

Company Database Schema

Use the attached Dataset to implement the following requests (queries):

Data Manipulating Language:

1. Insert your personal data to the employee table as a new employee in department number 30, SSN = 102658, Superssn = 445566.
2. Insert another employee with your friend's data as a new employee in department number 80, SSN = 102880, but don't enter any value for salary or supervisor number to him but fill all other fields with dummy data.
3. In the department table insert a new department called "DEPT SW", with id 102, an employee with SSN = 112233 as a manager for this department. The start date for this manager is '1-11-2006'
4. Do what is required if you know that:
Mrs. Noha Mohamed with SSN=968574 moved to be the manager of the new department with ID = 102, and they gave you her position (Dept. 20 manager)
Note: use your SSN from question 1.
 - a. First try to update her record in the department table.
 - b. Update your record to be department 20 manager in both: employee, and department tables.
 - c. Update your friend data (entered in question 2) to be in your teamwork (supervised by you)
5. Unfortunately, the company ended the contract with Mr. Kamel Mohamed (SSN=223344) so try to delete his data from your database in case you know that your friend (SSN entered in question 2) will be in his position.

Hint: (Check if Mr. Kamel has dependents, works as a department manager, supervises any employees, or works on any projects and handle these cases).

6. Your salary has been upgraded by 20 percent of its last value.
Hint: Update your salary in the database itself.

Simple SELECT Queries:

1. Display all the employees' Data.
2. Display the employees' First name, last name, Salary, and Department number.
3. Display all the projects' names, locations, and the department which is responsible for them.
4. If you know that the company policy is to pay an annual commission for each employee with a specific percentage equal to 10% of his/her annual salary. Display each employee's first name and his annual salary as ANNUAL SALARY column, and display also the annual commission as ANNUAL COMM column.

Hint: Just display the required data, don't update the tables.

Hint: Use aliases.

5. Display the employees' Id, name who earns more than 1000 LE monthly.
6. Display the employees' Id, name who earns more than 10000 LE annually.
7. Display the first name, last name and salaries of the female employees.
8. Display each department id, and name which managed by a manager with an id equals 968574.
9. Display the IDs, names, and locations of the projects which are controlled by department 10.

Try to implement these queries:

1. Display the ID, name, and location of the projects in Cairo or Alex city.
2. display all the employees in department 30 whose salary from 1000 to 2000 LE monthly
3. Display the full names and addresses of employees who work on the project named 'AL Solimaniah'.
4. List the names and project details of employees who work more than 20 hours on any project.
5. Display all employees along with their project names, even if they do not work on any projects.
6. Show every department and the name of its manager, including departments without a manager.
7. Display a list of all departments and all employees, including those that do not match (i.e., employees without departments and departments without employees).
8. Generate a list of all possible combinations of project names and employee names.
9. Find pairs of employees who live in the same city.
10. List employees who have the same job title but work in different departments.
11. Classify employees as 'High Salary' if their salary is more than 2000 LE, 'Medium Salary' if it's between 1000 and 2000 LE, and 'Low Salary' if it's under 1000 LE.
12. Assign a risk level to projects based on their location: 'High Risk' for projects in Cairo, 'Medium Risk' for projects in Giza, and 'Low Risk' for projects in Alex.
13. Determine the eligibility for a bonus for each employee where those with a salary greater than 2000 LE get a 15% bonus, and others get a 10% bonus.
14. Display a status of 'Active' for employees who have a supervisor and 'Independent' for those who do not.
15. Create a view to store employee information
16. retrieve all the employees depend on employeeid (use a store procedure)
17. Get all the employees as “Hight Salary” if their salary more than 3000 L.E (use function)
18. use iteration #17 and then when salary greater than 2000 L.E display “Higher salary” else this condition display “Lower Salary”

Good Luck

