

1. Find out the entity type?

EMPLOYEE(Name,Bdate,Address,Sex,Salary,Ssan)

DEPARTMENT(Name,Number,Locations)

PROJECT(Name,Number,Locations)

Weak entity DEPENDENT(Number,Sex,Birth_date,Relationship)

2. Find out the relationships?

Weak relationship WORKS FOR

CONTROL

MANAGES

WORKS_ON

SUPERVISION

Weak relationship DEPENDENTS_OF

3. Describe the ER Diagram in words?

There are four Entity set in the Department. There are Employee, Department, Project, Dependent. Employee to Department relationship is Works for. This is a many to One relationship. and this is a weak data follow . Employee Attributes are Name, Bdate, Address, Sex, Salary, Ssan. The Name Multivalued Attributes are Minit, Fname, Lname. The Department Attributes are Name, Number, Locations. The primary keys are Name, Number. The Multivalued Attributes is Locations. Employee to Department relationship is Manages. The manage Attribute is Start date. This is a One to One relationship. The Derived Attribute is Number of employee. The manages to department for total participation . The department to project relationship is controls. This is a one to many relationship. The project Attributes are Name, Number, Locations. The primary Keys are Name, Number. The Employee to project relationship is works on. This is a many to many relationship. The employee to project for total participation. Employee to Employee relationship is Supervision. This is a one to many relationship. Employee to Dependent relationship is Dependent of. The dependent Attributes are Number, Sex, Birth_date, Relationship. This is a one to many relationship.