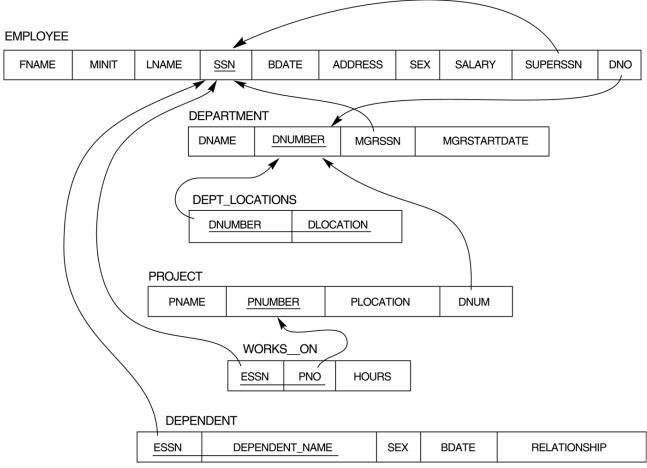
Relational Database Schema - COMPANY



Questions to be performed on above schema

- 1. Create tables with relevant foreign key constraints
- 2. Populate the tables with data
- 3. Perform the following queries on the database :
- 1. Display all the details of all employees working in the company.
- 2. Display ssn, lname, fname, address of employees who work in department no 7.
- 3. Retrieve the birthdate and address of the employee whose name is 'Franklin T. Wong'

- 4. Retrieve the name and salary of every employee
- 5. Retrieve all distinct salary values
- 6. Retrieve all employee names whose address is in 'Bellaire'
- 7. Retrieve all employees who were born during the 1950s
- 8. Retrieve all employees in department 5 whose salary is between 50,000 and 60,000(inclusive)
- 9. Retrieve the names of all employees who do not have supervisors
- 10. Retrieve SSN and department name for all employees
- 11. Retrieve the name and address of all employees who work for the 'Research' department
- 12. For every project located in 'Stafford', list the project number, the controlling department number, and the department manager's last name, address, and birthdate.
- 13. For each employee, retrieve the employee's name, and the name of his or her immediate supervisor.
- 14. Retrieve all combinations of Employee Name and Department Name
- 15. Make a list of all project numbers for projects that involve an employee whose last name is 'Narayan' either as a worker or as a manager of the department that controls the project.
- 16. Increase the salary of all employees working on the 'ProductX' project by 15%. Retrieve employee name and increased salary

- of these employees.
- 17. Retrieve a list of employees and the project name each works in, ordered by the employee's department, and within each department ordered alphabetically by employee first name.
- 18. Select the names of employees whose salary does not match with salary of any employee in department 10.
- 19. Retrieve the name of each employee who has a dependent with the same first name and same sex as the employee.
- 20. Retrieve the employee numbers of all employees who work on project located in Bellaire, Houston, or Stafford.
- 21. Find the sum of the salaries of all employees, the maximum salary, the minimum salary, and the average salary. Display with proper headings.
- 22. Find the sum of the salaries and number of employees of all employees of the 'Marketing' department, as well as the maximum salary, the minimum salary, and the average salary in this department.
- 23. Select the names of employees whose salary is greater than the average salary of all employees in department 10.
- 24. For each department, retrieve the department number, the number of employees in the department, and their average salary.
- 25. For each project, retrieve the project number, the project name, and the number of employees who work on that project.
- 26. Change the location and controlling department number for all projects having more than 5 employees to 'Bellaire' and 6

respectively.

- 27. For each department having more than 10 employees, retrieve the department no, no of employees drawing more than 40,000 as salary.
- 28. Insert a record in Project table which violates referential integrity constraint with respect to Department number. Now remove the violation by making necessary insertion in the Department table.
- 29. Delete all dependents of employee whose ssn is '123456789'.
- 30. Delete an employee from Employee table with ssn = '12345'(make sure that this employee has some dependents, is working on some project, is a manager of some department and is supervising some employees). Check and display the cascading effect on Dependent and Works on table. In Department table MGRSSN should be set to default value and in Employee table SUPERSSN should be set to NULL
- 31. Perform a query using alter command to drop/add field and a constraint in Employee table.