



1. Find out the entity type

EMPLOYEE (Name, Bdate, Address, Ssn, Salary, Sex) - Strong Entity

DEPENDENT (Name, Sex, Birth\_date, Relationship) - Weak Entity

PROJECT (Name, Number, Location) - Strong Entity

DEPARTMENT (Name, Number, Location) - Strong Entity

2. Find out the relationships

WORKS\_ON

DEPENDENTS\_OF

SUPERVISION

MANAGES

WORKS\_FOR

CONTROLS

### 3. Describe the ER Diagram in words

This is a basic ER Diagram of an office management. Employee, Dependent, Project, Department are the entities of this diagram, but Dependant is a weak entity. Employee has Name, Bdate, Address, Ssn, Salary, Sex as it's attributes, like vise Dependant (Name, Sex, Birth\_date, Relationship), Project (Name, Number, Location) - Strong Entity, Department (Name, Number, Location) are entity attributes. Relationships Works\_for and Manages connect entities Employee and Department. Relationship Works\_on connects entities Employee and Project. Relationship Controls connects entities Department and Project. Relationship Supervision connects entity Employee. Relationship Dependent\_of connects entities Employee and Dependant. Dependants\_of is a weak relationship. Name is composite attribute. Locations is a multi value attribute. Number\_of\_employees is a derived attribute. Ssn in Employee, Name and Number in Department and Name and Number in Project are key attributes.