

CSC 675 Project Phase 1

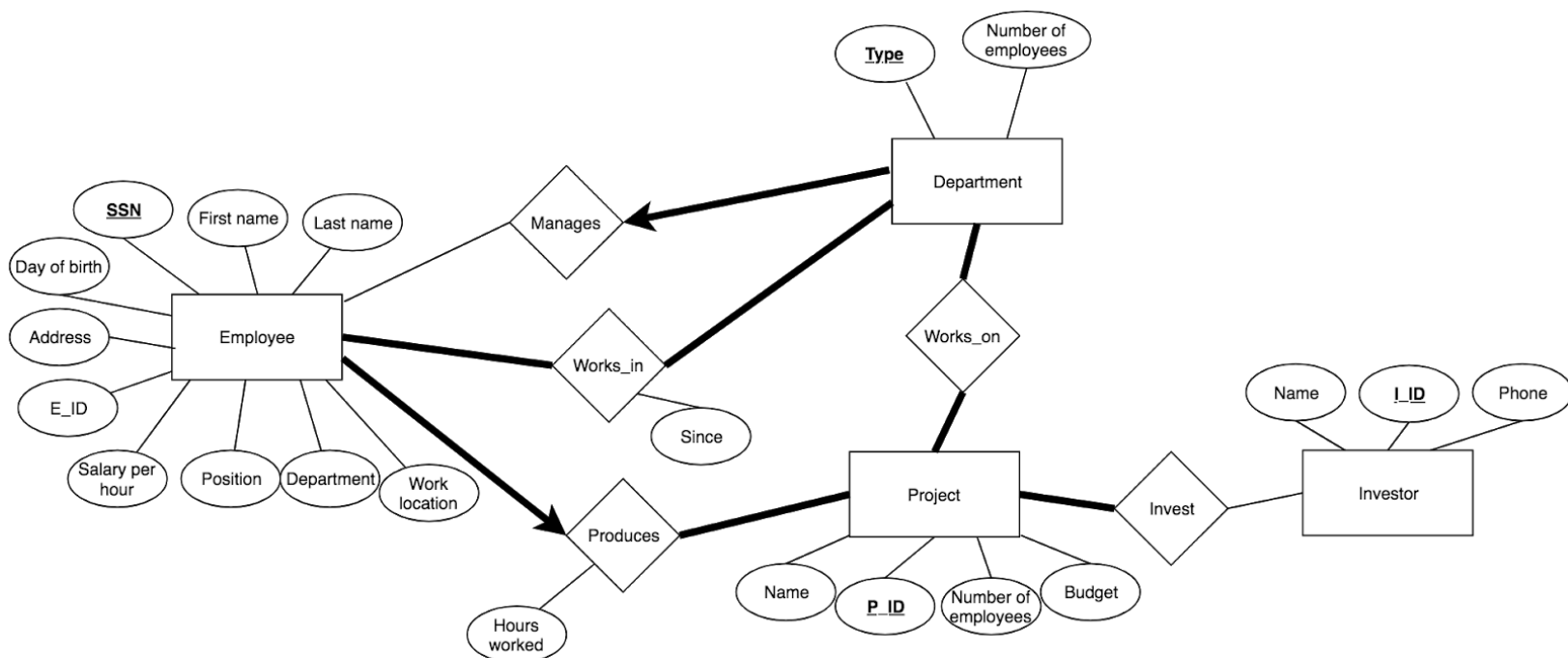
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Description: This is a database for a research institute.

- Every employee has a unique SSN, first name, last name, Date of birth, address, ID #, salary/hour, position, department, and location.
- Every department has a unique type, and number of employee.
- Every project has a unique ID #, name, number of employees, and budget.
- Every Investor has a unique ID #, phone #, and name.
- Each department has one & only one manager.
- Each department works on at least one project.
- Each employee produces at most one project.
- Each investor invests at least one project.
- Each employee work in only one department.
- Each project has at least one investor.

ER diagram:



Relation Schema:

Employee (SSN: integer, FirstName: string, LastName: string, DayOfBirth: string, Address: string, E_ID: integer, SalaryPerHour: integer, Position: string, Department: string, WorkLocation: string)

Department (Type: string, NumberOfEmployees: integer)

Project (P_ID: integer, Name: string, NumberOfEmployees: integer, Budget: integer)

Investor (I_ID: integer, Name: string, Phone: integer)

Manages (SSN: integer, Type: string)

Works_in (SSN: integer, Type: string, Since: string)

Produces (SSN: integer, P_ID: integer, HoursWorked: integer)

Works_on (Type: string, P_ID: integer)

Invest (I_ID: integer, P_ID: integer)

Logical Schema:

