

## Data Modeling

### Departments

rel Departments

--

dept\_name varchar

dept\_no varchar pk

### Department\_Employee

rel Department\_Employee

---

emp\_no int pk fk -< Employees.emp\_no

#compose key

dept\_no varchar fk -< Departments

### Department\_Manager

rel Department\_Manager

---

emp\_no int pk fk >-< Employees.emp\_no

dept\_no varchar fk - Departments.dept\_no

#compse key

### Employees

rel Employees

----

emp\_no int pk

emp\_title\_id varchar fk -< Titles.title\_id

birth\_date date

first\_name varchar

last\_name varchar

sex varchar

hire\_date date

### Salaries

rel Salaries

---

emp\_no int pk fk >-< Employees.emp\_no

salary int

### Titles

rel Titles

---

title\_id varchar pk  
title varchar

-- Exported from QuickDBD: <https://www.quickdatabasediagrams.com/>  
-- Link to schema: <https://app.quickdatabasediagrams.com/#/d/0ywyb6>  
-- NOTE! If you have used non-SQL datatypes in your design, you will have to change these here.

```
CREATE TABLE "Departments" (  
    "dept_no" varchar NOT NULL,  
    "dept_name" varchar NOT NULL,  
    CONSTRAINT "pk_Departments" PRIMARY KEY (  
        "dept_no"  
    )  
);
```

```
CREATE TABLE "Department_Employee" (  
    "emp_no" int NOT NULL,  
  
    "dept_no" varchar NOT NULL,  
    CONSTRAINT "pk_Department_Employee" PRIMARY KEY (  
        "emp_no","dept_no"  
    )  
);
```

```
CREATE TABLE "Department_Manager" (  
    "dept_no" varchar NOT NULL,  
    "emp_no" int NOT NULL,  
    CONSTRAINT "pk_Department_Manager" PRIMARY KEY (  
        "emp_no","dept_no"  
    )  
);
```

```
CREATE TABLE "Employees" (  
    "emp_no" int NOT NULL,  
    "emp_title_id" varchar NOT NULL,  
    "birth_date" date NOT NULL,  
    "first_name" varchar NOT NULL,  
    "last_name" varchar NOT NULL,  
    "sex" varchar NOT NULL,
```

```
    "hire_date" date NOT NULL,  
    CONSTRAINT "pk_Employees" PRIMARY KEY (  
        "emp_no"  
    )  
);
```

```
CREATE TABLE "Salaries" (  
    "emp_no" int NOT NULL,  
    "salary" int NOT NULL,  
    CONSTRAINT "pk_Salaries" PRIMARY KEY (  
        "emp_no"  
    )  
);
```

```
CREATE TABLE "Titles" (  
    "title_id" varchar NOT NULL,  
    "title" varchar NOT NULL,  
    CONSTRAINT "pk_Titles" PRIMARY KEY (  
        "title_id"  
    )  
);
```

```
ALTER TABLE "Department_Employee" ADD CONSTRAINT  
"fk_Department_Employee_emp_no" FOREIGN KEY("emp_no")  
REFERENCES "Employees" ("emp_no");
```

```
ALTER TABLE "Department_Employee" ADD CONSTRAINT  
"fk_Department_Employee_dept_no" FOREIGN KEY("dept_no")  
REFERENCES "Departments" ("dept_no");
```

```
ALTER TABLE "Department_Manager" ADD CONSTRAINT  
"fk_Department_Manager_emp_no" FOREIGN KEY("emp_no")  
REFERENCES "Employees" ("emp_no");
```

```
ALTER TABLE "Department_Manager" ADD CONSTRAINT  
"fk_Department_Manager_dept_no" FOREIGN KEY("dept_no")  
REFERENCES "Departments" ("dept_no");
```

```
ALTER TABLE "Employees" ADD CONSTRAINT "fk_Employees_emp_title_id"  
FOREIGN KEY("emp_title_id")  
REFERENCES "Titles" ("title_id");
```

```
ALTER TABLE "Salaries" ADD CONSTRAINT "fk_Salaries_emp_no" FOREIGN  
KEY("emp_no")
```

```
REFERENCES "Employees" ("emp_no");  
  
select * from "Department_Manager";
```

yamilethcova/  
**SQL\_challenge**



1 Contributor   0 Issues   0 Stars   0 Forks



**SQL\_challenge/README.md at main · yamilethcova/SQL\_challenge**  
github.com