

1. Find out the entity type

EMPLOYEE(name(Fname,Lname,minit),Bdate,Ssn,Address,Sex,Salary): Strong Entity.

DEPARTMENT(name,number,Locations):Strong Entity

PROJECT(Name,Number,Locations):Strong Entity

DEPENDENT(Name,Sex,Birth_Date,Relationship):Weak Entity

2. Find out the relationships

SUPERVISION

DEPENDANTS_ON : Weak Relationship

WORKS_FOR

CONTROLS

MANAGES

3. Describe the ER Diagram in words

There are four entities in this diagram and five relationships are in this diagram. In the employee entity one employee can supervise the employees, and employees can supervise one employee. So this relationship is one to many. And the next relationship between employee and department. It has a one to many relationship. One employee can work one department but one department has many employees. Next relationships between employee and projects. This is a many to many relationship. One employee works on many projects and many employees are working on a project. Location attribute is a multivalued attribute. start_date, hours attributes are descriptive attribute. name attribute is a composite attribute. Ssn, number attributes are primary keys. Dependant is a weak entity.