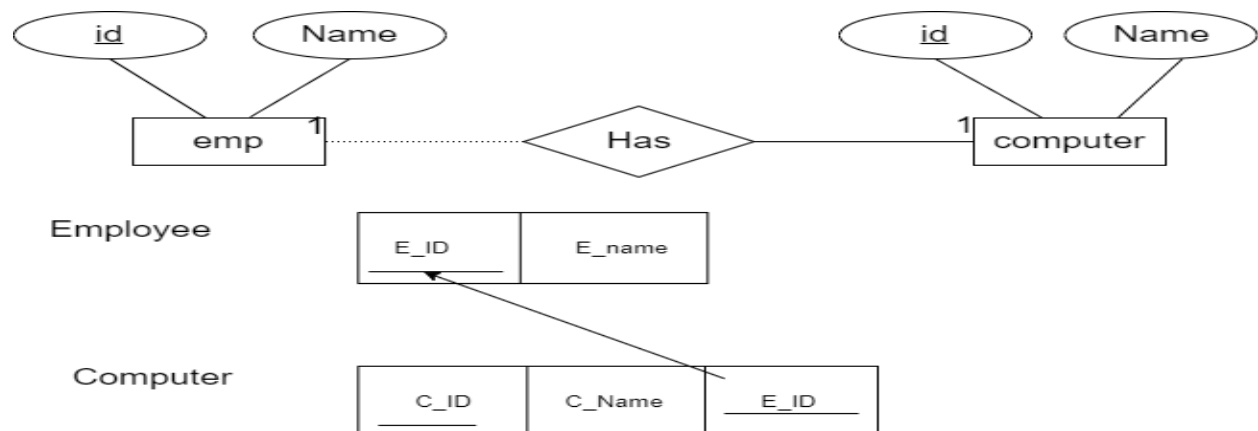
Mandatory to Mandatory

اجباري ل اجباري

Add to any Mandatory entity.

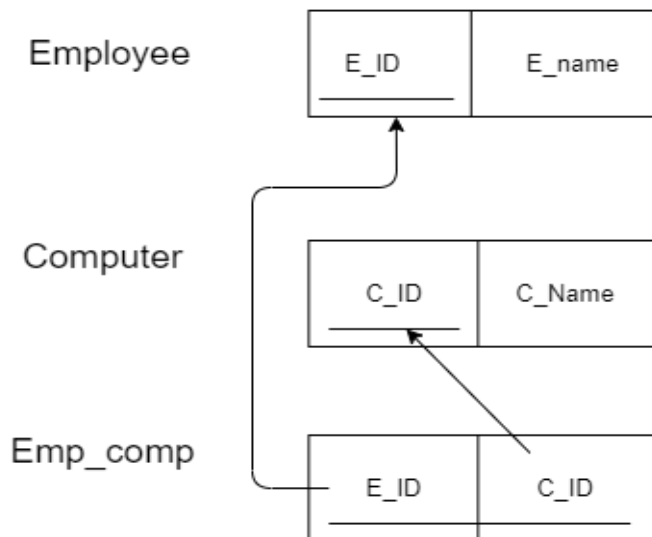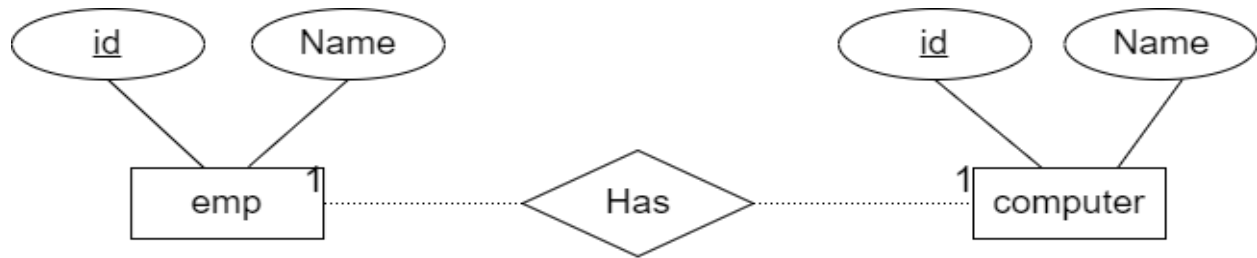## Mandatory to optional

اجباري ل اختياري
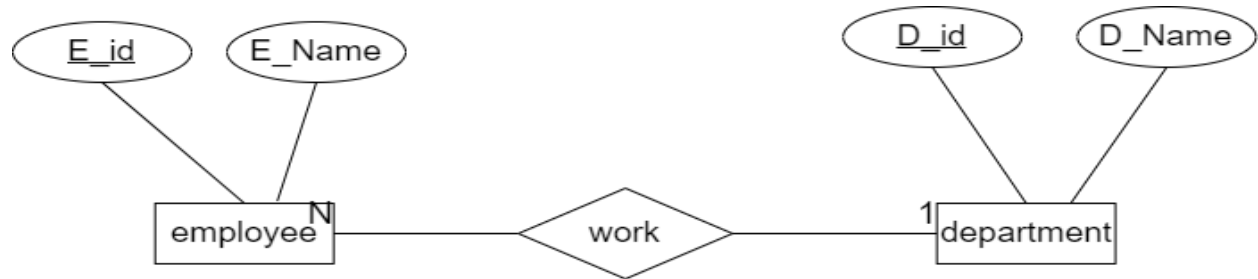
Add to Mandatory entity.

optional to optional

اختياري ل اختياري

Create new table

One to Many:

Add to the Many Table.

E_id E_Name D_id D_Name

employee —— N work 1 —— department

Employee

E_ID	E_name	D_ID

Department

D_ID	D_Name

Many to Many:

E_id E_Name bonus P_id P_Name

emp N ...... work N project
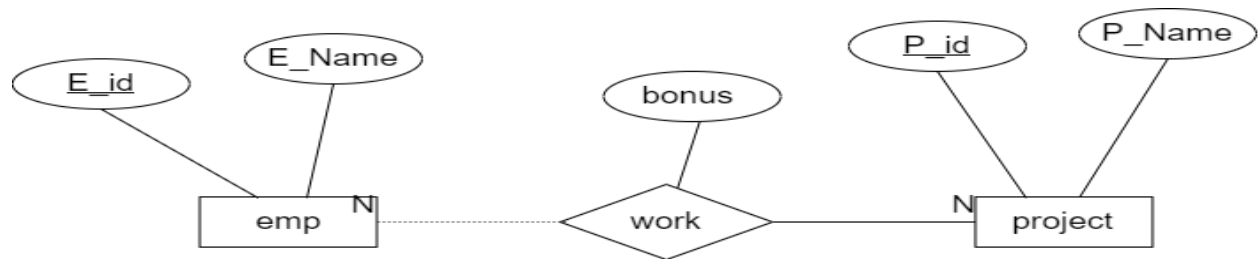
Employee

E_ID	E_name

project

P_ID	P_Name

Employee_project

E_ID	P_ID	bonus

2) Unary relationship:

Add to same table.