DBS Labsheet-5 (CMS)

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We 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)

We 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)

Note: 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, students will learn to write SQL queries that use-

- a. Grouping and Having clauses
- b. Aggregate operations (sum, min, max, avg, and count)
- c. EXISTS/NOT EXISTS
- d. IN / NOT IN
- e. Explicit Joins (inner and all outer joins)
- f. Joining two instances of same table
