1..Find out the entity type

- Project(Name , <u>Ssn</u> , Address, Bdate, Salary, Sex) -Strong Entity
- Department(<u>Name</u>, Number, locations)-Strong Entity
- Employee(<u>Name</u> , <u>Number</u>, Location) -Strong Entity
- Dependent(Name, Sex,Birth_date, Relationship)

2..Find out the relationships

1. Work for   : Employe work for department -one to many
2. Manages   : Department manages employee-one to one
3. Controls   : Department control project-one to many
4. Work-on   : Employee work on project-many to many
5. Dependent-on : Employee depend-on depend -one to many

3.Describe the ER Diagram in words
Many Employees works - one department
 -- Department has 4 data
 Name and Number are unique datas identify a department
 Locations : It has different other datas
                A department can different locations
 No.of. Employees : It taken from employee data

  -- Employee has 6 data
   Address, salary, Bdate,Sex
   Name - Fname, Lname, Minit
   Ssn is specific data to identify a student

Employee manages a departments
        -- All department managed by employees (1 department managed by employee)
        -- It also has a data of when the employee started working in that department

Employee works on Project
        -- Project has 3 data
            Name and Number are specific data which unifies the project
             Project has different locations

      More than 2 employees can work on project
      Employees project is based on hour count

A department controls many project
        -- All projects controlled by department

An Employee Dependents of many Dependent
        -- Dependent has 4 datas
           Name, Sex, Birth_date & relationship are not specific data

An Employee supervise many employees.
        -- The high level employee of an organization can supervise the lower level employees
using their position