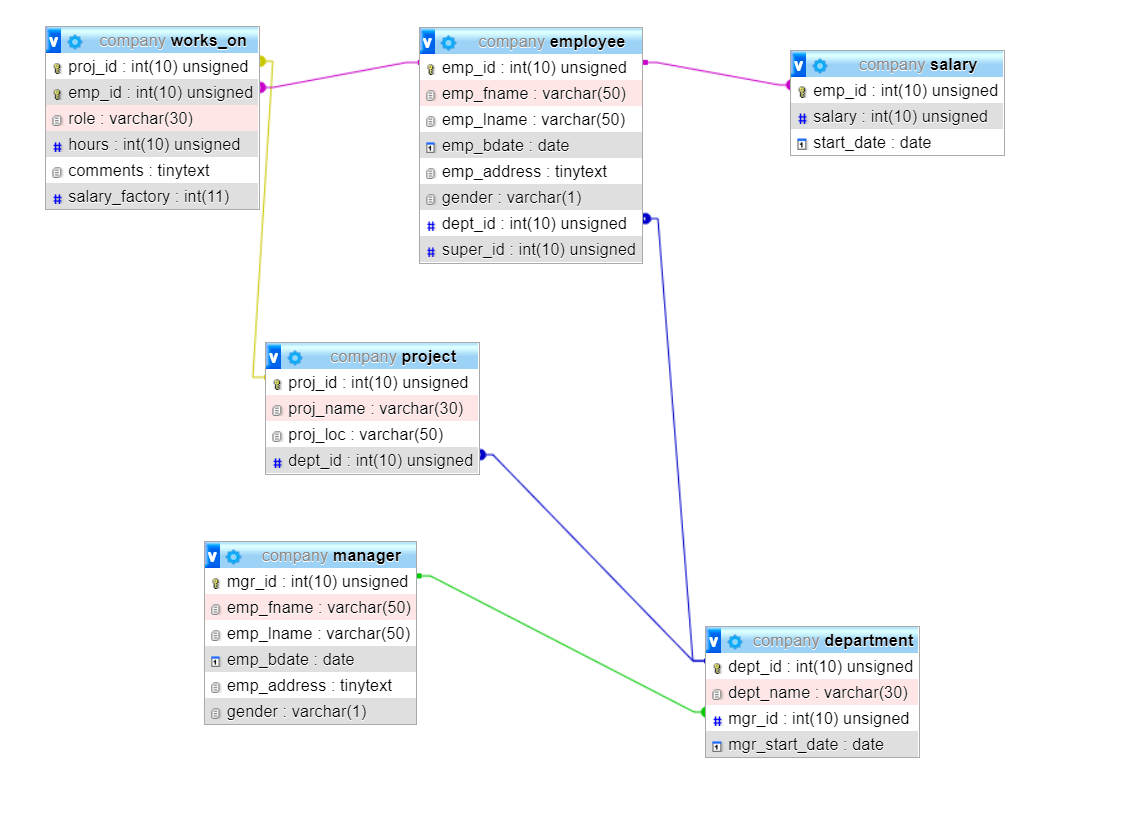
# Task C5.2.1



CREATE TABLE Manager (

mgr\_id INT UNSIGNED NOT NULL,

emp\_fname VARCHAR(50) NOT NULL,

emp\_lname VARCHAR(50) NOT NULL,

emp\_bdate DATE NOT NULL,

emp\_address TINYTEXT NOT NULL,

gender ENUM('M','F','U') CHECK (gender in ('M', 'F', 'U')),

PRIMARY KEY (mgr\_id)

);

* **new manager table to incorporate manager information**

CREATE TABLE Department (

dept\_id INT UNSIGNED NOT NULL,

dept\_name VARCHAR(30) NOT NULL,

mgr\_id INT UNSIGNED NOT NULL,

mgr\_start\_date DATE NOT NULL CHECK (date < CURRDATE()),

PRIMARY KEY (dept\_id),

FOREIGN KEY (mgr\_id) REFERENCES Manager(mgr\_id)

);

CREATE TABLE Employee (

emp\_id INT UNSIGNED NOT NULL,

emp\_fname VARCHAR(50) NOT NULL,

emp\_lname VARCHAR(50) NOT NULL,

emp\_bdate DATE NOT NULL,

emp\_address TINYTEXT NOT NULL,

gender ENUM('M','F','U') CHECK (gender in ('M', 'F', 'U')),

dept\_id INT UNSIGNED NOT NULL,

super\_id INT UNSIGNED NOT NULL,

PRIMARY KEY (emp\_id),

FOREIGN KEY (dept\_id) REFERENCES Department(dept\_id)

);

\*ALTER TABLE employeE MODIFY COLUMN gender ENUM('M','F','U') CHECK (gender in ('M', 'F', 'U'));

CREATE TABLE Project(

proj\_id INT UNSIGNED NOT NULL,

proj\_name VARCHAR(30) NOT NULL,

proj\_loc VARCHAR(50) NOT NULL DEFAULT 'company',

dept\_id INT UNSIGNED NOT NULL,

PRIMARY KEY (proj\_id),

FOREIGN KEY (dept\_id) REFERENCES Department(dept\_id)

);

* **For proj\_loc field, default is company as if no other place project is given.**

CREATE TABLE Works\_on(

proj\_id INT UNSIGNED NOT NULL,

emp\_id INT UNSIGNED NOT NULL,

role VARCHAR(30) NOT NULL,

hours INT UNSIGNED,

comments TINYTEXT,

salary\_factory INT NOT NULL,

PRIMARY KEY (proj\_id, emp\_id),

FOREIGN KEY (proj\_id) REFERENCES Project(proj\_id),

FOREIGN KEY (emp\_id) REFERENCES Employee(emp\_id)

);

* **hours are nullable if employee has worked on voluntary basis and that doesn’t count towards his working hours or for some reason employee is not able to be in project right after joining so hours will be null.**
* **Some roles are self-explanatory so there is no need for comment.**

CREATE TABLE Salary(

emp\_id INT UNSIGNED NOT NULL,

salary INT UNSIGNED NOT NULL,

start\_date DATE NOT NULL,

PRIMARY KEY (emp\_id),

FOREIGN KEY (emp\_id) REFERENCES Employee(emp\_id)

);