1.Find out the entity type
Employee(<u>Ssn</u>, Bdate, Name, Address, Salarry, Sex)
Department(Name, Number, Location)
Project(Name, Number, Location)
Dependent(Name, Sex, Birth_date , Relationships)

2.Find out the relationships
Employee works for Department
Employee manage Department
Employee works on Project
Employee dependents of dependent
Department controls the project
Employee supervision

3.Describe the ER Diagram in words
1.Employee works for Department

     Many employee can work in one department
     One employee can only work in one department
     All employees must work in one department
     In every department, At least one employee must work
     Employee can have ssv, name, Bdate, address, Sex, Salary
     Employee can identify by ssn
     Name can be divisible as Fname, Minit, Lname
     Department has Location, Name, Number and Number of employees
     Department can be identified by name and number
     Location has multivalued
     Number of employees can be taken form name

2. Employee manage Department

     One employee can only manage on one department
     Every department must managed by one employee
     Management no need for all employees
     Manages has start date

3. Employee works on Project

     All employees can works on many projects
     In project, many employees can work
     All employees must work on projects
     In all projects, employees must work
     Hours can be identified from works_on
     Project has Name, Number, Location
     Project can identified by from Name and Number

4.Employees dependents_of Dependent

Many employee has able many dependent
One dependent only dependent on one employee.
All employee no need to have dependent but every dependent must dependent on
 one employee.
Dependent has Name, Sex, Bdate, Relationships

5. Departments controls projects

One department can control many project
One project can only control by one department
All departments no need to control all projects
All projects must control by one department

6. Employee supervisions

One employee can be supervisor many employee
One employee can supervise by one employee.