

1. Find out the entity type

Employee (ssn,fname,lname,minit,bdate,address salary,sex,) strong entity

Department (name,number,location) strong entity

Project (name,number,location) strong entity

Dependent (name,sex,birth_date,relationship) weak entity

2. Find out the relationships

Supervision

Works_for

Manages

Works_on

Controls

Dependent_of

3. Describe the ER Diagram in words

In the following ER diagram we have four entities

Employee,department,Project and Dependent

- Employee Works_For Department:- One employee works_for one department at the same time one department has many employee
M:1
- Employee Manages Department:- one employee manages one department at the same time one department has manages one employee 1:1
- Employee Works_On Project:- many employee work on many project at the same time many project has work on many employee
M:N

- Project Controls Department:- one project control one department at the same time one department has control many project m:1
- Depente Depence_OF Employee:- one Depente Depence_OF one employee at the same time one Employee has many Depence 1:m
- Employee Supervision Employee:- one employee Supervision one employee at the same time one employee Supervision many employe 1:1