

1. Find out the entity type

1. employee
2. Department
3. project
4. dependent(Weak Entity)
5. Supervision(Associative Entity)

2. Find out the relationships

1. WORKS\_FOR(Binary relationship)
2. CONTROL(Binary relationship)
3. MANGES(Binary relationship)
4. WORKS ON(Binary relationship)
5. Dependent of (Weak Relationship)
6. Supervision (Unary/ Recursive 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. 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

. 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