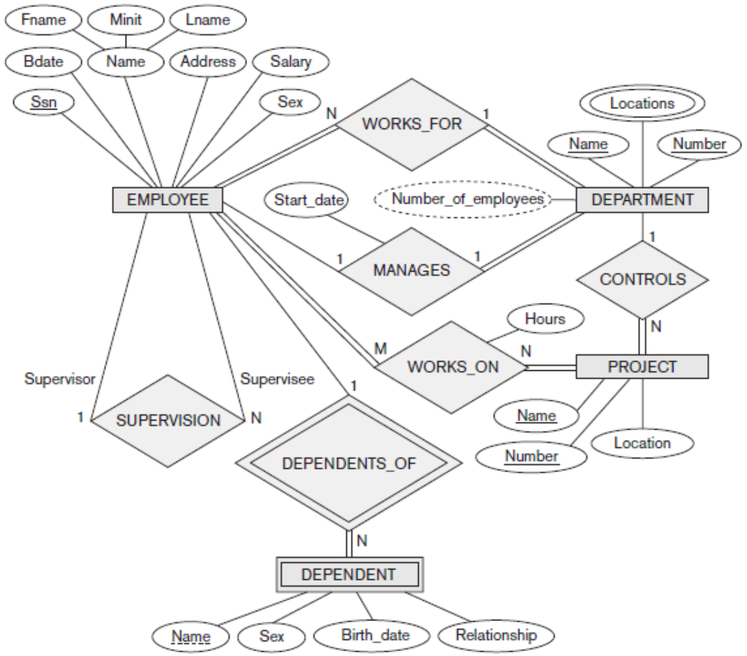
Conceptual Model



Logical / Implementation Model

Step 1 - Strong Entity Types

EMPLOYEE

Ssn	FName	MInit	LName	Address	Salary	BDate	Sex	Department

DEPARTMENT

Number	Name	ManagerSsn	StartDate

DEPENDENT

Name	Sex	BirthDate	Relationship	Ssn

PROJECT

Number	Name	Location

Step 2 - Weak Entity Types

Foreign Key Approach (Step 3)

Step 3 - Binary 1:1 Relationship Types

Cross Referenced Relation Approach (Step 3)

MANAGES

Ssn	DeptNumber	StartDate

(We didn't take this approach Foreign Key Preferred*)

Step 4 - 1:N Relationship Types

Preferred Approach - Foreign Key Approach (Step 3)

WORKS_FOR

EmployeeSsn	DepartmentNumber

Cross Referenced Relation Approach (We didn't take this approach)

Step 5 - Binary M:N Relationship types

Cross Referenced Relation

WORKS_ON