

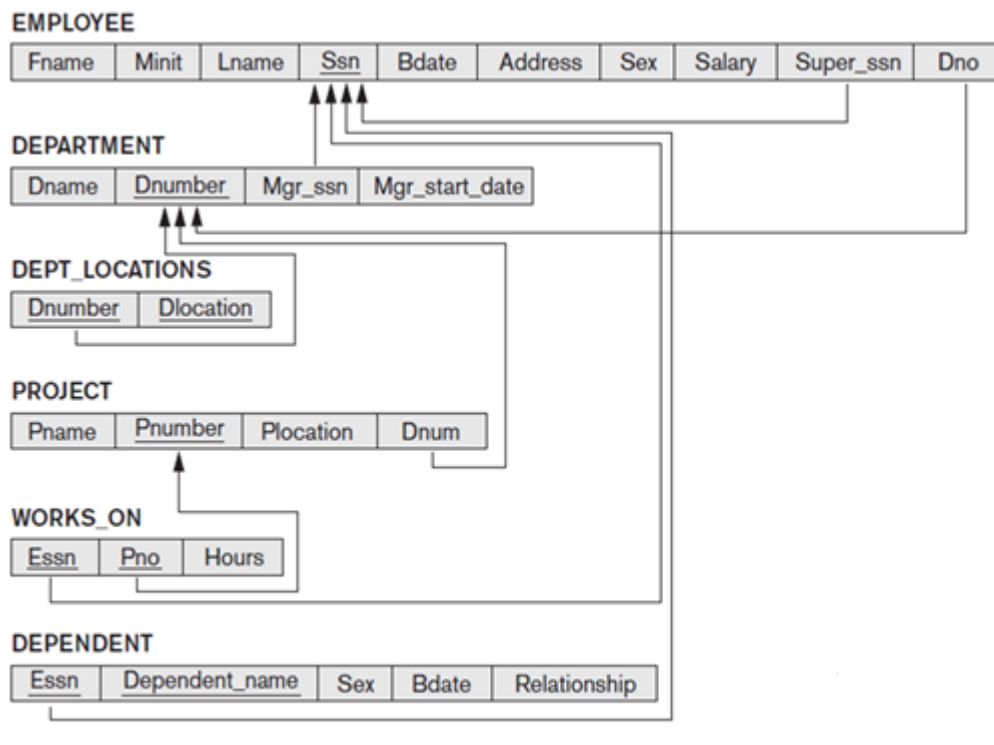
CSC 134-02 Database Management Systems (Spring 2022)

In-class Worksheet 2 (100 points)

Basic SQL

Due at 11:59 pm, Friday, March 4, 2022

Considering the following database schema, answer all the queries.



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

2. Retrieve the name and address of all employees who work for the research department

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

4. Retrieve the names of all employees who have two or more dependents.
Hint: use correlated queries

5. Retrieve the names of all employees who have no dependents.
Hint: use correlated queries

6. Retrieve all employee SSNs

7. Retrieve the salary of every employee
Hint: keep the redundant salary values.

8. Retrieve the distinct salary values

9. Retrieve all employees whose address is in Spring, TX.

10. Retrieve all employees in department 5 whose salary is between \$30,000 and \$40,000.

11. Retrieve a list of employees, ordered alphabetically by last name, first name.

12. Retrieve the social security numbers of all employees who work on project 1, 2 or 3.

13. Retrieve the names of all employees who do not have a supervisor.

14. Find the sum of the salaries of all employees, the max salary, the min salary and the average salary.

15. Find the sum of the salaries of all employees for the research department, as well as the max salary, the min salary and the average salary.

16. Retrieve the total number of employees in the company

17. For each department, retrieve the department number, the number of employees in the department, and their average salary.

18. For each project, retrieve the project number, the project name, and the number of employees who work on the project.

19. For each project on which more than two employees work, retrieve the project number, the project name, and the number of employees who work on the project.

20. Retrieve the name of each employee who has a dependent with the same sex as the employee. Sort the results on employee last name in the descending order.

Deliverables

1. A doc or pdf file containing all your answers.

Requirements on deliverables

1. Your deliverable should be ***FLastname_W2.doc*** or ***FLastname_W2.pdf*** where *F* indicates first letter, in uppercase, of your firstname and *Lastname* indicates your last name where first letter is in uppercase. Please exactly follow the naming rule described above. You will be deducted 5 points for incorrect naming.
2. Clearly state your name, ID, course title, worksheet number, and due date.
3. Submit your doc or pdf file via Canvas.

4. No late submission will be accepted.
5. When grades are returned to you on Canvas, you have 7 days to meet with the instructor for grade changes. Issues and/or disagreements concerning your grade must be resolved in such 7 days window. After 7 days, the grades are written in stone and can't be changed after that point, for whatever reason.