Homework 1 CSCE 5350 Fall 2024

SQL Operations and Queries

Database Description:
employee (employee_name, street, city)
works (employee_name, company_name, salary)
company (company_name, city)
manages (employee_name, manager_name)

1. Write an SQL statement to create the tables for the Employee Database, including the necessary referential-integrity constraints.
2. Insert at least 4 employees into the "employee" table with their respective details (employee_name, street, city). Insert at least 3 tuples into each table.
3. Write an SQL query to retrieve the names of all employees and their associated company names and salaries using an inner join operation.
4. Write an SQL query to delete a company from the "company" table along with its associated data in the "works" table.
5. Write an SQL query to retrieve the names of employees who do not have a company listed in the "works" table using a right outer join operation.
6. Alter the structure of the "employee" table to add a new column called "phone_number" of type VARCHAR(20).
7. Rename the "works" table to "employment" and modify its structure to include an additional column called "start_date" of type DATE.
8. Write an SQL query to count the number of employees in each city using a group by clause and join operations.

Submission:

1. Install MySQL
2. Submit the query for each question, with the result table as a screenshot.
3. **Note**: Plagiarism is strictly enforced, and identical solutions get ZERO marks and no negotiations.