Step1:

Department

Employee

Project

Dependent

Works on

Manage

Step2

Department 1..1 employ 4..\* Employee

Employee 1..1 manages 0..1 department

Employee 0..\* supervise 0..1 employee

Department 1..1 control 0..\* project

Project 0..\* works on 1..\* employee

Employee 1..1 has 0..\* dependent

Department (deptNumber, deptName, phoneNumber)

Primary key: deptNumber

Foreign key PPS references employee (PPS)

Employee (PPS, name, address, salary, dateOfBirth)

Primary key: PPS

Foreign key deptNumber references Department(deptNumber)

Foreign key PPS references Employee (PPS)

Project (projectCode, projTitle, budget)

Primary key: projectCode

Foreign key deptNumber references department(deptNumber)

Dependent (fName, dateOfBirth, relationship)

Primary key: PPS, fName

Foreign key PPS references Employee (PPS)

Works on (PPS, projectCode, hours)

Primary key: PPS, projectCode

Foreign key PPS references employee (PPS)

Foreign key projectCode references project(projectCode)

Manages (deptNumber, PPS, startDate)

Primary key: deptNumber, PPS

Foreign key deptNumber references Department(deptNumber)

Foreign key PPS references employee (PPS)