



1. Find out the entity type

1)Employee(Strong Entity)

This entity has many Attributes these are:-

- 1)Ssn
- 2)Sex
- 3)Bdate
- 4)Address
- 5)Salary
- 6)Name
 1. Fname
 2. Lname
 3. Midname

These are composites attributes

2)Project(Strong entity)

This entity has many attributes these are:-

- 1)Name
- 2)Number
- 3)Location

3)Department(Strong entity)

This entity has many attributes these are:-

- 1)Name
- 2)Location
- 3)Number

4)Dependent(weak entity)

- 1)Name
- 2)Sex
- 3)Relationship
- 4)Birth_date

2. Find out the relationships

- 1)Dependents_of(weak relationship)
- 2)Supervision
- 3)Works_on
- 4)Manages
- 5)Works_for
- 6)Controls

3.Describe the ER Diagram in word

1)Many to one:-

- 1) Employee supervision employee
- 2) Employee works for Department
- 3) Employee dependents of Dependent
- 4) Department controls Project

2)Many to many

- 1) Employee works on project

3)One to one

- 1) Employee manages department

Attributes

Number_of_employee is **Derived** attributes

Location of department attribute is **Multivalued** attributes

Employee works for Department is **Total participation**
Employee supervision Employee **Partial participation**