

## 1. Find out the entity type

EMPLOYEE(<u>Ssn</u>, Name, Salary,Bdate,Address,Sex) - strong entity PROJECT(Name,Number,Location)- strong entity DEPENDENTS(Name,Birth\_date,Sex, Relationship) -WeakEntity DEPARTMENT(Name, Number, Locations)

## 2. Find out the relationships

EMPLOYEE TO EMPLOYEE - ONE TO ONE EMPLOYEE TO DEPARTMENT - MANY TO ONE DEPARTMENT TO EMPLOYEE - ONE TO ONE

## DEPARTMENT TO PROJECT - ONE TO MANY EMPLOYEE TO PROJECT - MANY TO MANY EMPLOYEE TO DEPENDENT - ONE TO MANY

## 3. Describe the ER Diagram in words.

This is a system of a company between employees ,project and their departments.

There are 3 strong entity and a weak entity that is DEPENDANT

Employee has a primary key that is Ssn and name is composite attribute.

DEPArtment entity has the composite key and mutivalue off location and it has detrived attribute number of employees

Project entity has project name ,number and location

Dependant is weak entity and it's has name and other 3 attributes .

A realationship, name departments of that is the weak relationship is use to connect strong entity and the weak entity.

Employee with works on relationship full of participation with Project (many to many) An employee become a supervisor and supervise the whole employees. Full employees participate and seperated for the department wise (many to one)

Employee manage department the manage relation has a discriptive attribute of start date