



1. Find out the entity type

Employee
Department
Project
Dependent

2. Find out the relationships

Department controls project
Employee works on project
Department manages employee
Employee works for department
Supervisor supervise supervisee

3. Describe the ER Diagram in words

There is a Department structure

There are 3 entity classes and 1 weak entity class which are Department, Project, Employee and the weak entity is Dependent.

The department has name, number, locations and the number of employees. Name and number are the key attributes. Number of employees is the derived attribute. And the locations is the multivalued attribute.

The employee has first name, last name, address, date of birth, name, salary, sex and employee ID. employee ID is the key attribute.

The project has name, number and location. Name and the number is key attribute.

The dependent weak entity has name, sex, birthdate and the relationship. Name is the partial attribute.

The department controls these projects, the employees work on these projects, employees work for the department. department manages employee with their start date attribute. Employees work on projects with hours attribute. A Supervisor supervises supervisee from the employee. And an employee depends on with identifying relationship type their dependent.