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Class Test 07

Subquery

1. Display the employee names who joined before ALLEN.

2. Display the employee names that earn a salary that is lower than the salary of all SALESMAN.

3. Display the employee names that earn a salary that is lower than the salary of any SALESMAN.

4. Display the employee names who get the department wise lowest amount of salary.

5. Display the employee names who earn less than employee SMITH.

6. Insert the following row into emp table:

   INSERT INTO EMP VALUES(1,'ANGELA','TEACHER',7698,NULL,4500,NULL,20);

   After solving i. and ii. delete the row you just inserted from the emp table.

   I. Using pairwise comparisons display the name, department number, salary, manager ID and job of any employee whose department number and manager ID match both the department number and manager ID of those employee who work as CLERK.
   II. Using non pairwise comparisons display the name, department number, salary, manager ID and job of any employee whose department number and manager ID match any department number and any manager ID of those employee who work as CLERK.

1) SELECT ENAME FROM EMP
WHERE HIREDATE < (SELECT HIREDATE FROM EMP WHERE ENAME = 'ALLEN');

2) SELECT ENAME FROM EMP
WHERE SAL < ALL (SELECT SAL FROM EMP
WHERE JOB = 'SALESMAN');

3) SELECT ENAME FROM EMP
WHERE SAL < ANY (SELECT SAL FROM EMP
WHERE JOB = 'SALESMAN');

4) SELECT ENAME, DEPTNO FROM EMP
WHERE (SAL, DEPTNO) IN (SELECT MIN(SAL), DEPTNO FROM EMP
GROUP BY DEPTNO);

5) SELECT ENAME, SAL FROM EMP
WHERE SAL < ALL (SELECT MIN(SAL) FROM EMP
WHERE ENAME = 'SMITH');

6)

I) SELECT ENAME, DEPTNO, SAL, MGR, JOB FROM EMP
WHERE (DEPTNO, MGR) IN (SELECT DEPTNO, MGR FROM EMP WHERE JOB='CLERK')
AND JOB<>'CLERK';

II) SELECT ENAME, DEPTNO, SAL, MGR, JOB FROM EMP WHERE DEPTNO IN
(SELECT DEPTNO FROM EMP WHERE JOB='CLERK') AND MGR IN (SELECT MGR FROM
EMP WHERE JOB='CLERK') AND JOB<>'CLERK';

DELETE FROM EMP WHERE EMPNO=1;