

Wednesday, April 17, 2024

## Experiment No. – 06

a) List the employees earns more than any employee in CHICAGO.

```
SQL> SELECT * FROM emp1 e1 WHERE e1.sal > (SELECT MAX(e2.sal) FROM emp1 e2 INNER JOIN dept d ON e2.deptno = d.deptno WHERE d.loc = 'CHICAGO');
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7902	FORD	ANALYST	7566	03-DEC-81	3000		20

b) List the name of the employee who works in the same department as SMITH.

```
SQL> SELECT ename,deptno FROM emp1 WHERE deptno = (SELECT deptno FROM emp1 WHERE ename = 'SMITH');
```

ENAME	DEPTNO
SMITH	20
JONES	20
SCOTT	20
ADAMS	20
FORD	20

c) List the name, employee number, their manager name and manager number.

```
SQL> SELECT e1.ename AS EName, e1.empno AS Empno, e2.ename AS ManagerName, e1.mgr AS ManagerNumber FROM emp1 e1 LEFT JOIN emp1 e2 ON e1.mgr = e2.empno;
```

ENAME	EMPNO	MANAGERNAM	MANAGERNUMBER
SCOTT	7788	JONES	7566
FORD	7902	JONES	7566
ALLEN	7499	BLAKE	7698
WARD	7521	BLAKE	7698
MARTIN	7654	BLAKE	7698
TURNER	7844	BLAKE	7698
JAMES	7900	BLAKE	7698
MILLER	7934	CLARK	7782
ADAMS	7876	SCOTT	7788
JONES	7566	KING	7839
BLAKE	7698	KING	7839
CLARK	7782	KING	7839
SMITH	7369	FORD	7902
KING	7839		

14 rows selected.

d) List the name of the employee job is same as 'CLARK'.

```
SQL> SELECT ename,job FROM emp1 WHERE job = (SELECT job FROM emp1 WHERE ename = 'CLARK');
```

ENAME	JOB
JONES	MANAGER
BLAKE	MANAGER
CLARK	MANAGER

e) List the name of employee whose salary is more than 'TURNER'.

```
SQL> SELECT ename,sal FROM emp1 WHERE sal>(SELECT sal FROM emp1 WHERE ename = 'TURNER');
```

ENAME	SAL
ALLEN	1600
JONES	2975
BLAKE	2850
CLARK	2450
SCOTT	3000
KING	5000
FORD	3000

7 rows selected.

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- f) List the name of employee who joined after 'ALLEN'.

```
SQL> SELECT ename,hiredate FROM emp1 WHERE hiredate>(SELECT hiredate FROM emp1 WHERE ename = 'ALLEN');
```

ENAME	HIREDATE
WARD	22-FEB-81
JONES	02-APR-81
MARTIN	28-SEP-81
BLAKE	01-MAY-81
CLARK	09-JUN-81
SCOTT	09-DEC-82
KING	17-NOV-81
TURNER	08-SEP-81
ADAMS	12-JAN-83
JAMES	03-DEC-81
FORD	03-DEC-81
MILLER	23-JAN-82

12 rows selected.

- g) Display the name of the department whose job is 'SALESMAN'.

```
SQL> SELECT DISTINCT d.dname AS DepartmentName FROM emp1 e INNER JOIN dept d ON e.deptno = d.deptno WHERE e.job = 'SALESMAN';
```

DEPARTMENTNAME
SALES

- h) Display the name of the department in which 'FORD' works.

```
SQL> SELECT DISTINCT d.dname AS DepartmentName FROM emp1 e INNER JOIN dept d ON e.deptno = d.deptno WHERE e.ename = 'FORD';
```

DEPARTMENTNAME
RESEARCH

- i) Display the name of the department whose salary is maximum.

```
SQL> SELECT DISTINCT d.dname AS DepartmentName ,sal FROM emp1 e INNER JOIN dept d ON e.deptno = d.deptno WHERE sal = (select max(sal) from emp1);
```

DEPARTMENTNAME	SAL
ACCOUNTING	5000

SQL> |

- j) Display the name of the city(location) in which 'SMITH' works.

```
SQL> SELECT d.loc AS City FROM emp1 e INNER JOIN dept d ON e.deptno = d.deptno WHERE e.ename = 'SMITH';
```

CITY
DALLAS

- k) Display the name of the city in which the manager works.

```
SQL> SELECT distinct d.loc AS City FROM emp1 e INNER JOIN dept d ON e.mgr= d.deptno;
```

no rows selected

SQL> |

- l) Display the grade of the employee named 'MARTIN'.

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## Experiment No. – 06

m) List the employees earns more than every employee in 'DALLAS'.

```
SQL> SELECT e.ename AS Employee_Name ,e.sal FROM emp1 e WHERE e.sal > ALL (SELECT sal FROM emp1 WHERE deptno = (SELECT d
eptno FROM dept WHERE loc = 'DALLAS'));
```

EMPLOYEE_N	SAL
KING	5000

n) Display the name of the department which has no employee.

```
SQL> SELECT d.dname AS DepartmentName FROM dept d WHERE d.deptno NOT IN (SELECT deptno FROM emp1);
```

DEPARTMENTNAME
OPERATIONS

o) List name, employee number and the name, employee number of their managers' manager .

```
SQL> SELECT e1.ename AS EmployeeName,
2         e1.empno AS EmployeeNumber,
3         e2.ename AS ManagerName,
4         e2.empno AS ManagerNumber
5 FROM emp1 e1
6 INNER JOIN emp1 e2 ON e1.mgr = e2.empno
7 INNER JOIN emp1 e3 ON e2.mgr = e3.empno;
```

EMPLOYEEENA	EMPLOYEENUMBER	MANAGERNAM	MANAGERNUMBER
SCOTT	7788	JONES	7566
FORD	7902	JONES	7566
ALLEN	7499	BLAKE	7698
WARD	7521	BLAKE	7698
MARTIN	7654	BLAKE	7698
TURNER	7844	BLAKE	7698
JAMES	7900	BLAKE	7698
MILLER	7934	CLARK	7782
ADAMS	7876	SCOTT	7788
SMITH	7369	FORD	7902

10 rows selected.

p) list the name of the employee who joined in the same year of 'ADAMS'.

```
SQL> SELECT e1.ename AS EmployeeName,hiredate FROM emp1 e1 WHERE EXTRACT(YEAR FROM e1.hiredate) = (SELECT EXTRACT(YEAR FROM e2.hiredate) FROM emp1
e2 WHERE e2.ename = 'ADAMS');
```

EMPLOYEEENA	HIREDATE
ADAMS	12-JAN-83

q) list the name of the employee who joined in the same month of 'BLAKE'.

```
SQL> SELECT e1.ename AS EmployeeName,hiredate FROM emp1 e1 WHERE EXTRACT(month FROM e1.hiredate) = (SELECT EXTRACT(month FROM e2.hiredate) FROM emp1
e2 WHERE e2.ename = 'BLAKE');
```

EMPLOYEEENA	HIREDATE
BLAKE	01-MAY-81

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r) list the name of the employee who joined in the same date of 'ADAMS'.

```
SQL> SELECT e1.ename AS EmployeeName ,hiredate
  2 FROM emp1 e1
  3 WHERE EXTRACT(YEAR FROM e1.hiredate) = (SELECT EXTRACT(YEAR FROM e2.hiredate)
  4 FROM emp1 e2
  5 WHERE e2.ename = 'ADAMS')
  6 AND EXTRACT(MONTH FROM e1.hiredate) = (SELECT EXTRACT(MONTH FROM e2.hiredate)
  7 FROM emp1 e2
  8 WHERE e2.ename = 'ADAMS')
  9 AND EXTRACT(DAY FROM e1.hiredate) = (SELECT EXTRACT(DAY FROM e2.hiredate)
 10 FROM emp1 e2
 11 WHERE e2.ename = 'ADAMS');
```

EMPLOYEEENA	HIREDATE
ADAMS	12-JAN-83

s) List the name of the department who gets commission.

```
SQL> SELECT DISTINCT d.dname FROM dept d WHERE d.deptno IN (SELECT DISTINCT e.deptno FROM emp1 e WHERE e.mgr is not null);
```

DNAME
RESEARCH
SALES
ACCOUNTING