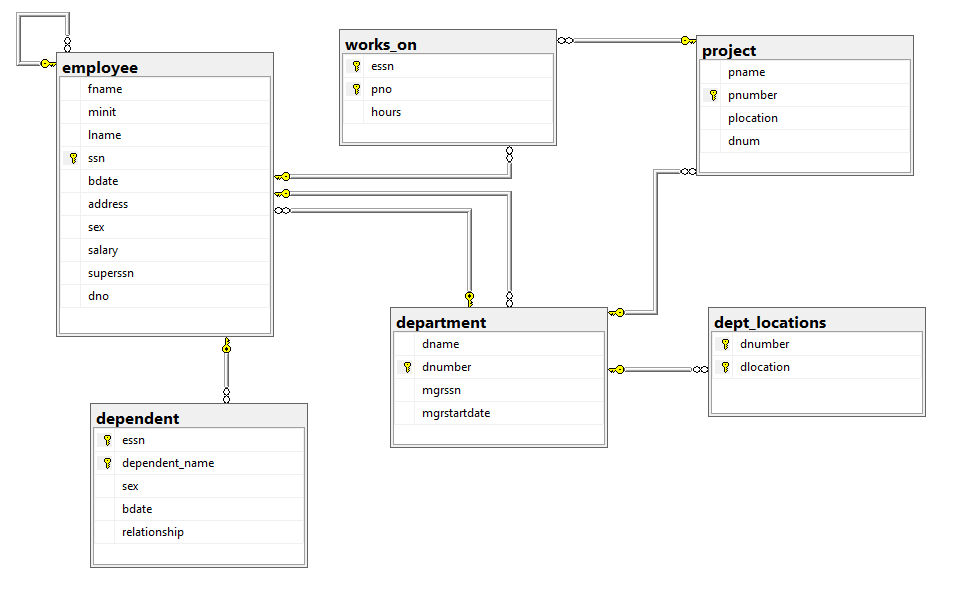
**Student Name: Lillian Sones**

SQL Final Course Project

For this project, you will create a database called Company. To get started, do the following:

* 1. Create the Company database and its tables
  2. [Populate the tables in the Company database by running this script](https://prcc0-my.sharepoint.com/:u:/g/personal/spreston_prcc_edu/EXPrqcXque5FtHATCQfLC5sBWvwHBSj1DnJe95ej1Mm6WQ?e=kzlzQm)

The following is a diagram representing the tables in the Company database and how the tables are related.



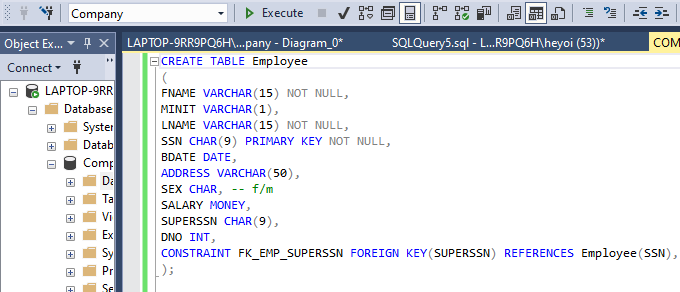
# Instructions

## Update this file to include the following:

1. Screenshot of the database and tables in SQL Server (20 points)
2. Screenshots of the SQL script and the output of the scripts. **Please size your output to include just the script and the results**. It is possible to accomplish this in Word. Make sure all columns in your output results have a name. (4 points for each pair of SQL script and output = 100 total possible points)
3. Submit this file updated with all required screenshots as described above. Make sure your name is included.

Scripts and Tables

Employee



(After running all of these tables I ran this code to make a constraint that was having an error)

Graphical user interface, text

Description automatically generated with medium confidence

Table

Description automatically generated

Text

Description automatically generated with medium confidence

Dependent

Text

Description automatically generated

Table

Description automatically generated with medium confidence

Department

Graphical user interface, text

Description automatically generated

Table

Description automatically generated

Works\_on

Text, letter

Description automatically generated

Table

Description automatically generated with medium confidenceTable

Description automatically generated with medium confidence



Dept\_location

Graphical user interface, text, application

Description automatically generated

Table

Description automatically generated

Project

Graphical user interface, text, application, email

Description automatically generated

Table

Description automatically generated

DATABASE DIAGRAM

Diagram

Description automatically generated

## Write SQL statements to accomplish the following.

1. Select and display the birthdate and address of the employee(s) whose name is John B. Smith

*Insert screenshots of SQL statement and results here*

1. Select and display the name and address of all employees who work for the Research department.

*Insert screenshots of SQL statement and results here*

1. For every project located in Stafford, list the project number, the controlling department number, and the department manager's last name, address, and birthdate.

*Insert screenshots of SQL statement and results here*

1. Select and display the names of each employee who works in all projects controlled by department 5

*Insert screenshots of SQL statement and results here*

1. Make a list of all project numbers for projects that involve an employee whose last name is Smith either as a worker or as a manager of the department that controls the project.

*Insert screenshots of SQL statement and results here*

1. Select and display the names of all employees who have two or more dependents.

*Insert screenshots of SQL statement and results here*

1. Select and display the names of employees who have no dependents.

*Insert screenshots of SQL statement and results here*

1. List the names of managers who have at least one dependent.

*Insert screenshots of SQL statement and results here*

1. For each employee, select and display the employee's first and last name and the first and last name of his or her immediate supervisor

*Insert screenshots of SQL statement and results here*

1. Select and display the distinct salary values

*Insert screenshots of SQL statement and results here*

1. Show the resulting salaries if every employee working on the ProductX project is given a 10% raise.

*Insert screenshots of SQL statement and results here*

1. Select and display all employees in department 5 whose salary is between $30,000 and $40,000

*Insert screenshots of SQL statement and results here*

1. Select and display a list of employees and the projects they are working on, ordered by department and, within each department, ordered alphabetically by last name, first name

*Insert screenshots of SQL statement and results here*

1. Select and display the name of each employee who has a dependent with the same first name and same sex as the employee

*Insert screenshots of SQL statement and results here*

1. Select and display the social security numbers of all employees who work on project numbers 1, 2, or 3.

*Insert screenshots of SQL statement and results here*

1. Find the sum of the salaries of all employees, the maximum salary, the minimum salary, and the average salary.

*Insert screenshots of SQL statement and results here*

1. Find the sum of the salaries of all employees of the Research department, as well as the maximum salary, the minimum salary, and the average salary in this department.

*Insert screenshots of SQL statement and results here*

1. Select and display the total number of employees in the company.

*Insert screenshots of SQL statement and results here*

1. Select and display the total number of employees in the Research department.

*Insert screenshots of SQL statement and results here*

1. Count the number of distinct salary values in the database.

*Insert screenshots of SQL statement and results here*

1. For each department, select and display the department number, the number of employees in the department, and their average salary

*Insert screenshots of SQL statement and results here*

1. For each project, select and display the project number, the project name, and the number of employees who work on that project.

*Insert screenshots of SQL statement and results here*

1. For each project on which more than two employees work, select and display the project number, the project name, and the number of employees who work on the project.

*Insert screenshots of SQL statement and results here*

1. For each project, select and display the project number, the project name, and the number of employees from department 5 who work on the project.

*Insert screenshots of SQL statement and results here*

1. For each department that has more than five employees, select and display the department number and the number of its employees who are making more than $40,000.

*Insert screenshots of SQL statement and results here*