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**,

tmp\_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)

);