

Credit Task 5.2.1

Company Relations Database

```
CREATE DATABASE test;
```

```
USE test;
```

```
CREATE TABLE Employee
```

```
(
    emp_id INT(10) UNSIGNED not null,
    emp_fname VARCHAR(30) not null,
    emp_lname VARCHAR(30) not null,
    emp_bdate DATE not null,
    emp_address VARCHAR(255) not null,
    emp_gender CHAR(1) CHECK(emp_gender = 'M' OR emp_gender = 'F' OR
emp_gender = 'U'),
    dept_id INT(10) UNSIGNED not null,
    super_id INT(10) UNSIGNED not null,

    PRIMARY KEY(emp_id),
    FOREIGN KEY(dept_id) REFERENCES Department(dept_id),
    FOREIGN KEY(super_id) REFERENCES Employee(emp_id)
);
```

```
CREATE TABLE Department
```

```
(
    dept_id INT(10) UNSIGNED not null,
    dept_name VARCHAR(40) not null,
    mgr_id INT(10) UNSIGNED not null,
    mgr_start_date DATE not null,

    PRIMARY KEY(dept_id),
    FOREIGN KEY(mgr_id) REFERENCES Employee(emp_id)
);
```

```
CREATE TABLE Project
```

```
(
    proj_id INT(10) UNSIGNED not null,
    proj_name CHAR(40) not null,
    proj_loc CHAR(40) not null,
    dept_id INT(10) UNSIGNED not null,

    PRIMARY KEY(proj_id),
    FOREIGN KEY(dept_id) REFERENCES Department(dept_id)
);
```

```
CREATE TABLE Works_on
```

```
(
    proj_id INT(10) UNSIGNED not null,
    emp_id INT(10) UNSIGNED not null,
    role CHAR(30) not null,
    salary_factor DECIMAL(2,1) not null DEFAULT 0 CHECK(salary_factor >=
0.00),
    hours FLOAT UNSIGNED not null,
    role_comment VARCHAR(255) not null,

    PRIMARY KEY(proj_id, emp_id),
    FOREIGN KEY(proj_id) REFERENCES Project(proj_id),
```

```
    FOREIGN KEY (emp_id) REFERENCES Employee (emp_id)
);

CREATE TABLE Salary
(
    emp_id INT(10) UNSIGNED not null,
    salary DECIMAL(20,4) UNSIGNED not null,
    start_date DATE not null,

    PRIMARY KEY (emp_id, start_date),
    FOREIGN KEY (emp_id) references Employee (emp_id)
);
```