

--Database script to create tables

-- Step 1: Create employee and department

```
CREATE TABLE employee (  
    id BIGINT NOT NULL AUTO_INCREMENT,  
    name VARCHAR(255),  
    date_of_birth DATE,  
    salary DOUBLE,  
    department_id BIGINT,  
    address VARCHAR(255),  
    role VARCHAR(255),  
    joining_date DATE,  
    yearly_bonus_percentage DOUBLE,  
    reporting_manager_id BIGINT,  
    PRIMARY KEY (id)  
);
```

```
CREATE TABLE department (  
    id BIGINT NOT NULL AUTO_INCREMENT,  
    name VARCHAR(255),  
    created_date DATE,  
    department_head_id BIGINT,  
    PRIMARY KEY (id),  
    UNIQUE KEY (department_head_id)  
);
```

-- Step 2: Add the foreign keys ****after**** both tables are created

```
ALTER TABLE employee  
    ADD CONSTRAINT fk_employee_department  
    FOREIGN KEY (department_id) REFERENCES department(id);
```

```
ALTER TABLE employee  
    ADD CONSTRAINT fk_employee_manager  
    FOREIGN KEY (reporting_manager_id) REFERENCES employee(id);
```

```
ALTER TABLE department
```

```
ADD CONSTRAINT fk_department_head  
FOREIGN KEY (department_head_id) REFERENCES employee(id);
```