

Database Structure

This project uses a mysql relational database schema with two main tables: `department` and `employee`.

Tables

1. Department

- `id`: BIGINT (Primary Key)
- `name`: VARCHAR(255)
- `created_date`: DATE
- `department_head_id`: BIGINT (Foreign Key to `employee.id`, Unique)

2. Employee

- `id`: BIGINT (Primary Key)
- `name`: VARCHAR(255)
- `date_of_birth`: DATE
- `salary`: DOUBLE
- `department_id`: BIGINT (Foreign Key to `department.id`)
- `address`: VARCHAR(255)
- `role`: VARCHAR(255)
- `joining_date`: DATE
- `yearly_bonus_percentage`: DOUBLE
- `reporting_manager_id`: BIGINT (Self-referencing Foreign Key to `employee.id`)

Relationships

- Each **department** has **one department head** (`department_head_id`)

- Each *employee* belongs to *one department* (`department_id`)
- Each *employee* will report to another employee (`reporting_manager_id`)
(exception :Only the employee with the role CEO does not report to anyone.)