ASSUMPTIONS

- Employees with the same first and last name can exist
- An employee can be a part of more than one department
- An employee can have many email addresses
- An employee can have many phone numbers

FUNCTIONAL DEPENDENCIES

EmployeeNumber -> EmployeeName, Department, EmailAddress, Phone
EmployeeName -> [NULL]
Department -> [NULL]
EmailAddress -> EmployeeNumber
Phone -> EmployeeNumber

DepartmentCode -> DepartmentName
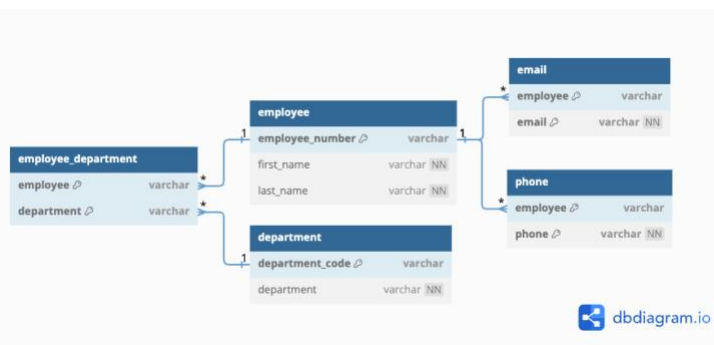DepartmentName -> DepartmentCode

SCHEMA

department (*[pk] department_code*, department)

employee(*[pk] employee_number*, first_name, last_name)

employee_department([fk -> employee.employee_number] employee, [fk ->
department.department_code] department)
[pk] (employee, department)

email([fk -> employee.employee_number] employee, email)
[pk] (employee, email)

phone([fk -> employee.employee_number] employee, phone)
[pk] (employee, phone)

General Schema