DBS Labsheet:5

Prof.R Gururaj

Already Created Tables:
1. Dept: dnum int(pk), dname vc(20),dloc vc(10)
2. Emp: eno int (pk), ename vc(15), job(10), mgr int(fk), hiredate date, sal int, comm int, deptno int(FK)

Already Inserted following Data into Dept table:
INSERT INTO dept VALUES (10,'ACCOUNTING','NEW YORK');
INSERT INTO dept VALUES (20,'RESEARCH','DALLAS');
INSERT INTO dept VALUES (30,'SALES','CHICAGO');
INSERT INTO dept VALUES (40,'OPERATIONS','BOSTON');

Already Inserted following Data into Emp table:
INSERT INTO emp VALUES (7369,'SMITH','CLERK',7902,'17-DEC-80',800,NULL,20);
INSERT INTO emp VALUES (7499,'ALLEN','SALESMAN',7698,'20-FEB-81',1600,300,30);
INSERT INTO emp VALUES (7521,'WARD','SALESMAN',7698,'22-FEB-81',1250,500,30);
INSERT INTO emp VALUES (7566,'JONES','MANAGER',7839,'02-APR-81',2975,NULL,20);
INSERT INTO emp VALUES (7654,'MARTIN','SALESMAN',7698,'28-SEP-81',1250,1400,30);
INSERT INTO emp VALUES (7698,'BLAKE','MANAGER',7839,'01-MAY-81',2850,NULL,30);
INSERT INTO emp VALUES (7782,'CLARK','MANAGER',7839,'09-JUN-81',2450,NULL,10);
INSERT INTO emp VALUES (7788,'SCOTT','ANALYST',7566,'19-APR-87',3000,NULL,20);
INSERT INTO emp VALUES (7839,'KING','PRESIDENT',NULL,'17-NOV-81',5000,NULL,10);
INSERT INTO emp VALUES (7844,'TURNER','SALESMAN',7698,'08-SEP-81',1500,0,30);
INSERT INTO emp VALUES (7876,'ADAMS','CLERK',7788,'23-MAY-87',1100,NULL,20);
INSERT INTO emp VALUES (7900,'JAMES','CLERK',7698,'03-DEC-81',950,NULL,30);
INSERT INTO emp VALUES (7902,'FORD','ANALYST',7566,'03-DEC-81',3000,NULL,20);
INSERT INTO emp VALUES (7934,'MILLER','CLERK',7782,'23-JAN-82',1300,NULL,10);

Also inserted the following tuples to DEPT and EMP, in the last session.

1. Add the following two tuples to DEPT-
   (50, 'MARKETING','BOSTON')
   (60,'PRODUCTION', 'SAN FRANCISCO')
2. Add the following tuple to EMP-
   (7947,'MIKE','CLERK',7900,'18-MAY-85',1500,200,50)
   (7954,'BILL','MANAGER',7782,'20-FEB-81',1000,0,NULL)

: First complete the queries from the Labsheet-4, if anything left over and you could not cover in last class.

In this Lab session-5, ask students to write SQL queries for the following and execute.

1. Get maximum, minimum and average salary for dept no.10.
2. Print the total number of emplyees in dept 10, and 20 (separately).
3. Print total salary paid to clerks,
4. For each job print job, number of employees and average salary
5. Get eid, ename, dname for those whose names end with 'EN' or 'ER'.
6. Perform explicit join, left outer join, right outer join, full outer join on EMP and DEPT and observe the results.
7. Get the eid, ename and manager name for the employees working in SALES department.
8. For each department print dnum, dname , and number of employees whose salary is greater than 1300.
9. Print eid, ename for those who are managing at least one employee.
10. For each employee print eid, ename and the number of employees he manages (only for those managing at least one employee).
11. Get eid, ename for those who do not get any commission.
12. Get eid, ename for those not working with sales dept.
13. Get eid, ename afor those not working in company located in BOSTON.

Views:

Ask students to create view   EMP_DEPT (eno, ename, job, dname, dloc)

And now ask them to write following queries on the view.

1. Get eno, ename, and dlocation for all employees.
2. Get eno and ename for those whose dept located in BOSTON.

    And may try updates on view and observe how DBMS responds.

Get