

1. Find out the entity type

- {strong entity} Employee (Bdate, Name, Ssn, Sex, Salary, Address)
- {strong entity} Department(Name, Location, Number)
- {strong entity} Project(Location, Name, Number)
- {weak entity} Dependent(Name, ,Sex, Birth_date, Relationship)

2. Find out the relationships

- Employee Works for Department many - one {weak relationship}
- Department Manages Employee one - one {strong relationship}
- Department Controls Project one - one {strong relationship}
- Project Control Department many - one {weak relationship}
- Employee Works_on Project one - one {strong relationship}
- The project to Employee one - many {weak relationship}
- Employee Dependents_of Dependent one -one {strong relationship}
- Dependent to Employee many -one {weak relationship}

3. Describe the ER Diagram in words

- In Employee entity have many attributes such as Bdate, Name, Ssn, Sex, Salary, Address, The employee works for the Department. Total participation
- the department has attributes are Name, Location, Number, the Department Controls Project. part participation
- The project has attributes are Location, Name, Number. Employees work on Project. Total participation
- The dependent has attributes are Name, Sex, Birth_date, Relationship. Employee Dependents_of Dependent part participation