ER Diagram Exercise1

1. Find out the entity type

- employee
- department
- project
- dependent

2. Find out the relationships

- Many to one (Employee to department)
- one to one(Employee to Employee)
- one to many (Department to project) (Employee to department) (Employee to Employee)
- many to many (Employee to project)
- Work for (Binary relationship)
- Manages (Binary relationship)
- Works on (Binary relationship)
- Controls (Binary relationship)
- Dependent of (Weak Relationship)

3. Describe the ER Diagram in words

- 1. Many Employees work in One Department
 - 1. Employee has
 - 1. ssn primary key
 - 2. name composite attributes
 - 1. fname simple attribute
 - 2. minit simple attribute
 - 3. Iname simple attribute
 - 3. Bdate
 - 4. Address
 - 5. Salary
 - 6. Sex
 - 2. Employee Entity has a recursive relationship
 - 1. One Employee supervises Many Employee
 - 3. Department has
 - 1. Name Primary Key
 - 2. Locations Multivalued Key
 - 3. Number Candidate key
 - 4. Number of employee Derived Key (depends on the employees)
- 2. One Employee manages One Department

- 1. Start Date Relationship attribute
- 3. Many Employees work on Many Projects
 - 1. Hours Relationship attribute
 - 2. Project Entity has
 - 1. Name Candidate key
 - 2. Number Primary key
- 3. Location
- 4. Many Dependents Dependent on One Employee
 - 1. Dependent is a weak entity and has a weak relationship with Employee
 - 1. Name Primary key
 - 2. Sex
 - 3. Birth date
 - 4. Relationship
- 5. One Department Control Many Projects