

DBMS LABORATORY

Assignment No. - 2

Create two tables - EMP & DEPT

EMP

| Column name | Data type | Description |
|-------------|-----------|-----------------------|
| EMPNO | Number | Employee number |
| ENAME | Varchar | Employee name |
| JOB | Char | Designation |
| MGR | Number | Manager's Emp. number |
| HIREDATE | Date | Date of joining |
| SAL | Number | Basic Salary |
| COMM | Number | Commission |
| DEPTNO | Number | Department Number |

DEPT

| Column name | Data type | Description |
|-------------|-----------|------------------------|
| DEPTNO | Number | Department number |
| DNAME | Varchar | Department name |
| LOC | Varchar | Location of department |

Data for EMP

| | | | | | | | |
|------|--------|-----------|------|----------|------|------|----|
| 7369 | Smith | Clerk | 7902 | 17/12/80 | 800 | | 20 |
| 7499 | Allen | Salesman | 7698 | 20/2/81 | 1600 | 300 | 30 |
| 7521 | Ward | Salesman | 7698 | 22/2/81 | 1250 | 500 | 30 |
| 7566 | Jones | Manager | 7839 | 2/4/81 | 2975 | | 20 |
| 7654 | Martin | Salesman | 7598 | 28/9/81 | 1250 | 1400 | 30 |
| 7698 | Blake | Manager | 7839 | 1/5/81 | 2850 | | 30 |
| 7782 | Clark | Manager | 7839 | 9/6/81 | 2450 | | 10 |
| 7788 | Scott | Analyst | 7566 | 9/12/82 | 3000 | | 20 |
| 7839 | King | President | | 17/11/81 | 5000 | | 10 |
| 7844 | Turner | Salesman | 7698 | 8/9/81 | 1500 | 0 | 30 |
| 7876 | Adams | Clerk | 7788 | 12/1/83 | 1100 | | 20 |
| 7900 | James | Clerk | 7698 | 3/12/81 | 950 | | 30 |
| 7902 | Ford | Analyst | 7566 | 4/12/81 | 3000 | | 20 |
| 7934 | Miller | Clerk | 7782 | 23/1/82 | 1300 | | 10 |

Data for DEPT table

| | | |
|----|------------|----------|
| 10 | Accounting | New York |
| 20 | Research | Dallas |
| 30 | Sales | Chicago |
| 40 | Operations | Boston |

Perform the following queries on the EMP and DEPT table:

- a) List the names of analysts and salesmen.
- b) List details of employees who have joined before 30 Sep 81.
- c) List names of employees who are not managers.
- d) List the names of employees whose employee numbers are 7369, 7521, 7839, 7934, 7788.
- e) List employees not belonging to department 30, 40, or 10.
- f) List employee names for those who have joined between 30 June and 31 Dec. '81.
- g) List the different designations in the company.
- h) List the names of employees who are not eligible for commission.
- i) List the name and designation of the employee who does not report to anybody.
- j) List the employees not assigned to any department.
- k) List the employees who are eligible for commission.
- l) List employees whose names either start or end with "S".
- m) List names of employees whose names have "i" as the second character.
- n) List the number of employees working with the company.
- o) List the number of designations available in the EMP table.
- p) List the total salaries paid to the employees.
- q) List the maximum, minimum and average salary in the company.
- r) List the maximum salary paid to a salesman.