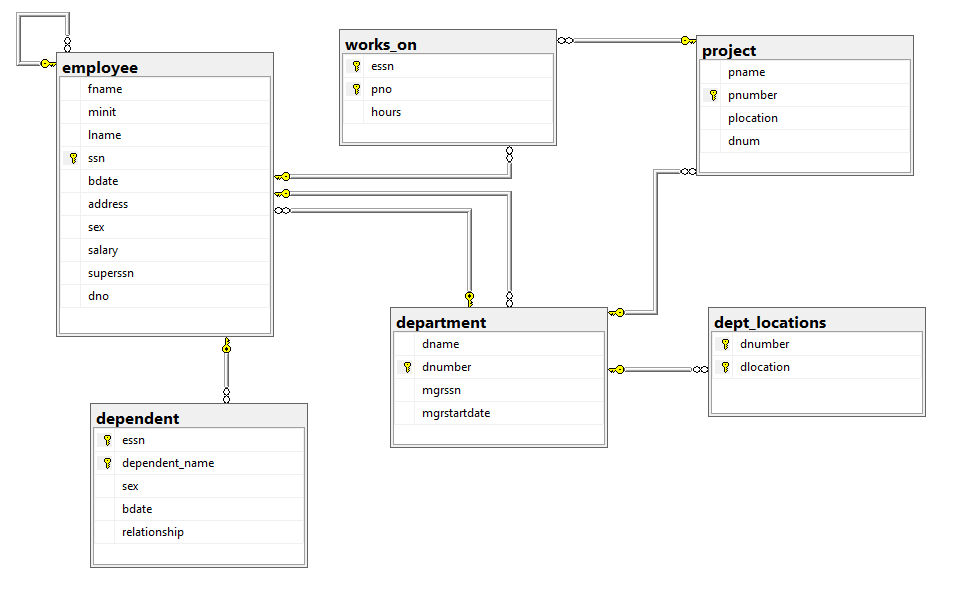
**Student Name: Lillian Sones**

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.



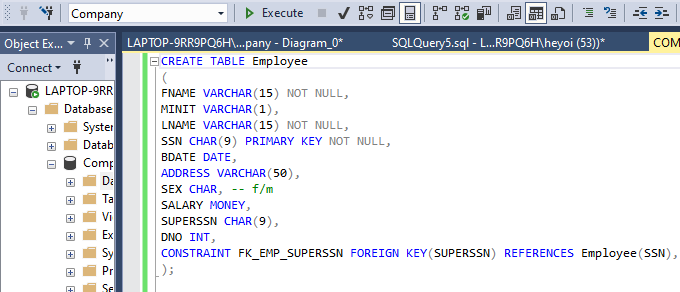
# Instructions

## 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

*Graphical user interface, text, application

Description automatically generated*

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

Graphical user interface, text, application

Description automatically generated

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.

Table

Description automatically generated

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

Table

Description automatically generated

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.

Graphical user interface, text

Description automatically generated

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

Graphical user interface

Description automatically generated with medium confidence

1. Table

   Description automatically generated with low confidenceSelect and display the names of employees who have no dependents.

A picture containing table

Description automatically generated

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

Graphical user interface, application

Description automatically generated

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

*Table

Description automatically generated*

1. Select and display the distinct salary values

Table

Description automatically generatedTable

Description automatically generated with low confidence

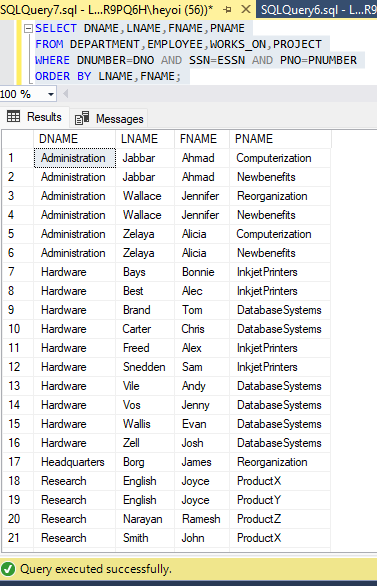
1. Show the resulting salaries if every employee working on the ProductX project is given a 10% raise.

Graphical user interface, text

Description automatically generated with medium confidence

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

Calendar

Description automatically generated with medium confidence

Table

Description automatically generated

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

Graphical user interface, text, application

Description automatically generated

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

Graphical user interface, text, application

Description automatically generated

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

Table

Description automatically generated with medium confidence

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

Graphical user interface, text, application, email

Description automatically generated

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

Graphical user interface, text, application

Description automatically generated

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

Graphical user interface, text, application

Description automatically generated

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

Table

Description automatically generated

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

Table

Description automatically generated with medium confidence

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.

*Table

Description automatically generated with medium confidence*

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.

Graphical user interface

Description automatically generated with medium confidence

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.

*Graphical user interface, text, application, chat or text message

Description automatically generated*