

Entity Types

1. Entities
 1. Employee
 2. Department
 3. Project
 4. **Dependent (Weak Entity)**
 5. Supervision (**Associative Entity**)
2. Relationship
 1. Work for (Binary relationship)
 2. Manages (Binary relationship)
 3. Works on (Binary relationship)
 4. Controls (Binary relationship)
 5. Dependent of (**Weak Relationship**)
 6. Supervision (**Unary/ Recursive Relationship**)
3. Describe the Diagram
 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. lname – 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