1. Find out the entity type

Employee (<u>ssn</u>,fname,minit,lname,Bdate,address,salary,sex) - Strong entity Department (<u>name,number</u>,locations) - Strong entity Project (<u>name,number</u>,locations) - Strong entity and partial entinity Dependent (<u>name,sex,birth</u> date,relationship) - Weak entity

2. Find out the relationships

Works_for
Manages
Controls
Supervision
Dependents_of
Works_on

3.Describe the ER Diagram in words

- Employee is strong entity it's have ssn,name,address,salary and sex attributes. Ssn is primary key. Name is composite attribute it's have fname,minit and Iname values.
- Department entility have name, number and location attributes. Locations is multivalue attribute
- 1 Supervisor is supervisee many employee.
 - 1 employee supervisee by 1 supervisor.
- 1 employee work for 1 department
 - 1 department have many employee
- 1 employee manage 1 department
 - 1 department manage 1 employee
- 1 department controls many project
 - 1 project controls by 1 department
- 1 employee works on many project
 - 1 project have many employee
- 1 employee depends of many dependent
 - 1 dependent have 1 employee